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.

University of Central Florida

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.
Dear UCF Students and Prospective Students:

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

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

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

You have my best wishes for success and my assurance that UCF faculty and staff are committed to helping you complete your degree so that you can join a proud group of over 129,500 alumni.

Cordially yours,

John C. Hitt
President
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Assistant Vice Provost, Planning and Evaluation ............................................................................ Denise L. Young
### 2005 - 2006 FALL / SPRING ACADEMIC CALENDARS

<table>
<thead>
<tr>
<th>Event</th>
<th>Fall 2005</th>
<th>Spring 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for Graduate International students</td>
<td>Jan. 15</td>
<td>July 1</td>
</tr>
<tr>
<td>Application deadline for Undergraduate International students</td>
<td>March 1</td>
<td>Sept. 1</td>
</tr>
<tr>
<td>Application deadline for all New Undergraduate Freshmen Applicants</td>
<td>May 1</td>
<td>Nov. 1</td>
</tr>
<tr>
<td>Application deadline for New Undergraduate Transfers</td>
<td>July 1</td>
<td>Nov. 1</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>July 15</td>
<td>Nov. 15</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>due in college advising office&lt;sup&gt;1&lt;/sup&gt;</td>
<td>March 7 - Aug. 5</td>
<td>Oct. 17 - Dec. 2</td>
</tr>
<tr>
<td>Residence halls open</td>
<td>Aug. 17 (11:00 a.m.)</td>
<td>Jan. 6 (1:00 p.m.)</td>
</tr>
<tr>
<td>Registration time for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>Aug. 19</td>
<td>Jan. 6</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>Aug. 19</td>
<td>Jan. 6</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Aug. 22</td>
<td>Jan. 9</td>
</tr>
<tr>
<td>Late Registration&lt;sup&gt;2&lt;/sup&gt; and Add/Drop&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Aug. 22-26</td>
<td>Jan. 9-13</td>
</tr>
<tr>
<td>Last day for full refund&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Aug. 26</td>
<td>Jan. 13</td>
</tr>
<tr>
<td>Grade Forgiveness deadline&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Aug. 26</td>
<td>Jan. 13</td>
</tr>
<tr>
<td>Last day to mail payment (postmarked)</td>
<td>Sep. 1</td>
<td>Jan. 19</td>
</tr>
<tr>
<td>Payment deadline&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Sep. 2</td>
<td>Jan. 20</td>
</tr>
<tr>
<td>CLAST test (register by September 2/Jan. 20)</td>
<td>Oct. 1</td>
<td>Feb. 18</td>
</tr>
<tr>
<td>Withdrawal deadline&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Oct. 14</td>
<td>Mar. 3</td>
</tr>
<tr>
<td>VA deferral payment deadline&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Nov. 18</td>
<td>Apr. 7</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Dec. 3</td>
<td>Apr. 24</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>Dec. 5-10</td>
<td>Apr. 25 - May 1</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>Dec. 11</td>
<td>May 2</td>
</tr>
<tr>
<td>Commencement</td>
<td>Dec. 12-13</td>
<td>May 4-6</td>
</tr>
<tr>
<td>Grades due in Registrar’s Office</td>
<td>Dec. 14</td>
<td>May 4</td>
</tr>
<tr>
<td>Grades Available on MyUCF (begins 9:00 a.m.)</td>
<td>Dec. 16</td>
<td>May 6</td>
</tr>
</tbody>
</table>

**NOTE:** Dates are subject to change. Consult the Schedule Web Guide and online Academic Calendar (www.ucf.edu/info) for information. All undergraduate degree-seeking students are required to attend Orientation prior to registration. Information on Orientation is mailed to all students upon acceptance to the University. If possible, examinations should not be scheduled on days or during times of religious holidays. Students are expected to notify their instructor in advance if they intend to observe a holy day of their religious faith. For additional information, contact the Office of Diversity Initiatives (Mht 329) at 407-823-6479.

<sup>1</sup> Ends at 5:00 p.m. on last day.
<sup>2</sup> $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.
<sup>3</sup> $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date. 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>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Day Holiday</td>
<td>Sep. 5, 2005</td>
</tr>
<tr>
<td>Homecoming Week (classes still held)</td>
<td>Oct. 31 - Nov. 5, 2005</td>
</tr>
<tr>
<td>Veteran’s Day Holiday</td>
<td>Nov. 11, 2005</td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>Nov. 24-26, 2005</td>
</tr>
<tr>
<td>Martin Luther King Jr. Holiday</td>
<td>January 16, 2006</td>
</tr>
<tr>
<td>Spring Break - Holiday</td>
<td>March 13-18, 2006</td>
</tr>
<tr>
<td>Founders Day Honors Convocation (classes still held)</td>
<td>April 5, 2006</td>
</tr>
</tbody>
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<thead>
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<th>Summer 2006</th>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
<th>Session D</th>
</tr>
</thead>
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<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 15</td>
<td>April 15</td>
<td>April 15</td>
<td>April 15</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office</td>
<td>Mar. 6 - April 24</td>
<td>Mar. 6 - April 24</td>
<td>Mar. 6 - April 24</td>
<td>Mar. 6 - April 24</td>
</tr>
<tr>
<td>Registration for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>May 12</td>
<td>June 23</td>
<td>May 12</td>
<td>May 12</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>May 12</td>
<td>June 23</td>
<td>May 12</td>
<td>May 12</td>
</tr>
<tr>
<td>Residence halls open (11:00 a.m.)</td>
<td>May 14</td>
<td>June 25</td>
<td>May 14</td>
<td>May 14</td>
</tr>
<tr>
<td>Classes begin</td>
<td>May 15</td>
<td>June 26</td>
<td>May 15</td>
<td>May 15</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>May 15-19</td>
<td>June 26-30</td>
<td>May 15-19</td>
<td>May 15-19</td>
</tr>
<tr>
<td>Fees due; Last day for full refund</td>
<td>May 26, 2006</td>
<td>Students registering from 3/27/06 through 5/19/06</td>
<td>July 7</td>
<td>Students registering for B only 5/20 through 6/30</td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>May 19</td>
<td>June 30</td>
<td>May 19</td>
<td>May 19</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>June 2</td>
<td>July 14</td>
<td>June 23</td>
<td>June 16</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>July 28</td>
<td>July 28</td>
<td>July 28</td>
<td>July 28</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete grades</td>
<td>June 23</td>
<td>August 4</td>
<td>August 4</td>
<td>July 14</td>
</tr>
<tr>
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<td>June 23</td>
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<td>August 5</td>
<td>August 5</td>
<td>July 15</td>
</tr>
<tr>
<td>Grades due in Registrar’s Office</td>
<td>June 28</td>
<td>August 9</td>
<td>August 9</td>
<td>July 19</td>
</tr>
<tr>
<td>Grades Available on My UCF (begins 9:00 a.m.)</td>
<td>June 29</td>
<td>August 11</td>
<td>August 11</td>
<td>July 20</td>
</tr>
<tr>
<td>Commencement</td>
<td>August 5</td>
<td>August 5</td>
<td>August 5</td>
<td>August 5</td>
</tr>
</tbody>
</table>

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

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

1. Ends at 5:00 p.m. on last day
2. Summer B payment deadline for all students who register 3/27 - 5/19; Summer B payment deadline for all students who register May 20 - June 30.
3. $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.
4. Incomplete grades must be removed within one year of the last day of the term or prior to graduation from the University, whichever comes first, else they will change to "F."
5. Summer Final Exams are given during the last class meeting

### University Holidays and Special Events

- Memorial Day Holiday ................. May 29, 2006
- Independence Day Holiday ............. July 4, 2006
Administrative Procedures Act Policy Statement
The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this Undergraduate Catalog. The Undergraduate Catalog is published once a year and cannot always reflect new and modified regulations. Statements in this Undergraduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida. While every effort will be made to accommodate the curricular needs of students, limited resources may prevent the University from offering all required courses in each semester or in day and evening sections.

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

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

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

1. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual’s employment or enrollment;
2. Submission to or rejection of such conduct by an individual is used as the basis for employment or enrollment decisions affecting such individual; or
3. Such conduct has the purpose or effect of substantially interfering with an individual’s work performance or enrollment, or creating an intimidating, hostile, or offensive working or academic environment. Sexual harassment is strictly prohibited. Occurrences will be dealt with in accordance with the guidelines above and University rules. Employees, students, or applicants for employment or admission may obtain further information on this policy, including grievance procedures, from the Equity Coordinator. The Director of the Office of Equal Opportunity and Affirmative Action Programs is the campus Equity Coordinator responsible for concerns in all areas of discrimination. The office is located on the main campus, in Millican Hall 330, Orlando, FL 32816-0030. The phone number is 407-UCF-1EEO. Policies and guidelines are available online at http://pegasus.cc.ucf.edu/~eeo/home.html

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

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

Guidelines
The sale and service of alcoholic beverages to persons younger than 21 years of age is prohibited. Possession or consumption of alcoholic beverages is prohibited by persons younger than 21 years of age.
Possession and consumption of alcoholic beverages in open or unsealed containers is prohibited except in designated areas or as approved with special events.

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

Student organizations may develop more stringent regulations regarding alcohol use.

**Locations**

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

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

**Approval Procedures: Student Groups**

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

**Approval Procedures: Non-Student Groups**

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


**Academic Behavior Standards**

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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of 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 without the express written permission of the University and the Instructor is a violation of this rule.

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

**Student Use Of Technology**

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

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

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

**Student Responsibility for University Communication**

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

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

It is critical that students maintain and regularly check their preferred e-mail account for official announcements and notifications.

Communications sent to an address on record will be deemed adequate notice. The University does not accept responsibility if official communication is rejected or fails to reach a student who has not notified the University of a change of preferred e-mail or postal mailing address.

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

Students can update their contact information online at https://My.ucf.edu.

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

**Complaint Policy**

The University of Central Florida supports the right of students to file grievances, lodge complaints, and make appeals in a safe environment free of fear, retaliation, or other adverse consequence. The University has a number of offices and committees that are responsible for implementing the institution’s established procedures for addressing written academic and non-academic student complaints. In most cases, the recommended strategy for complaints of any nature is to ask the concerned individual to first contact the person or office most directly connected to the issue, unless there are compelling reasons not to do so. If the concerned individual does not want to contact a faculty or staff member directly, he or she begins with the next highest level of authority, which typically is the department chair or director. If the problem or complaint is unresolved or the individual is not satisfied with the resolution, he or she may file a written grievance or appeal. Specific procedures included in specific sections of this catalog and the Golden Rule.
UNIVERSITY OF CENTRAL FLORIDA

Accreditation

The University of Central Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award degrees at the associate, baccalaureate, master’s, and doctoral levels. At the undergraduate level, the following programs (disciplines) have been granted accreditation:

<table>
<thead>
<tr>
<th>College/Discipline</th>
<th>Accrediting Body</th>
</tr>
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<tbody>
<tr>
<td>Arts and Sciences</td>
<td>American Chemical Society (ACS)</td>
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<td></td>
<td>National Association of Schools of Music (NASM)</td>
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<tr>
<td>Business Administration</td>
<td>The Association to Advance Collegiate Schools of Business (AACSBB)</td>
</tr>
<tr>
<td>(all disciplines)</td>
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</tr>
<tr>
<td>Education</td>
<td>State Accreditation-Florida Department of Education; National Council for Accreditation of Teacher Education (NCATE)</td>
</tr>
<tr>
<td>(all disciplines)</td>
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</tr>
<tr>
<td>Engineering and</td>
<td>Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)</td>
</tr>
<tr>
<td>Computer Science</td>
<td>111 Market Place, #1050</td>
</tr>
<tr>
<td>Aerospace, Civil,</td>
<td>Baltimore, MD 21202-4012</td>
</tr>
<tr>
<td>Computer, Electrical,</td>
<td>Telephone: 410-347-7700</td>
</tr>
<tr>
<td>Environmental, Industrial,</td>
<td>Fax: 410-625-2238</td>
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<td>and Mechanical Eng</td>
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<tr>
<td>Computer Science</td>
<td>Computing Accreditation Commission (CAC) of ABET</td>
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<tr>
<td>Engineering Technology</td>
<td>Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)</td>
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<tr>
<td>(Electrical Engineering</td>
<td>111 Market Place, #1050</td>
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<td>Technology and</td>
<td>Baltimore, MD 21202-4012</td>
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<tr>
<td>Engineering Technology)</td>
<td>Telephone: 410-347-7700</td>
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<tr>
<td>Health and Public Affairs</td>
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<tr>
<td>Athletic Training</td>
<td>Joint Review Committee on Educational Programs in Athletic Training (JRC-AT) in conjunction with the Commission on Accreditation of Allied Health Education Programs</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 (CAAAHEP)</td>
</tr>
<tr>
<td>Health Information</td>
<td>American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAAHEP)</td>
</tr>
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<td>Management</td>
<td></td>
</tr>
<tr>
<td>Medical Laboratory Sciences</td>
<td>National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)</td>
</tr>
<tr>
<td>Nursing</td>
<td>American Association of Colleges of Nursing/ Commission on Collegiate Nursing Education (CCNE); Florida Board of Nursing</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</td>
<td>Accreditation Commission for Programs in Hospitality Administration (AICPA)</td>
</tr>
<tr>
<td>Hospitality Management</td>
<td>Accreditation Commission for Programs in Hospitality Administration (AICPA)</td>
</tr>
<tr>
<td>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.</td>
<td></td>
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</tbody>
</table>

The University

The University of Central Florida is one of the fastest growing, metropolitan research universities in the country—and it is located in Orlando, one of the most dynamic metropolitan areas in the U.S. With a total enrollment of more than 42,000, UCF is now one of the largest universities in the nation.

The UCF community includes an international student body, 129,500 alumni, and 8,400 faculty and staff. The University offers 54 bachelor’s degrees, 64 master’s degrees, three specialist degrees and 23 Ph.D. degrees as well as more than 65 graduate certificate programs. In addition to offering classes on the 1,415-acre main campus in Orlando, UCF’s regional campuses serve students throughout an 11-county area in Central Florida. More than 13,000 students are enrolled in online courses.

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

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

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

Online@UCF, The Virtual Campus

http://online.ucf.edu/

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) by the Instruction Mode found on the class detail panel for each class. Web-related instruction modes are MIXED-MODE/REDUCED SEAT TIME (M). These courses include electronic media-based instruction that substitutes for some classroom time (reduced seat time). WIDE WORLD 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. Refer to the Learning Online website (http://learn.ucf.edu/) for additional information.

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

UCF’s virtual campus is supported and facilitated by the Center for Distributed Learning. The Center’s mission is to provide support to students, faculty, and staff in the development and planning of distributed learning courses and programs. The Center serves as a clearinghouse for processes and resources, providing planning and marketing support for off-campus and distributed learning credit programs. The Center also coordinates the University’s standards and accreditation changes resulting from web-based instruction.

UCF Regional Campuses
The University of Central Florida also offers a number of programs through UCF Regional Campuses in your neighborhood. 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. and limited A.S. degrees to upper-level division work on a baccalaureate degree. Programs include 27 Bachelor’s programs, 23 minors and certificates, 15 master’s degrees, 9 Graduate Certificates, and 1 Doctoral program with each of the UCF Colleges represented within the system. With close proximity to Orlando, resources are available at UCF and the UCF Regional Campuses, such as admissions, registration, financial aid, advising, student clubs and organizations, disability services, veteran’s affairs, "smart classrooms," libraries, computer labs, and more.

UCF Regional Campuses provide a wide variety of learning styles and schedules, including web class availability. Admissions, Registration, Financial Assistance and Advising professionals are located at the following campuses: UCF at Cocoa, UCF at Daytona Beach, and UCF at South Lake. In addition, advising is provided through UCF at Sanford/Lake Mary and UCF at Palm Bay. Times and dates for all courses are listed online prior to registration each term and all registration periods correspond to the overall UCF schedule. All locations provide students with an opportunity to enroll in selected courses (junior and senior level) contributing to undergraduate and graduate degrees in a variety of disciplines within the university. In response to community needs, the University of Central Florida also offers programs and courses in other locations. UCF Orlando students may register full time or part time for courses at any of the locations without additional paperwork. For the most current information on any of the multiple UCF Regional Campus locations, programs or class schedules, check the website at www.regionalcampuses.ucf.edu

Administration
UCF Regional Campuses Central Administration
Millican Hall, MH 331
407-823-4547

Vice Provost, UCF Regional Campuses
David Harrison

Asst. Vice President, Central Region Director
David Meaor

Asst. Vice President, Eastern Region Director
Bernard Jensen

Assoc. Vice President, Southern Region Director
James A. Drake

Asst. Vice President, Western Region Director
Cecilia Rivers

Administrative Assistant
Barbara Rubrecht

Assistant to the Vice Provost
Melanie Woods

Coordinator, Statistical Research
Jeanne Walker

Academic Programs
Director, Academic Planning
Bill Wetherell

Office Manager
Valerie Brackman

Instructional Facilities Scheduler
Barbara Smith

Advising
Director, Advising
Judy Boyte

Budget
Interim Asst. Director, Academic Support Services
Vicky Matthews

Coord., Academic Support Services
Diana-Joy Colarusso

Budget Specialist
Bruce Whisler

Communications
Associate Director, University Relations
Karen Jans

Web Administrator
Tony Recascino

Graphic Designer
Mary Lou Wade

Technology Services
Interim Director, Technology
Kirk Henry

Central Region:
UCF Downtown
26 West Pine St.
Orlando, Fl 32801-2612
For information: 407-317-7700

Assistant Vice President, Central Region Director
David Mealor

UCF at Sanford/Lake Mary
For information: 386-506-4021

Asst. Vice President, Eastern Region Director
Bernard Jensen

Eastern Region Associate Director
David Laney

Coordinator, Admissions, Registration, Records
Tena Harris

Program Officer, Admissions, Registration
Sheri Newby-Dunn

Program Assistant, Admissions, Registration
LaShawn Glaspie

Coordinator, Financial Aid
Charlene Driver

Assistant Director, Academic Support Services
Keith Branhm

Coordinator, Academic Support Services
Learnd Davis

UCF Regional Campuses Middle Campus
407-823-7700

Coordinator, Academic Support Services
Raphael Robinson

Coordinator, Academic Support Services
Cindy Thomas

Director, Campus Life
Diana Weidman

Computer Technology
Germaine G. Washington

UCF at Dayton Beach
Undergraduate Degree Programs
College of Arts and Sciences
Liberal Studies (B.A., B.S.)
Photography (B.S.)
Political Science (B.A.)
Psychology (B.A., B.S.)
Social Sciences (B.S.)
Sociology (B.A.)

College of Business Administration
General Business Administration (B.S.B.A.)
Accounting (B.S.B.A.)*
Economics (B.S.B.A.)*
Finance (B.S.B.A.)*
Management (B.S.B.A.)*
Management Information Systems (B.S.B.A.)*
Marketing (B.S.B.A.)*

College of Education
Elementary Education (B.S.)
Exceptional Education (B.S.)
Technical Education and Industry Training (B.S.) (Web-based)

College of Health and Public Affairs
Criminal Justice (B.A., B.S.)
Health Sciences (Generalist Track) (B.S.)
Health Services Administration (B.S.) (Web-based)
Legal Studies (B.A., B.S.)
Nursing (R.N. to B.S.N.)

Undergraduate Minors and Certificates
Anthropology in Multicultural Studies
Behavioral Forensics (Certificate)
Business (For Non-Business Majors Only)
Criminal Justice
English - Technical Writing
Environmental Studies
Exceptional Education
Health Sciences
Health Services Administration (Web-based)
University of Central Florida

RESOURCES & DEPARTMENTS

History
Legal Studies
Marketing
Philosophy
Political Science
Psychology
Religious Studies
Social Sciences - Interdisciplinary
Sociology
Women's Studies (Minor & Certificate)

Graduate Degree Programs
Business Administration (M.B.A.)*
Criminal Justice (M.S.)
Educational Leadership (M.Ed., M.A.)
Elementary Education (M.A.)
Exceptional Education (M.Ed., M.A.)
Health Sciences: Health Services Administration (M.S.)
Nursing (M.S.N.)
Psychology, Clinical (M.A.)
Public Administration (M.P.A.)
Social Work (M.S.W.)
Technical Education and Industry Training (Web-based) (M.Ed., M.A.)

Graduate Certificate Programs
Corrections Leadership
Domestic Violence
ESOL Endorsement K-12
Juvenile Justice Leadership
Professional Writing
Public Administration

Doctoral Degree Program
Educational Leadership (Ed.D.)

UCF at Sanford/Lake Mary

Undergraduate Degree Programs
College of Arts and Sciences
Liberal Studies (B.A., B.S.)
Psychology (B.A.)

College of Education
Elementary Education (B.S.)

College of Health and Public Affairs
Criminal Justice (B.A., B.S.)
Legal Studies (B.A., B.S.)
Nursing (B.S.N., R.N. to B.S.N.)

Undergraduate Minors and Certificates
Business (for non-business majors only)
Criminal Justice
Legal Studies
Psychology
Sociology

UCF at DeLand

Undergraduate Degree Programs
College of Education
Early Childhood Education (B.S.)

Southern Region:
UCF at Cocoa (Full-Service Campus)
1519 Clearlake Rd., Cocoa, Fl 32922

UCF at Melbourne
UCF at Palm Bay
For information: 321-433-7800

Assoc. Vice President, Southern Region Director
Southern Region Associate Director
Assoc. Director, Head of Partnership Library Services
Assist. Director, Academic Support Svcs
Coordinator, UCF Palm Bay
Coordinator, Admissions, Registration, Records
Interim Director, Campus Life
BCC/UCF Computer Application Specialist
Coordinator, Ed Media/TV
Coordinator, Academic Support Services
Coordinator, Academic Support Services

UCF at Cocoa

Undergraduate Degree Programs
College of Arts and Sciences
History (B.A.)

Liberal Studies (B.A., B.S.)
Psychology (B.A., B.S.)
Sociology (B.A.)

College of Business Administration
General Business Administration (B.S.B.A.)
Accounting (B.S.B.A.)*
Economics (B.S.B.A.)*
Finance (B.S.B.A.)*
Management (B.S.B.A.)*
Management Information Systems (B.S.B.A.)*
Marketing (B.S.B.A.)*

College of Education
Early Childhood Education (B.S.)
Elementary Education (B.S.)
Exceptional Education (B.S.)

College of Engineering and Computer Science
Engineering Technology - Operations (B.S.E.T.)
Information Systems Technology (B.S.)

College of Health and Public Affairs
Communicative Disorders (B.A., B.S.)
Criminal Justice (B.A., B.S.)
Health Services Administration (B.S.)
Legal Studies (B.A., B.S.)
Nursing (B.S.N., R.N. to B.S.N.)

Undergraduate Minors and Certificates
Anthropology in Multicultural Studies
Business (For Non-Business Majors Only)
Communicative Disorders
Criminal Justice
Exceptional Education
Health Sciences Administration (Web-based)
Interpersonal Communication
Legal Studies
Organizational Communication
Political Science
Psychology
Religious Studies
Social Sciences - Interdisciplinary
Sociology
Women's Studies (Minor & Certificate)

Graduate Degree Programs
Applied Sociology
Business Administration (M.B.A.)*
Criminal Justice
Educational Leadership
Engineering FEEDS/ITV
Elementary Education
Exceptional Education
Industrial Engineering and Management Systems
Public Administration
Technical Education and Industry Training (Web-based) (M.Ed., M.A.)

Graduate Certificates
Domestic Violence
ESOL Endorsement K-12
Initial Teacher Professional Preparation
Pre-K Handicapped Endorsement
Public Administration
Teaching English as a Foreign Language

UCF at Palm Bay

Undergraduate Degree Programs
College of Arts and Sciences
Psychology (B.A., B.S.)
Liberal Studies (B.A., B.S.)

College of Education
Early Childhood Education (B.S.)

College of Health and Public Affairs
Communicative Disorders (B.A., B.S.)
Health Services Administration (B.S.) (Web-based)
Undergraduate Minors and Certificates
Criminal Justice
Organizational Communication
Sociology

Graduate Degree Programs
Health Sciences: Health Services Administration

Western Region:
UCF at South Lake (Full-Service Campus)
1250 N. Hancock Rd.
Clermont, FL 34711
UCF at Leesburg
UCF at MetroWest
UCF at Ocala
UCF at Osceola
UCF at South Orlando
For information: 352-536-2113
Asst. Vice President, Western Region Director
Western Region Associate Director
Coordinator, Admissions and Registration
Coordinator, Academic Support Services
Coordinator, Academic Support Services
Coordinator, Ed Media/ITV (Telecomm'ns)

Cecelia Rivers
Edgar Martinez
Christie Strange
Tanya Armstrong
Selena Forester
Jason Mayer

UCF at South Lake
Undergraduate Degree Programs
College of Arts and Sciences
Liberal Studies (B.A., B.S.)
Psychology (B.A.)

College of Business Administration
General Business Administration (B.S.B.A.)

College of Education
Early Childhood Education (B.S.)
Elementary Education (B.S.)
Sports and Fitness (B.S.)

College of Health and Public Affairs
Criminal Justice (B.A., B.S.)

Undergraduate Minors and Certificates
Business (For Non-Business Majors)
Psychology

UCF at Leesburg
Undergraduate Degree Programs
College of Health and Public Affairs
Nursing (R.N. to B.S.N.) (Web-Based)

Graduate Degree Programs
Public Administration

UCF at Ocala
Undergraduate Degree Programs
College of Arts and Sciences
Psychology (B.A.)

College of Education
Elementary Education (B.S.)

College of Health and Public Affairs
Nursing (R.N. to B.S.N.) (Web-based)

UCF at Osceola
Undergraduate Degree Programs
College of Education
Elementary Education (B.S.)
Exceptional Education (B.S.)

UCF at South Orlando
Undergraduate Degree Programs
College of Business Administration
General Business Administration (B.S.B.A.)

*Admission by cohort only. Please see advisor for additional information.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

University Ombud Officer
The Office of the Ombuds Officer provides members of the University community assistance and advice regarding concerns related to the University. These services are available to every member of the University community: students, staff, faculty, and others. Any type of concern may be brought to the attention of this office: academic, financial, housing, consumer, work-related, or personal. The University Ombuds Officer is a neutral facilitator, and will listen to concerns, help individuals explore options, offer suggestion and advice, and assist in the resolution of the concern. Referral and direction to appropriate individuals and offices, and clarification of University policies and procedures are services of the office. All proceedings in individual cases are services of the office. All proceedings in individual cases are authorized by the complainant, or otherwise required by applicable law, including without limitation, Chapter 119, Florida Statutes. The University Ombuds Office is located in Millican Hall, room 338F. Appointments may be made by calling 407-823-6440.

Office of Undergraduate Studies
Dean: John F. Schell; MH 311, 407-823-4197
This office supports the undergraduate mission of the University, assisting the curriculum development and review, co-curricular planning and programming, and the effectiveness of units and faculty in their effort to provide outstanding undergraduate education.

Academic Services
Associate Dean: David R. Dees; MH 210; 407-823-2691
This office is responsible for administering State of Florida and University academic policies pertaining to academic record changes, curriculum file management, the degree audit program, and University-wide academic policies and graduation requirements. The primary goal of the office is to apply these policies fairly, promptly and evenly according to established guidelines, to provide a prompt response to requests from students, faculty, and staff and to maintain accurate and effective computer records for advisement and graduation certification.

International Services Center
Associate Director: Natavy 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 the federal regulations, so international populations can maintain their status. Services of the International Services Center include issuing necessary CIS documents to facilitate visa issuance abroad, transfer procedures, employment authorization for students and scholars, and H1B visa holders’ immigration advice by professional lawyers, and international taxation 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
The UCF Police Department is a full-service law enforcement agency. The 50 certified police officers provide police services twenty-four hours a day, seven days a week. The Patrol Division patrols the campus on foot, marked patrol cars, canine units, and on marked motorcycles. The Investigations Unit (407-823-5980) consists of five detectives who investigate all unresolved criminal cases.

The Community Relations Unit (407-823-2165) presents crime prevention seminars for property protection and personal safety for the community. The Community Relations Unit also hires and trains students for the Safe Escort Patrol Service (SEPS) 407-823-2424, which is an evening escort service for all individuals on campus (Sunday through Thursday evenings, 7:00 p.m. to 1:00 a.m.). The Victim Services Unit (407-823-6332/6069) provides services for: 1) emotional support and practical assistance; 2) information and referrals; and 3) education. The Parking Services Division (407-823-5812) maintains campus parking and provides assistance to stranded motorists. For more information about parking regulations, online registrations for parking decals, and the UCF Shuttle Program, see their website at http://parking.ucf.edu

UCFPD publishes a complete brochure titled Knight’s Safety Guide. The Knight’s Safety Guide presents an overview of all police services 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. UCFPD wishes everyone a safe day to students and staff. For more information the UCFPD website is http://police.ucf.edu

Information Technologies and Resources
Vice Provost: Joel L. Hartman; MH 350; Phone 407-823-6778
http://reach.ucf.edu/itr
The Division of Information Technologies and Resources has University-wide responsibility for planning, implementation, and support of information technology resources. Units within the Division include the Library, Computer Services, Teledata Services, Instructional Resources, Course Development and Web Services, the Research Initiative for Teaching Effectiveness, and the Center for Distributed Learning. The services and resources of each unit are described in the following sections.

University Libraries
http://library.ucf.edu
Director: Barry B. Baker; LR 512; 407-823-2564
Associate Director for Administrative Services: Frank R. Allen; LR 512; 407-823-2564
Associate Director for Public Services: Margaret K. Scarch; LR 512; 407-823-2564
University Libraries offers a variety of information resources and services. An extensive print resource collection includes 1.5 million volumes, 12,800 journal subscriptions, 2.9 million microforms and 39,000

University Of Central Florida 2005-2006 Undergraduate Catalog
media titles. The libraries' rapidly growing electronic resources include 400 databases, 40,000 e-books, and 5,650 electronic journals. The library is a partial depository for United States and Florida government publications.

The main library is open 105 hours per week. Operating hours are available on the Web site: http://library.ucf.edu or by calling (407) 823-2756. Over 200 computer workstations are available for public use on all five floors of the main campus library, including 35 laptops equipped with wireless cards that can be checked out for use anywhere in the library building. Wireless technology enables patrons who have laptops with wireless cards to connect to the Library's electronic resources and to the Internet from anywhere in the main library building. The Library also has two classrooms outfitted with 41 computer workstations for hands-on instruction in the use of electronic resources. 30 Group study rooms are available to students for collaborative research and study.

WebLUIS, the Library's web-based catalog, can be accessed from any public or home PC. WebLUIS also offers a gateway to hundreds of electronic databases, the catalogs of other state university libraries and the community college system libraries.

For help and advice in the use of the Library and its materials, the Reference Desk is open during most library hours. Librarians are on duty for assistance with selection and use of online and traditional resources, and individual appointments can be made for in-depth research consultation. http://library.ucf.edu/ask/ connects students with Ask a Librarian, where questions are submitted and answered in a real time chat session, by email, or by telephone at (407) 823-2562, or toll-free at (866)271-7569.

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

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

Primary source material from Special Collections supports the research, teaching, and service of the UCF community. These special materials, which can easily replace but are not limited to books, manuscripts, historic public records, ephemera, photographs, and art. The Libraries' digitization projects continue to make more of these exciting and unique materials available on the World Wide Web. The Libraries partners with other university libraries and local institutions to obtain Florida Heritage, similar projects to provide digital access to special and historic images and documents.

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

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

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

**Computer Services and Telecommunications**

**Director:** Robert Yancikello; CSB 305; 407-823-2711
http://www.oir.ucf.edu

The department of Computer Services and Telecommunications (CST) provides a central point of support for all aspects of the university's computing, networking, and telecommunications. Additionally, the department maintains several public workstation labs located throughout campus as well as a professionally staffed computer store that facilitates the purchase of software or hardware at competitive prices.

CST provides and supports application/systems development, document imaging services, web hosting services, email and academic support services as well as Teledata services; including telephone, cable TV and other communication services. For additional information please visit our web site at http://www.compserv.ucf.edu

**Office of Instructional Resources**

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

The Office of Instructional Resources (OIR) supports UCF administrators, faculty, and staff with multimedia design and production, digital media, webcasting, ISDN video conferencing, video streaming, video over IP, interactive video course delivery, video production, audio production, digital photography, graphics, and a full range of multimedia classroom support services. OIR manages UCF's interactive video network, which includes eight origination rooms on the Orlando campus and sixteen receiving rooms at regional campus locations. OIR's facilities include the Digital Image Processing Lab (DIPL), located in the Research Pavilion (Suite 189) 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 Video 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 300 advanced multimedia classrooms and eight interactive video origination classrooms located throughout the campus and our Regional Campus locations.

OIR provides UCF with a full array of distributed-learning delivery systems, including an interactive video network that serves eight rooms on the Orlando campus; UCF at Daytona, UCF at Cocoa, UCF at Palm Bay, UCF at Metrowest (Valencia), UCF at South Lake (Clermont), UCF at Kennedy Space Center, UCF at South Orlando, and other regional locations. OIR provides Ku and C-band satellite reception, cable television delivery on the Orlando campus, ISDN (384k) 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) develops systems and standards to support campus Web development at the University Of Central Florida (UCF). The unit supports major institutional Web initiatives including online learning (http://reach.ucf.edu), UCF's main Web site (http://www.ucf.edu), UCF’s Web portal (http://my.ucf.edu), and special projects such as the AskUCF online Q and A service (http://ask.ucf.edu), and the UCF Virtual Tour (http://www.ucf.edu/vtour). CDWS brings to these projects extensive production resources and a highly skilled in project management, instructional design, digital media, video, news, and Web programming.

CDWS also provides professional development () activities for faculty and staff. Examples include IDL6543 (http://reach.ucf.edu/~id6l6543), ADL5000 (http://reach.ucf.edu/~adl5000), and the WebCT Academy (http://reach.ucf.edu/~webct411).

CDWS offers student support through the Learning Online Web site (http://learn.ucf.edu), and faculty support through the Teaching Online Web site (http://teach.ucf.edu). UCF students play an active role in supporting CDWS projects. The Techrangers, a student Web programming team, build online courses and other Web projects while conducting Web related research and development activities.
Intercollegiate Athletics
Programs in Intercollegiate Athletics are coordinated by coaches and staff of the UCF Athletics Association, Inc. under the general supervision of the Director of Athletics, who reports to the president. The University of Central Florida is a member of the National Collegiate Athletic Association (NCAA), Division I, competes in the Atlantic Sun Conference, and competes in the Mid-American Conference for football. Intercollegiate athletic contests are governed by the rules of play published by NCAA and all established eligibility standards are observed. UCF’s current intercollegiate sports for men include baseball, basketball, cross country, football, golf, soccer, and tennis. Women’s sports include basketball, cross-country, golf, rowing, soccer, softball, outdoor and indoor track and field, tennis, and volleyball.

Graduation Rate Disclosure
The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking undergraduate students who are enrolling for the first time at the institution, and who have not previously enrolled at any other institution of higher education, either complete or graduate from their programs. The freshman retention rate for Fall 2002 students is 83.0 percent. The information is public and available for review in the UCF Library.

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

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

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

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

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

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

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

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

The UCF Alumni Association offers many volunteer opportunities and awards more than $40,000 in scholarships to eligible students every year. To join, or for more information, stop by the UCF Alumni Association located in the Research Pavilion, 12424 Research Parkway, Suite 301; call 407-UCF-ALUM (823-2586); toll-free (800) 330-ALUM; or connect anytime at www.ucfalumni.com.

UCF Foundation, Incorporated
The UCF Foundation, Incorporated is a non-profit, tax-exempt corporation directed by a 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.
Purpose Statement
Create, coordinate and deliver strategic communications and quality enrollment that add value to the university.

Overview
The division of the Vice President for Marketing, Communications, and Admissions coordinates and directs the functions of the university most directly responsible for establishing, originating and disseminating positive, targeted communications developed to enhance and forward the university’s prominence, achievements, identity and value to its diverse constituencies.

The division unifies the activities of University Marketing, News and Information, and Undergraduate Admissions. In this collective, the shared goal of enriching the momentum and impact of UCF’s marketing communications is grounded in the belief that successful communications programs are the result of collaborations and relationship-building efforts. The vision of the division is to integrate and publicize the entrepreneurial achievements of the sources and providers of the UCF experience, campuswide—in academics, research, civic and corporate outreach, service and community involvement—and by doing so to enhance UCF’s reputation as a major research institution and to better tell our success story to our key constituents and prospective students.

This mission, the enrichment of the university’s image and brand identity in terms of audience-specific recognition, encompasses the reach, frequency and continuity of the message. The division is responsible for developing and implementing strategy, programs to communicate UCF’s advantages in academics, campus life, research, corporate partnerships and individual college capabilities; positioning platforms, copy platforms and design, and production of publications and multimedia tools to achieve its mission.

The division is committed to achieving the highest possible competitive advantage for the university. This will be measured not simply in terms of quantity or even quality of the communications the division produces, but on the increasing awareness of and positive associations with the university’s diverse constituencies.

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

Introduction
The Division of Student Development and Enrollment Services (SDES) is an integral part of the University of Central Florida. Reporting to the provost, SDES is responsible for the administration and management of programs, services, facilities, and activities designed to support learning both inside and outside the classroom. The division is committed to providing an integrated program of opportunities that emphasizes key transitions, student and academic support services, and personal growth. Some of these include: orientation, first year academic advising, academic exploration, registration, multicultural services, personal counseling, housing and residence life, health services, career development, the student union, recreation services, student activities and organizations, tutoring, learning assistance, and leadership development.

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

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

Academic Development and Retention
Interim Associate Vice President: Mark Allen Poisel; PH 216 (407) 823-2137, 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: TBA; WDSC 110, SABRE Centre; 407-823-5895
http://www.assa.sdes.ucf.edu
The Office of Academic Services for Student-Athletes works in collaboration with the Athletics Department to assist student-athletes in their efforts to establish and achieve their personal, academic, NCAA Division I academic-athletic eligibility, and career planning goals. ASSA services include:

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

**National Consortium for Academics and Sports (NCAS)**
Director: Suzi Katz; WDBC 123; 407-823-5243
http://www.nccase.org

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

**First Year Transitions (FYT)**
Interim Assistant Vice President, DeLaine Priest; PH 113; 407-823-5130; http://fyt.sdes.ucf.edu

The Unit of First Year Transitions provides seamless articulation and necessary support to motivate and encourage first year students to more effectively transition into their new UCF environment while minimizing threats to their success. Through outreach, collaboration, and coordination, this unit comprises the offices of First Year Advising and Exploration, Orientation Services, and Transfer Services. A strong common component of First Year Transitions is the Academic Exploration Program for undeclared students and major changers. For more information, visit FYT’s website at http://fyt.sdes.ucf.edu.

**Academic Exploration Program (AEP)**
407-823-5322; 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 in selecting a career and major. Students are provided major exploration and career development connections as primary advising initiatives so students may assess, explore, plan, and decide on their future major at UCF. AEP has several components including coordinat ed academic advising services from a first year advising office, online assessments, and activities through a program called Golden Opportunities coordinated by the Career Resource Center. The program is also available to first year students who are unsure about their major choice and to those changing their majors. For more information, visit the AEP website at http://aep.sdes.ucf.edu.

**First Year Advising and Exploration (FYAE)**
Director: TBA; PH 116; 407-823-3769
http://firstyear.sdes.ucf.edu

UCF recognizes that starting in a new learning environment can present many changing 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, small group advising sessions, outreach programs, email and phone communication, and individual appointments. The office focuses its efforts on providing proactive academic advising support, establishing early and regular communication, and providing outreach advising activities for first year students residing in both on- and off-campus facilities. FYAE also offers academic advising at a satellite office located in the Pegasus Landing affiliated housing area. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised through First Year Advising and Exploration. For further information, visit Howard Phillips Hall, room 116, or the FYAE website at http://firstyear.sdes.ucf.edu.

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

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

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

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

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

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

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

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

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

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

**Transfer and Transition Services**
Director: Charlene Stinard; PH 102; 407-823-2231
http://transfer.sdes.ucf.edu

The Office of Transfer and Transition Services has been organized to help transfer students make a seamless transition so that they have a more successful experience at the University of Central Florida. The office provides the following resources and services:
- General advising and referral for transfer students before and after they enroll at UCF;
- Advising for transfer students who are undeclared majors, undecided, or changing majors;
- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities;
- Articulation workshops and conferences involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions;

For more information, visit the Transfer and Transition Services web-
Career Services & Experiential Learning (CSEL)
Executive Director, Melanie Parker; SRC 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 facets 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, Catherine Steel, Ph.D.; SRC 203; 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 comprised 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 and operates on an appointment basis. Among the services offered by the Center include:
- Short-Term Individual Counseling
- Group Counseling and Workshops
- Crisis Intervention
- Couples Counseling
- Professional Consultation
- Outreach and Presentations
- Career Assessment and Counseling

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: 407-823-3533 E-mail: registrar@mail.ucf.edu; website: http://www.registrar.ucf.edu
The Registrar’s Office, with a commitment to quality service and leading edge technology, provides timely and accurate enrollment information and access for students, colleges and departments, effectively meets student administrative needs, ensures complete records management from registration through graduation and archived data stores. The office maintains the integrity of student permanent academic records and coordinates and enforces University policies and procedures campus-wide through cooperation, communication, and leadership. The Registrar’s Office is responsible for management and publication of course offerings, the Undergraduate Catalog, the online Schedule Web Guide, the efficient utilization of classroom resources, residency reclassifications, student veteran services, and Commencements.

Veteran Services
Assistant University Registrar: H. Lee Parker; MH 161; 407-823-2707; http://www.va.sdes.ucf.edu
Veteran Services serves all veteran students and eligible dependents who are receiving 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 Veteran Services web site.

UCF, being a member of SOC (Service Members Opportunity College) provides credit for military training and education. Credit is awarded for regionally accredited schools and courses only. Transfer credit is not awarded for experience, military skills level and/or special certifications. In addition, no credit is awarded for Basic Military Training. Transfer credit is awarded per the recommendations of the American Council on Education (ACE) Guide. Based upon courses and/or training listed on the DD Form 214, SMARTS, ARTS, or other official military records. U.S. Air Force veterans must coordinate with the Community College of the Air Force to provide official CCAT transcripts to the Undergraduate Admissions Office.

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

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

Students currently enrolled at UCF and another institution may receive VA educational benefits, but first must complete the appropriate Transient Form and consult with Veterans Services. Veterans and dependents are encouraged 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 Kalfin; SRC 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, assistance with course content, 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 Telecommunication Device for the Deaf (TDD)/Text Telephone (TTY) is available for deaf/hard-of-hearing or speech-impaired persons with TDDs/TTYS to contact Student Disability Services (TDD/TTY calls only phone 407-823-2116).

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

Activity and Service Fee Business Office
Director: David L. Pavlounis; SU 215; 407-823-5548
http://www.asfbusinessoffice.ucf.edu

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

In addition, our office operates the management of the Student Government Computer Lab, which is located in SU 209. The Student Government Computer Lab has 22 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 Programming
Interim Director: Tom Hall; MH 272; 407-823-0879
www.aod.sdes.ucf.edu

The Alcohol and Other Drug Programming Office offers a wide variety of services, including education, prevention, alcohol and other drug assessment/evaluation, short term intervention, counseling, and referrals. This office coordinates with many other campus and community programs to create a healthy environment for students to study, work and play in. We provide programs, activities and support services to encourage individuals and groups to make 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 REACH Health and Peer Education Program (Responsible Education and Action for Campus Health). Standards of conduct and disciplinary sanctions will be imposed for the unlawful possession, misuse or distribution of illicit drugs and alcohol by UCF students and employees on UCF property or as part of any of its activities. The unlawful manufacture, distribution, dispensation, possession or misuse of a controlled substance, prescription medication or the unlawful possession and use of alcohol is harmful and prohibited in and on UCF owned and controlled property or as part of any of its activities. Any UCF employee or student determined to have violated this policy shall be subject to disciplinary action for misconduct, action which may include termination/expulsion and referral for prosecution. No employee/student is to report to work/class or attend any University activity while under the influence of illegal drugs or alcohol. Violation of these policies by an employee/student will be reason for evaluation/treatment for drug/alcohol disorder and/or for disciplinary action up to and including termination/expulsion and/or referral for prosecution consistent with local, state and federal law.

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

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

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

Assessment and Planning
Director: Ronald H. Atwell; MH 282; 407-823-2628
http://www.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. Ulloom; SU 304; 407-823-2626
http://www.campuslife.sdes.ucf.edu

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

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

Regularly enrolled single students paying registration fees for a minimum of nine semester hours may apply for on-campus University-owned housing. The residential communities- Apollo, Libra, Lake Claire Courtyard Apartments, Nike, Hercules, and the Convocation Center Apartments- house approximately 4,300 students. On-campus residence halls offer double occupancy rooms with a shared bath in suite-style configurations. Single rooms with shared bath are available in the apartment facilities. Because of the limited amount of space, the University does not have a mandatory housing requirement. In on-campus accommodations are available for families or married couples.
Division Of Student Development And Enrollment Services

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

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

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

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

Housing applications and other housing information are available by contacting the Department of Housing and Residence Life, UCF PO Box 163222, Orlando, Florida, 32816-3222. Phone: 407-823-4663 (UCF-HOME), Fax: 407-823-3831. Web site: www.housing.ucf.edu.

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

LINK First Year Experience
Assistant Director of Housing and Residence Life: Jeff Novak
Coordinator for Residence Education: Rebecca Morales
Academic Village, Nike Community Office; 407-882-7005, www.link.ucf.edu

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

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

As an incentive to encourage first-year students to participate in these educational programs, New Knights receive points for every LINK program in which they participate. These points are known as LINK Loot. First-year students can acquire LINK Loot by participating in a LINK program. New Knights receive LINK Loot points by either swiping their UCF ID card or signing their name on an attendance sheet at beginning or end of each LINK program.

First-year students can use their LINK Loot points to bid on prizes at the LINK Auction. The LINK Auction is held at the end of each fall and spring semester. A complete list of prizes is located on the LINK website at www.link.ucf.edu.

Off-Campus Student Services (OCS)
Assistant Vice President and Director: Jimmy Watson; HAB 101; 407-823-6505; http://www.housing.ucf.edu/ocs

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

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

UCF Regional Campus Student Services
Interim Director, Southern Region Campus Life: Jim Smith
Director, Eastern Region Campus Life: Diana L. Weidman

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

Student Government
Assistant Directors of OSI/SGA Advisors: Shane Juntunen & Christa Coffey; SU 214; 407-823-2191 http://www.sga.ucf.edu

Student Government’s purpose is to represent student views on issues affecting UCF and to promote progressive changes that improve campus life. In advocating better communication and understanding among the UCF family, Student Government also provides numerous services that affect student life. These services currently include computer labs, discount tickets to movie theaters and theme parks, free local calling on campus telephones, funding for legal services, recreational services, and cultural and service events for students with disabilities. In addition, the offices provide programming and assistance to clubs and organizations as well as various standardized test information.

Student Health Services (SHS)
Director: Robert Faust; SHC; 407-823-2701 http://www.shs.ucf.edu

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

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

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

Optional health and accident insurance may be purchased by response to the mailers or by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Center Business Office (at 407-823-1067). Please remember that optional health and accident insurance is not part of the Student Health Services program, but is designed to provide for health coverage needs that are beyond the scope of Student Health Services.
such as hospital referrals. Charges incurred outside the Student Health Center are the responsibility of the student. Confidential testing for HIV (AIDS virus) is offered by the Student Health Center and a program for anonymous testing is available elsewhere by calling the REACH HIV/AIDS Education Office at UCF-AIDS (407-823-2437). Information concerning these programs may be obtained through the Student Health Center (407-823-2701) during regular hours.

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

**Student Leadership Programs**

**Director:** TBA; SU 208; 407-882-0152

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

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

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

**Greek Affairs**

**Director:** Gregory Mason; SU 208; 407-823-2824;

(Greek Council Office, SU 208, 407-823-2072)

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

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

Sorority or fraternity life can offer students a “home away from home,” a source of job contacts, a scholastic support system, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently, 41 fraternities and sororities involve more than 3,100 students. Greek organizations give college men and women a chance to excel in any area they choose and include students of every race, religion, culture, and background.

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

**LEAD Scholars Program**

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

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

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

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

Although LEAD Scholars will identify with a particular college, the program is available to students deciding upon their major academic interest as well as those who have settled upon a major. Sophomore students may take a leadership practicum in lieu of a class.

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

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

**Rosen College of Hospitality Management Campus Life**

**Director:** Tony Perry

9907 Universal Blvd., Suite 201L

407-903-8972

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

**Campus Faiths and Ministries**

**Director:** TBA; 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 growth and social opportunities in a spiritual context within the University community. In addition to mission and service opportunities, Campus Faiths and Ministries offers counseling, scripture study, public lecture and discussion programs, fellowship, recreation, and worship services.

**Student Rights and Responsibilities**

**Assistant Vice President and Director:** Patricia A. MacKown

SRC 155; 407-823-6960; http://www.osrr.sdes.ucf.edu

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

**Dispute Resolution Services**

**Coordinator:** Patty Farris; SRC150; 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 interper-
sonal 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 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
SRC 154; 407-823-2851
http://www.osi.sdes.ucf.edu

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

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

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

Office of Student Involvement
Director: Kerry Welch; SU 208; 407-823-6471
http://www.osi.sdes.ucf.edu

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

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

The Recreation and Wellness Center offers cardiovascular training equipment, weight training equipment, group exercise rooms, basketball courts, an indoor track, sand volleyball courts, a swimming pool, and a climbing tower. The UCF Campus Wellness Center, also housed with RWC, sponsors a wide variety of health-related classes, lessons, and programs throughout the year. Playing fields and tennis courts adjacent to the building are available to students when not in use for scheduled events. The Recreation and Wellness Center is open to all students with a valid UCF ID. Memberships are available for non-students. The Recreation and Wellness Center staff also operate the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft, and a nature trail. The facilities can be reserved for group activities by calling 407-823-5011.

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

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

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

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

The Student Union is the meeting place on campus and provides the campus community with a variety of meeting places, offices, programs, and services. The Union is home to a great variety of restaurants, including Joffrey's Coffee, The Sweet Retreat, Steak Escape, Uncle Al's Famous Hotdogs, Subway, Wendy's, Sbarro, Baja Burrito Kitchen, Mrs. Field's, Pretzel Time, and Wackadoo's Grub and Brew. 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, and ATMs from SunTrust, Bank of America, and the UCF Credit Union. For information, call 407-823-0001.

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

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

Multicultural Academic and Support Services (MASS)
Assistant Vice-President: A.J. Range; PH 221; 407-823-2716
http://www.mass.sdes.ucf.edu

The Office of Multicultural Academic and Support Services provides comprehensive academic support, cultural enrichment, consultation, and referral services that promote the recruitment, admission, retention, and graduation of African American, Hispanic American, Asian American and Native American students. MASS offers personalized advising and support; monitors academic progress; sponsors a six week summer program, Seizing Opportunities for Achievement and Retention (SOAR); and designs and coordinates cultural and social activities to assist multicultural students in realizing their academic, career and personal goals. MASS serves as the focal point of operations in addressing the specific needs, issues and concerns that confront multicultural students at UCF.
Undergraduate Admissions
Assistant Vice President: Gordon D. Chavis, Jr., J.D.
Progress Energy University Welcome Center
407-823-3000; email: admission@mail.ucf.edu;
http://www.admissions.sdes.ucf.edu

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

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

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

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

Meetings with admissions counselors to discuss your particular concerns about admission to the University are available by appointment. You may contact the admissions office at 407-823-3000 or visit us at our website. Information sessions and campus tours are also available for students interested in our Rosen College of Hospitality
Management. Please contact us at 407-903-8000 for further information.

Application for Admission
All interested applicants should complete the University of Central Florida "Undergraduate Admissions Application" and include the $30 in U.S. Currency, non-refundable application fee. Students may also apply online at our web site, http://www.admissions.sdes.ucf.edu. Students should apply several months in advance of an anticipated start date. Mail 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 this Undergraduate Catalog outlines minimum requirements to be considered for admission and that admission to the University is selective. The satisfaction of minimum requirements does not guarantee admission. Conversely, Florida Department of Education policy allows the University to admission exceptions to 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 Office 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 and loss of financial aid, and invalidation of credits or degrees earned.

Those enrolled students who have not submitted official completed records by the deadline will be placed on administrative hold. Students with these incomplete records will not be permitted to register for a future term until all official transcripts and other required documentation have been received. If, upon review of final transcripts, student records are not satisfactory, they may be placed on academic probation, have their admission status revoked, changed to non-degree or transient status, may become ineligible for financial aid. Students may also be placed on administrative hold. The University does not discriminate on the basis of disability for admission.

Admission for one term does not guarantee admission for a future term. Application only; additional official credentials may be required. 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 crediting 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 a complete 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 coursework, counselor recommendations, essay, and personal achievements and honors) will be considered in the selection process. The University reaffirms its Equal Educational Opportunity (EEO) commitments and seeks to increase diversity among the student body.

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

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

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

Academic Subjects | Units Required
--- | ---
English (three of which must have included substantial writing) | 4
Mathematics (at or above the Algebra I level) | 3
Natural Science (two of which must have included substantial laboratory requirements) | 3
Social Science (included: history, civics, political science, economics, sociology, psychology, and geography) | 3
Foreign Language (both credits must be in the same language) | 2
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 | 3

Total Units | 18

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

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Admission:

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

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<th>SAT or ACT</th>
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* No minimum score required.

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

- Admission to the University is limited by space availability. The degree of competition for space depends on the number and qualifications of those who apply for admission. To increase the chance of admission, high school students should present credentials that are stronger than the minimum requirements for consideration as listed above. If the number of qualified applicants exceeds the number that the University is able to enroll, a waiting list will be established.

- A student applying for admission who does not meet established requirements may bring to the University other important attributes or special talents and may be admitted if, upon appeal and in the judgment of the Admissions and Standards Committee, the student can be expected to do successful academic work. The University will provide appropriate advising for each student admitted under this alternative.

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

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

Dual Enrollment Applicants

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

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

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

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

Transfer Applicants

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

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

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

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

Transfer Applicants With Fewer Than 60 Credit Hours

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

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

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

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

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

1. Admission to one of the eleven state universities, except to “limited access” programs (programs that have additional admission requirements);
2. Acceptance of at least 60 credit hours by the state universities toward the baccalaureate degree;
3. Transfer of equivalent courses under the statewide Course Numbering System;
4. Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate); and
5. No additional General Education Core requirements;
6. Advanced knowledge of selection criteria for limited access pro-
grams; 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 semester hours of academic course work;
- The English and Mathematics requirements of the Gordon Rule; and
- A minimum of eight semester hours of college instruction in a single foreign language. This requirement applies to those students without the required two units of a single foreign language in high school.

Meeting these minimum requirements does not guarantee admission.

Second Bachelor's Degree Applicants
Second Bachelor’s Degree applications are processed by the Undergraduate Admissions Office or the Registrar’s Office. Guidelines for which office students should make application to are outlined as follows:
- Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admissions application.
- Students who have attended the University of Central Florida as a degree-seeking undergraduate student should apply through the Registrar’s Office. These students complete the “Readmission Application” form.

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

Transient Student Applicants
A student in good standing with a minimum 2.0 GPA at the last regionally-accredited institution attended who desires to enroll for one term at UCF may be considered for admission as a transient student. Such enrollment terminates at the end of one term and does not presuppose regular admission to the University. A transient student must submit an official transcript from the last institution attended. Transient student applications must be received by the appropriate application deadline. If a student’s last school of attendance is a Florida public university, please refer to the “SUS Transient Students” section of this Undergraduate Catalog. Transient students are not eligible to receive financial aid. Registration is permitted on a space-available basis. Meeting minimum GPA requirements does not guarantee admission.

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

Programs using the Limited Non-Degree Seeking status include:
- High school dual enrollment
- Soldiers-to-scholars
- Continuing education
- Regional campuses
- Off-campus credit

Teacher certification or re-certification

Students registering for classes in the Limited Non-Degree Seeking status are subject to the following regulations:
1. Students are required to provide evidence of their educational qualifications for attending classes in order to meet the intent of this enrollment classification;
2. Students who have been previously denied admission or disqualified for enrollment are not eligible;
3. Non-degree-seeking students are subject to the same rules and regulations as degree-seeking students;
4. Registration is permitted on a space-available basis;
5. A maximum of 15 undergraduate semester hours or 6 graduate semester hours may be earned as a limited non-degree seeking student;
6. International students may not register as non-degree-seeking since immigration regulations prevent foreign nationals from enrolling without admission to a degree or certificate program;
7. Limited Non-degree students are not eligible to receive financial aid nor to participate in intercollegiate sports; and,
8. Students must complete a Limited Non-Degree Seeking Status Registration Form.

Students registering in this category should be aware 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 applications 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 by a transcript evaluation service. These students should also include performance evaluations, grades for work completed over a period of at least three years, as well as any certificates earned, should be sent to one of the agencies listed below. They will translate it if necessary, evaluate it, and then send their evaluation directly to UCF. A grade point average should be calculated and must appear on this evaluation.
- If the student has attended any international universities, an English translation and evaluation of work completed at each institution will be necessary. Transcripts should be sent to one of the agencies below for a course-by-course evaluation. Please note that if 60 or more semester hours have been earned at a post-secondary institution, it will not be necessary to submit the secondary school records.

- Results of the TOEFL (Test of English as a Foreign Language) may be required of students whose first language is not English. Information about this examination can be obtained from TOEFL, P.O. Box 6151, Princeton, New Jersey, 08541-6151.
- Results of the SAT or ACT will be required if the student has earned less than 60 semester hours of college credit.

Information regarding these examinations may be obtained from the College Board (SAT), P.O. Box 592, Princeton, NJ, 08540 or from ACT, P.O. Box 414, Iowa City, Iowa, 52243. While there are no specific minimum score requirements on these examinations for admission, they are used in conjunction with other required credentials, and students should prepare sufficiently to achieve the highest possible score on these exams.
Applicants must file a "Certification of Finances" form and supporting 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 229.814. UCF will accept English translations and evaluations of academic credit from these agencies:

- Josef Silny and Associates, World Education Services
- P.O. Box 248233
- Coral Gables, FL 33124
- Old Chelsea Station, New York, NY 10113-0745
- (305) 273-1616
- (212) 966-6311

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 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 college community. 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 graduation course requirements. The TSR will be the basis for constructing a “SASS Degree Audit,” which applies earned credit toward the intended degree program. The “SASS Degree Audit” provides the student with an assessment of which degree requirements have been met and what remains to be satisfied. Although all college-level course work transferred from a regionally-accredited institution is shown on the TSR and the UCF transcript, applicability of the course toward a degree requirement is determined by the college/school/department of the major.

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

Credits From Private and Out-of-State Institutions
Transfer credit from private junior and senior colleges and out-of-state institutions will be evaluated on a course-by-course basis. Each student must submit the necessary petition(s) to the appropriate office(s) to determine which courses will transfer with regard to degree progress at UCF. Transfer courses that meet the requirements of the General Education Program and the Gordon Rule are determined through the process described in the “Undergraduate Degree Requirements” chapter of this Undergraduate Catalog. Petition procedures vary by college. Generally the petitioning of transfer courses for satisfaction of college and major requirements should be done during the second full term of the student’s residency at UCF, so that the accepted transfer courses are understood clearly by the student and the faculty advisor early in the student’s 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 semester hours at UCF and is based upon an overall grade point average. For more details, refer to ‘Academic Honors’ within the “Academic Regulations and Procedures” section of this Undergraduate Catalog.
Office of Student Financial Assistance
Executive Director  Mary H. McKinney
Millican Hall, Room 120
Switchboard: 407-823-2827
Appointment: 407-823-5285
Fax: 407-823-5241
E-mail: finaid@mail.ucf.edu
Web site: http://finaid.ucf.edu
Office Hours:
Monday: 9:00am - 7:00pm
Tuesday, Wednesday, Friday: 9:00am - 5:00pm
Thursday: 1:00pm - 7:00pm
(Hours subject to change during holidays and semester breaks.)

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

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

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

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

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

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

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

Helpful Hints

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

School Costs

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

Estimated Cost of Attendance for 2005-2006

<table>
<thead>
<tr>
<th>Housing Status</th>
<th>Living with Parent</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Full-time Fall/Spring)</td>
<td>$ 3,126.00</td>
<td>$ 3,126.00</td>
</tr>
<tr>
<td>Tuition/Fees</td>
<td>$ 3,126.00</td>
<td>$ 3,126.00</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>$ 860.00</td>
<td>$ 860.00</td>
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<tr>
<td>Room/Board</td>
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<tr>
<td>Personal Exp.</td>
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<td>Total-In-State</td>
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<tr>
<td>Total-Out-State</td>
<td>$24,224.00</td>
<td>$28,164.00</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, inadequate 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 admitted and have a valid FAFSA on file with the office. 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 Polaris. All awards are subject to change.

Deferrals of Tuition and Fees

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

Disbursements
Financial aid disbursements begin the second week of each term. Students should be aware of this, so they are prepared to use their personal savings for anticipated expenses such as books and supplies at the beginning of the term. The Short Term Advance is available for students to help with these expenses. Not available to post-baccalaureate students.

Federal Pell Grant
Students must be considered for a Federal Pell Grant before other forms of aid will be offered; covers a maximum of two full-time semesters a year.

Deadline: Before June 30, 2005
Minimum Credit Hrs. Required: Prorated based on hours
Available to Graduate Students: No
Second Undergraduate Degree Seeking: No

Federal SEOG (Supplemental Educational Opportunity Grant)

Deadline: March 1
Minimum Credit Hrs. Required: 12
Available to Graduate Students: No
Second Undergraduate Degree Seeking: No

UCF Grant

Deadline: March 1
Minimum Credit Hrs. Required: 12
Available to Graduate Students: No
Second Undergraduate Degree Seeking: No

FSAG (Florida Student Assistance Grants)

Deadline: March 1
Minimum Credit Hrs. Required: 6
Available to Graduate Students: No
Second Undergraduate Degree Seeking: No

Federal College Work Study

On-campus jobs; awarded as hourly wage. Not available to post-baccalaureate students.

Deadline: March 1
Minimum Credit Hrs. Required: 6
Available to Graduate Students: Yes
Second Undergraduate Degree Seeking: Yes

FWEP (Florida Work Experience Program)

Off-campus jobs directly related to a student’s major or career goal. Students work from 25-40 hrs/week and are paid an hourly wage. Program is administered by the Cooperative Education Office.

Deadline: Varies
Minimum Credit Hrs. Required: 6
Available to Graduate Students: No
Second Undergraduate Degree Seeking: No

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

Deadline: Posted each term
Minimum Credit Hrs. Required: 6 at UCF classes
Available to Graduate Students: Yes
Second Undergraduate Degree Seeking: Yes

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.

Deadline: March 1
Minimum Credit Hrs. Required: 6
Available to Graduate Students: Yes
Second Undergraduate Degree Seeking: Yes

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.

Deadline: Varies year round
Minimum Credit Hrs. Required: Varies
Available to Graduate Students: Yes
Second Undergraduate Degree Seeking: Yes

Federal Unsubsidized Stafford Loans
These loans operate under the same terms as regular Federal 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).

Deadline: Posted each term
Minimum Credit Hrs. Required: 6 at UCF classes
Available to Graduate Students: Yes
Second Undergraduate Degree Seeking: Yes

Federal Parent Loans for Undergraduate Students (PLUS)
These are loans that parents take out on behalf of their children (student must be dependent for financial aid purposes).

Deadline: Varies
Minimum Credit Hrs. Required: 6 at UCF
Available to Graduate Students: No
Second Undergraduate Degree Seeking: Yes

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. (Students on probation must meet standards each term);

- Regulations require that students complete their degree within 150% of the hours required for their specific programs of study as established by the university.

For detailed SAP policy information, please refer to the Office of Student Financial Assistance Web site at: www.finaid.ucf.edu

Procedures to Appeal:
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. To appeal, the student must:

- Complete the Satisfactory Academic Progress Appeal Form;
- Attach documentation supporting specific circumstance(s) to the appeal form; and
- Submit the appeal and the supporting documentation to the Office of Student Financial Assistance.

After a thorough evaluation of the written request and all supporting documentation, the Financial Aid Review Committee will notify the student of the decision by e-mail communication or the student may view the updated status on MyUCF, under View Financial Aid Status.
Transfer Students
Be informed. Not all financial aid programs are transferable and eligibility for some programs will be determined by UCF. The application process must be complete; pay close attention to priority filing dates. If a FAFSA for the year in question has already been filed, request that the federal processor forward the information to UCF, Code 003954, by utilizing Part II of the SAR, or by calling the federal information center at 1-800-4 FED AID. The To Do List on MyUCF will indicate any required forms.

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

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

Dual enrolled students must make arrangements to pay tuition and fees at the visited school since there is no system for deferral of those tuition and fees. In addition, it is the student’s responsibility to ensure 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.

Financial Information

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

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

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

Student Accounts Office

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

Students are encouraged to obtain a “Fee Invoice” to confirm fees and course registration. Fee Invoices are not mailed. Fee Invoices are available online through https://My.UCF.edu and kiosks, and from the student’s college advising offices. Students must obtain a new “Fee Invoice” after making any course changes or schedule adjustments.

All University fees must be paid according to published dates. Fees not paid by the payment deadline date for each term will result in late fees and could result in the cancellation of all classes. The following schedule applies to all UCF students:

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

Late Registration Fee
Students who enroll following the close of Add/Drop for the term or who enroll for the first time that term during Late Registration and Add/Drop will be assessed a Late Registration Fee of $100.00.

Pay Now or Pay More

Late Payment Fee:
A $100 Late Payment Fee applies to students who do not pay their fees or who do not pay their fees (or obtain a fee deferment) by the payment deadline.

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

Late Registration Fee and Late Payment Fee Appeals
Students who desire to appeal a Late Registration, and/or Late Payment, may make their appeal to the Fee Appeals Committee by initiating a student petition (Form 41-561). This form can be obtained online at www.finacctg.ucf.edu/Student Accounts forms or from the
Financial Information

Student Accounts Section of Finance and Accounting. Students must submit their petitions to Student Accounts (MH 107) and may appear before the Committee (not mandatory).

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

Acceptable Forms of Payment
Acceptable forms of payment are cash, cashier’s checks, money orders and credit cards. Credit card payments or at the Cashier’s Office (MH 109). A mandatory, nonrefundable $10 convenience fee will be charged each time a student chooses to pay tuition or other state mandated fees online with a credit card.

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

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

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

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

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

Full Refund Eligibility
The following circumstances allow a full refund: 1) when 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 to a course offered by the University for any reason.

Partial Refund (25%) A 25% refund is made 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 a 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.

Repayment of Title IV Financial Aid
Any student receiving Title IV Federal Financial Aid who completely withdraws from the University before 60% of the term has elapsed may be required to repay a pro-rated portion of the aid received.

Tuition Waivers
State of Florida Employees Tuition Waiver
Full-time state employees may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of registration fees. State Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the Employees register

Tuition:
Florida Resident
Graduate:
Undergraduate:
Non-Resident:
Matriculation Fee
Non-Resident Fee
Building Fee
Capital Improvement Fee
Financial Aid Fee
Non-Resident Financial Aid Fee
UCF Activity Fee
Transportation Fee
Total Per Hour Fees

Non-Florida Resident
Graduate:
Undergraduate:
Non-Resident Fee
Building Fee
Capital Improvement Fee
Financial Aid Fee
Non-Resident Financial Aid Fee
UCF Activity Fee
Transportation Fee
Total Per Hour Fees

2004-2005 Repeat Course Schedule*
for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the Employee will be liable for all applicable fees. It is the responsibility of the employee to register on a space-available basis only. The tuition waiver cannot be used for courses that have increased costs. These courses include, but are not limited to, continuing education courses, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, practicums, third attempt repeat course surcharges, co-ops, or applied individualized instruction in Music, Art, or Dance, etc. Any State Employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed tuition waiver form to the UCF Student Accounts Office (MH 107) by each term’s Fee Payment Deadline. See the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. Employees may obtain the “State Employee Waiver Form and Instructions” from the Registrar’s Office web-site at http://registrar.ucf.edu.

UCF Employee Tuition Policy
All full-time general Faculty, Administrative and Professional (A&P), and University Support Personnel System (USPS) employees of the University of Central Florida who are employed in an established position on the date fees are due and who meet academic requirements, including those employees on sabbatical, professional development, grants-in-aid, and educational leave, may be allowed to enroll for up to six credit hours of eligible instruction per term on a space-available basis without payment of the registration fee. UCF Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the UCF Employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF Employee will be liable for all applicable fees. Any UCF Employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term’s Fee Payment Deadline. See the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines.Prior to registering into courses each term, enter the Human Resources web site at http://www.hr.ucf.edu/ for eligibility requirements, course restrictions and for the waiver application form.

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

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 tuition & fee payment deadline. If the student does not wish to utilize the Prepaid Tuition Plan, the student must notify the Student Accounts Office (MH 107) by fee payment deadline.

The plan will pay $76.32 per credit hour (graduate or undergraduate level) for the 2004-2005 academic year. The plan does not cover local fees of $23.08 per credit hour, health fee, material/supply fees or the UCF ID Service and Access fee. Students with the local fee plan, which is indicated on your Florida Prepaid Tuition Plan card, will cover $95.50+ per credit hour and health fee. For further details on the Florida Prepaid Tuition Plan please visit our website http://www.finacctg.ucf.edu and click on Student Accounts, Forms & Instructions, and then Florida Prepaid Tuition Plan Procedures. Note: the tuition rates had not been established at the time of printing.

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, parol, Cubam 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 residency for tuition purposes only after a period of 12 months from the date that the Clerk of the Court notes that the declaration was sworn and subscribed to.)
   b. Proof of purchase of a home in Florida in which the student resides;
   c. Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment records).

2. Documentation establishing bona fide domicile in Florida which is not temporary or merely incidental to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered as conclusive evidence of domicile:
   a. Declaration of Domicile;
   b. Florida voter registration;
   c. Florida vehicle registration;
   d. Florida driver license;
   e. Declaration of former domicile in Florida and maintenance of significant connections while absent;
   f. Verification of permanent employment in Florida by the employer, employment records, or any other employment-related documentation (e.g., W-2 paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment. The document must show 12 consecutive months of Florida employment prior to the first day of classes of the term for which the student requests Florida residency;
   g. Proof of membership in or affiliation with community or state organizations or significant connections to the State;
   h. Proof of continuous presence in Florida during periods when not enrolled as a student;
   i. Proof of former domicile in Florida and maintenance of significant connections while absent;
   j. Proof of residence 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...
Financial Information

- n. General circumstances of the individual:
  - 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 Request Form” and supporting documents to the Registrar’s Office (MH 161). This form is available either at the Registrar’s Office or online at http://registrar.ucf.edu.

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

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

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

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

The Registrar’s Office may require additional documentation beyond that initially submitted by the student or the claimant before it can render a reclassification eligibility determination and it will not complete its review of the residency reclassification application until both the student and the claimant have submitted all requested documents.
Responsibilities
Academic advising is a process that assists students in the clarification of life goals and the translation of these goals into educational plans. It provides assistance to students as they explore educational opportunities and develop educational plans and objectives. Academic advising connects students with the University by bringing meaning to its mission, its curriculum and to the learning environment that is the University community. Academic advising is committed to assisting and supporting students with developing their educational, career and life goals. It provides access to campus resources, and coordinates the integration of all aspects of student life into learning experiences. It is an individualized avenue of communication that assists students in the planning and decision-making process.

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

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

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

New FTIC Students can expect to:
1. Attend a mandatory Orientation that will provide:
   a. Initial academic advising in a group setting and preparation for the first semester, including schedule planning and registration
   b. An assessment of high school grades, entrance and placement test scores, 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 to their first year advising office during the first semester according to the following designated priority order:
   a. Academic Services for Student-Athletes (ASSA) - for student athletes (WDSC 110)
   b. Student Academic Resource Center (SARC) - for participants in the College Achievement Program (CAP) or Pegasus Success Program (PH 113)
   c. Multicultural Academic and Support Services (MASS) - for all students in the SOAR program (PH 221)
   d. First Year Advising and Exploration (FYAE) - for students not covered by any of the previous categories (PH 116)

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

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

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

Continuing students will:
1. Contact the department of their major and meet with a faculty advisor in the department during the first two months of any semester to review progress and plan a program of study;
2. Meet with their academic advisor in the department of their major prior to registration.
3. Contact the office of Honors Advising (BHC 107) and based on the recommendation from their academic advisor and the requirements for University Honors, an Honors Advisor will assist with Honors course selection;
4. Continue to register for classes online; and,
5. Check their “Fee Invoices/Schedule” to ensure accuracy of class schedule.
6. Attend any mandatory Honors advising appointments.

The Burnett College of Biomedical Sciences
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 their faculty advisor during the first few months of each semester to check progress toward graduation and selection of program courses. The faculty advisor’s name and phone number appear on the SASS Degree Audit each term;
2. See an advisor in the Department of Molecular Biology and Microbiology (HPA 325) if pending majors in limited-access Medical Laboratory Sciences program during the first few weeks of each semester to check progress toward eligibility for application to the major;
3. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through MyUCF;
4. Register at the scheduled appointment time. Complete all schedule changes by the end of the published add/drop period; and,
5. File an “Intent to Graduate Form” in the Department of Molecular Biology and Microbiology by the end of the term prior to the term in which graduation will occur.

Pre-Health Professions Advising
The Pre-Health Professions Advising Office (HPA 124; 407-823-2670) serves all students preparing for and seeking admission to professional schools of chiropractic, dentistry, medicine, osteopathic medicine, optometry, pharmacy, podiatry, and veterinary medicine. The services range from basic advising in pre-health professions...
Academic Advising

matters, to providing a Composite Evaluation of the student to each professional school to which the student applies (upon his/her request after at least 30 semester hours of typical undergraduate pre-health professions courses taken at UCF).

Pre-Health Professional Planning
Preprofessional advisement deals primarily with application and admission procedures.

Admission to a health professional school is highly competitive. Pre-health professions students are expected to be high achievers, and to obtain good grades with heavy loads and rigorous course combinations.

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

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

Additionally, prudent use of elective hours in the curricula will permit other appropriate pre-health 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 fall semester they are enrolled. This course provides a broad exposure to the various four-year health professions. In addition, the entire pre-professional process (academic preparation, applications, admission tests, interviews, admissions, scholarships, etc.) is explained in depth.

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

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

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

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

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

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

New students will:

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

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

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

New students will:
1. Meet college advising representatives in a group setting during Orientation to discuss college policy, procedures, and degree programs;
2. Review degree requirements at Orientation using SASS Degree Audit and catalog to better understand degree requirements and learn how to read a SASS Degree Audit;
3. Meet with 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 Polaris. Check Polaris or the TV monitors for registration dates each term;
3. Register at your scheduled appointment time. Register in Polaris if you are in your major. All changes to your schedule must be completed by the end of the Add/Drop period;
4. Complete all prerequisites prior to admission to upper division classes; and;
5. Meet with 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 Polaris;
3. Register at scheduled appointment time in Polaris. Students with extenuating circumstances may register in person in the College of Education Office of Student Services. Students must complete any changes to their schedules by the end of the published Add/Drop period; and,
4. File an "Intent to Graduate Form" in the College of Education by the end of the term prior to the term in which graduation is intended.

**College of Engineering and Computer Science**

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

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

**College of Health and Public Affairs**

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

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

**Rosen College of Hospitality Management**

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

**Continuing students should:**
1. See their faculty advisor during the first few weeks of each semester to check progress and to select a program of study;
2. See a program advisor prior to registration to select courses;
3. View a SASS Degree Audit through Polaris and contact the Office of Academic Services regarding questions or concerns; and,
4. File an Intent to Graduate Form in the 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/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 102. Call the Student Hotline at 407-823-5959 or visit the website 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 transitioning students who are undeclared majors, undecided or changing majors, and freshmen with 45+ credit hours;
- Transfer Peer Mentor advising services.

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

Why Should I Complete My A.A. Before Transferring From a Florida Public Institution?
Receiving your A.A. from a Florida public institution ensures special benefits guaranteed under the statewide Articulation Agreement. The following are some of the advantages of receiving your A.A.:
- Priority in admission to state universities;
- Acceptance of at least 60 credit hours toward the baccalaureate degree; no additional general education core requirements;
- Acceptance of all courses taken at your institution, if the same course with the same course number is offered at UCF;
- Transfer of all accelerated programs (CLEP, AP, IB, early admission, and dual enrollment courses) within the A.A.; official test scores must be sent to receive UCF course credit;
- Advance knowledge of selection criteria for limited access programs; equal opportunity with UCF native students to enter limited access programs; and
- All grade forgiveness awarded under the A.A. will be honored.

If you do not complete an A.A. at a Florida public community college or university, you must complete UCF’s general education requirements, which may be considerably different from your previous institution’s requirements. In addition, no grade forgiveness will be honored. All attempted credits will be averaged into your GPA for admission purposes. If you have met all the A.A. 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 cours-
es. If your grade point average falls below a 2.0 (without grade forgiveness), you will not be admitted.

What If I Have Not Taken the CLAST?
Students may be admitted without completing the CLAST. However, without the CLAST completed, you cannot be 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 undergraduate course work. UCF accepts the CLAST alternatives and waivers awarded by Florida public community colleges and universities.

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

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

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

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

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

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

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

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 Polaris (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 Polaris. Payments may be made at the Cashier’s Office, Millican Hall, room 110, or mailed to:

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

Please do not mail or place cash in the night depository. Please include your PID on all checks and money orders. Credit cards are accepted, in person, over the Web, or by telephone; a $10 convenience fee is added for each transaction. Financial Aid deferments will automatically be reflected on your fee invoice. If the total amount of your tuition and fees exceeds the amount of your deferment, the difference must be paid by the due date on your fee invoice. The following programs are not included in the automatic deferral program: work/study programs, third party deferrals, other waivers, and direct pay scholarships.

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

Transfer Services

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

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

Students should:
- Submit your application at least six months in advance. Do not wait until the A.A. is awarded to apply. You can be admitted "contingent upon completion of the A.A." if you meet specific admission requirements. By applying early and being admitted, you will be invited to an early orientation. This means you will register along with native UCF rising juniors.
- Keep a transfer diary. For each contact with UCF, record the name of the person with whom you spoke, the date, and the type of request. Keep a copy of all letters you send and receive.
- Have original transcripts from all institutions you have attended sent directly to the Undergraduate Admissions Office. If you are currently enrolled, send a transcript when applying and a final transcript when classes are completed.
- Attend the earliest Orientation session possible. You will have more course selections and registration choices. You should bring copies of all transcripts (transcripts sent in for admissions purposes are not available for advising during orientation). You are advised and then allowed to register. Tuition and fee payments are due by the published deadline, before classes begin.
- Complete the “Student Health Form.” Registration will not be allowed without the completion and approval of this form.
- Complete CLAST if possible; however, you can be admitted 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.
### Transfer Checklist

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

#### Application for Admission
- __/__/___ date submitted
- __/__/___ date admission status checked at [https://My.UCF.edu](https://My.UCF.edu)
- __/__/___ date of acceptance

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

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

#### Housing
- ___on-campus ___off-campus
- __/__/___ date application sent (include deposit when required)
- __/__/___ date accepted

#### Immunization
- __/__/___ date student health form submitted
- Y___ N___ need immunizations

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

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

#### Program (Major) Requirements
- Y___ N___ limited access application
- Y___ N___ completed prerequisites
- Y___ N___ met grade point average (GPA) requirements
- Y___ N___ met minimum cumulative GPA for admission to program of study
- Y___ N___ met cumulative GPA in courses taken for program of study
- Y___ N___ met grade requirements for designated courses
- Y___ N___ audition, portfolio, additional admission requirements met
- Y___ N___ CLASTexam or alternatives

#### Orientation:
- __/__/___ orientation date at UCF
Requirements for Graduation

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

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

Degrees Awarded Posthumously

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

Choice of Catalog (Catalog Year) and Continuous Enrollment

A student must graduate under the provisions of any UCF Undergraduate Catalog in effect since the student began continuous enrollment at UCF. New Catalog policies and requirements take effect with the Summer term. A student transferring from Florida public community colleges 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 individuals in their psychological, political, economic and social environments.
### General Education Program (GEP) Courses (36 semester hours required)

Some majors require a specific course or a higher level course in some areas. Consult your major requirements and advisor.---

#### A. Communication Foundation

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 English Composition I</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>ENC 1102 English Composition II or ENC 1101 T, 2</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>SPC 1600C Fundamentals of Oral Communication or ENC 1101 T</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>SPC 1016 Fundamentals of Technical Presentation</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>CH 1000 Communications</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

#### B. Cultural and Historical Foundation

Three courses are required, with at least one from each of the following two groups:

**GROUP 1** Take at least one of the following two-semester sequences:* (minimum of 3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH 2000 Western Civilization I and II</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>EUH 2001 Western Civilization III or ENC 1101 T</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>HUM 2211 Humanistic Tradition I or ENC 1101 T</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>HUM 2230 Humanistic Tradition II or ENC 1101 T</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>AMH 2010 U.S. History: 1492-1877* and</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>AMH 2020 U.S. History: 1877-present* or</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>WOH 2012 World Civilization I and II or ENC 1101 T</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>WOH 2022 World Civilization II</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

**GROUP 2** Take at least one of the following. (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050 The History of Art I</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>ARH 2501 The History of Art II</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>MUL 2010 Enjoyment of Music</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>THE 2000 Theatre Survey</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>FIL 1001 Cinema Survey</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>REL 2300 World Religions</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>LIT 2110 World Literature I PR: ENC 1102 2</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>LIT 2120 World Literature II PR: ENC 1102 2</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

#### C. Mathematical Foundation

Take one course from each group.

**GROUP 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 College Algebra</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>MGF 1106 Finite Mathematics</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

**GROUP 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1060C Introduction to Computer Science</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>STA 1060C Basic Statistics using Microsoft Excel</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

#### D. Social Foundation

Take one course from each group.

**GROUP 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2013 Principles of Macroeconomics</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>ECO 2023 Principles of Economics II</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>POS 2041 American National Government</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

**GROUP 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012 General Psychology</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>SYG 2000 General Sociology</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>ANT 2000 General Anthropology</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

#### E. Science Foundation

Take one course from each group.

**GROUP 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 2002 Astronomy</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>PSC 1121* Physical Science PR: MAC 1105 or MGF 1106/3(0)</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>PHYS 2033C College Physics I: MAC 1105 and MAC 1114</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>CHM 1120 Concepts in Chemistry</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

**GROUP 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 1005* Biological Principles</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>BSC 1050* Biology and Environment</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>GLY 1030 Geology &amp; Its Applications</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>GEO 1200* Physical Geography</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>ANT 2511 The Human Species</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>MCB 1310 Biotechnology and Genetics</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>

* 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.1

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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 the 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 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 Polaris at https://my.ucf.edu. Appeals of transfer credit decisions should be directed to Academic Services (MH 210). Substitution requests for college or major requirements are processed within those administrative offices.

Alternate Courses: General Education Program

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

<table>
<thead>
<tr>
<th>GEP Requirements</th>
<th>Acceptable Substitutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 (College Algebra)</td>
<td>MAC 1124, MAC 2233, MAC 2253,</td>
</tr>
<tr>
<td></td>
<td>MAC 2254, MAC 2311, MAC 2312,</td>
</tr>
<tr>
<td></td>
<td>MAC 2313</td>
</tr>
<tr>
<td>ECO 2013 (Macroeconomics)</td>
<td>Any higher level ECO course which has</td>
</tr>
<tr>
<td></td>
<td>ECO 2013 as a prerequisite ECO 2023</td>
</tr>
<tr>
<td></td>
<td>(Microeconomics)</td>
</tr>
<tr>
<td>PHY 2053C (Physics)</td>
<td>PHY 2048, PHY 2049, PHY 2054C,</td>
</tr>
<tr>
<td></td>
<td>PHY 204C, PHY 5015C</td>
</tr>
<tr>
<td>CHM 1020 (Chemistry)</td>
<td>CHM 2045C, CHM 1032,</td>
</tr>
<tr>
<td></td>
<td>CHS 1440</td>
</tr>
<tr>
<td>BSC 1005 or BSC 1050 (Biology)</td>
<td>BSC 100C</td>
</tr>
<tr>
<td>GEO 1200 (Geography)</td>
<td>GEO 2370</td>
</tr>
<tr>
<td>CGS 1060C (Intro to Computer)</td>
<td>CGS 2100C, COP 2200, COP 2500C, COP</td>
</tr>
<tr>
<td></td>
<td>3020C, COP 3020C, COP 3900C, COP 5000C</td>
</tr>
<tr>
<td>STA 2014C (Statistics)</td>
<td>STA 2023, STA 3032</td>
</tr>
<tr>
<td>THE 2000 (Theatre)</td>
<td>THE 2020</td>
</tr>
<tr>
<td>FIL 1001 (Cinema Survey)</td>
<td>FIL 2400, FIL 3401, FIL 3402</td>
</tr>
<tr>
<td>MUL 2010 (Enjoyment of Music)</td>
<td>MUN 4212</td>
</tr>
</tbody>
</table>

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Diversity Requirement

The University recognizes that communities are comprised of, and enriched by, people of diverse backgrounds. The study of diversity is encouraged to promote an understanding of the needs of individuals, the University, and society. Thus, all students completing their first bachelors degree from UCF must complete at least one course that explores the diverse backgrounds and characteristics found among humans, including: race/ethnicity, gender, social class/caste, religion, age, sexual orientation, and level of physical ability. Students are exempt from this requirement if they have completed an Associate of Arts degree or the General Education Program at a Florida public state university or community college. Students who have previously completed a baccalaureate degree also are exempt. The requirement is satisfied by the successful completion of a diversity course selected from the following list. Additional courses may be approved subsequently by the General Education Oversight Committee, so students should consult their departmental advisor for the most current listing.

General Education Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102 Composition II</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>SPC 1000C Fundamentals of Oral Communication</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>SYG 2000 General Sociology</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>ANT 2000 General Anthropology</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>POS 2041 American National Government</td>
<td>3(3.0)</td>
</tr>
<tr>
<td>PSY 2012 General Psychology</td>
<td>3(3.0)</td>
</tr>
</tbody>
</table>
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 periodically each semester. Students must register in advance with that office to take the examination (SRC 203).

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

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

American Sign Language

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

SUS Foreign Language Admission Requirement

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

The Gordon Rule

The “Gordon Rule” (State Rule 6A-10.30) applies to students who first enrolled in any college or university after October 1982. The rule requires students to complete 24,000 words of composition in four courses (12 semester hours) and to complete two courses (six semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a minimum grade of “C-” (1.75).

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

Gordon Rule Requirement:

1. Six hours of mathematics at the level of college algebra or higher

   (1) College algebra or finite math
   (2) Statistics or computer science

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

2. 12 hours of course work in which the student must complete 24,000 words of composition

   (1) Six hours of English Composition
   (2) Six-hour sequence of Western Humanities, World History, U.S. History, or Western Civilization

Specific upper level courses also may be used to meet the Gordon Rule composition requirement. Each of the courses listed below fulfill 6,000 words of the composition portion of the requirement.

ADV 4101 Adv Copy and Campaigns
CRW 3013 Introduction to Creative Writing
ENC 3211 Theory and Practice of Technical Writing
ENC 3241 Writing for the Technical Professional
ENC 3250 Professional Writing
ENC 3311 Advanced Expository Writing
ENG 3014 Theories and Techniques of Literary Study
JOU 3100 News Reporting
JOU 4302 Editorial/Column Writing
JOU 4310 Freelance Writing
JOU 4300 Feature Writing
JOU 4104 Public Affairs Reporting
Undergraduate Degree Requirements

JOU 4306 Critical Writing
PUR 4800 Public Relations Campaigns
RTV 3501 Broadcast Copywriting
RTV 3300 Broadcast Newswriting
RTV 4402 Broadcast Criticism
THE 4072 Principles of Motion Picture Art

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

AMH 3402 History of the South to 1865
AMH 3403 History of the South Since 1865
AMH 3441 History of the Frontier: Eastern America
AMH 3442 History of the Frontier: Western America
AMH 4140 Jeffersonian America
AMH 3540 Military History
AMH 3560 Women in American History
AMH 3571 Black American History
AMH 3800 Canadian History
AMH 4120 Colonial America, 1607-1763
AMH 4130 The Age of the American Revolution, 1763-1789
AMH 4170 Civil War and Reconstruction
AMH 4160 Jacksonian America
AMH 4201 Robber Baron Era
AMH 4231 United States History: 1914-1945
AMH 4270 United States History: 1945-Present
AMH 4311 American Culture I
AMH 4313 American Culture II
AMH 4510 Rise of the US to World Power, 1776-1914
AMH 4511 US as a Great Power: 1914-Present
A ML 3031 American Literature I
A ML 3051 American Literature II
ANT 3145 Archaeology of Complex Societies
ANT 3162 Archaeology of the Americas
ANT 3163 Prehistoric America
ANT 3168 Maya Archaeology
ANT 3930 Seminar in Arch Meth
ARH 4350 Baroque Art
ARH 4430 19th Century Art
ARH 3456 Art After 1945
ARH 4450 20th Century Art
ARH 4655 Mesoamerican Art
ASH 3300 Survey of East Asia
ASH 4404 China in 19th and 20th Centuries
ASH 4442 Modern Japan, 19th and 20th Centuries
CRW 3930 Creative Writing for Non Majors
ENL 2012 English Literature I
ENL 2021 English Literature II
EUH 3122 Medieval Society and Civilization
EUH 3140 Renaissance and Reformation
EUH 3235 Romanticism and Realism
EUH 3242 Modern Europe of the First World War
EUH 3284 Second World War and Rebirth of Europe
EUH 3411 Ancient Rome
EUH 3651 War and Society
EUH 4284 Fascism and the Totalitarian Dictatorships
EUH 3451 History of Modern France
EUH 4461 Rise of Modern Germany
EUH 4465 Hitler’s Third Reich
EUH 4500 English Language
EUH 4501 English Language: 1485-1815
EUH 4502 British History: 1815-Present
EUH 4530 British Empire and Commonwealth
EUH 4571 History of Russia to 1801
EUH 4574 History of Russia, 1801-1817
EUH 4576 History of Russia in the 20th Century
EUH 4620 European Great Powers: 1815-1914
EUH 4621 War and International Politics in Europe
HER 3101 History and Historians
HIM 4676 Professional Development & Issues in HIM
HSA 4502 Risk Management Systems
HUM 3431 Ancient Humanities
JOU 4300 Feature Writing
JOU 4181 Public Affairs Reporting
JOU 4306C Critical Writing
LAH 3130 Latin American History I
LAH 3200 Latin American History II
LAH 3400 History of Mexico and Central America
LAH 3470 History of the Caribbean
LIT 2110 World Literature I
LIT 2120 World Literature II
NUR 3165 Critical Inquiry
NUR 3809 Transitional Concepts in Nursing I
PAD 4034 Administration of Public Policy
PAD 4720 Survey Research in Public Admin
PHH 3100 Ancient Philosophy
PHI 2630 Ethics
PHI 3800 Aesthetics
PHI 3803 Philosophy and Creativity
PLA 3155 Legal Writing
PLA 4935 Capstone: Legal Issues
RTV 4403 Electronic Media, Technology and Society
SOW 3104 Assessing I: Human Development
SOW 4232 Social Welfare Policies and Issues
SOW 4345 Micro-level Roles & Interventions in SW
SYP 3400 Social Change
TFA 4940 Technical Theare/Design Internship
TPP 4940 Theatre Performance Internship

Course Level Academic Skills Test (CLAST)

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

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

Students with 60 or more hours of credit who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of CLAST may enroll in 36 semester hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met. An appeal to continue enrollment may be submitted to the CLAST Petition Committee (PH 107).

CLAST is offered statewide once per term. Students must register in advance at the Student Academic Resource Center (PH 115) or at the Registrar’s Office (MH 161). Additionally, students may take the English Language Skills, Reading, and/or Mathematics subtests on computer at the Counseling and Testing Center/Test Office, SRC 212. A fee will be charged for the computer-adapted CLAST. Information regarding preparation for the CLAST or Alternative criteria for meeting the CLAST requirement may be obtained from the Student Academic Resource Center (PH 115): 407-823-5130. Academic advising offices can answer questions students may have.

CLAST Waiver Petitions for Students with Disabilities

Students with disabilities may request reasonable accommodations while taking the CLAST. Those who are unable to pass a sub-test of the CLAST due to a disability may request that a sub-test of the CLAST be waived. The student must be registered with the Student Disability Services Office (SRC 132) and have on file documentation of his or her disability. Contact Academic Support and Advising Programs (PH 107) to complete a petition to waive a CLAST subtest. The CLAST Waiver Committee reviews all requests for waivers on a case by case basis. For disability registration information, contact Student Disability Services at 407-823-2371. For CLAST waiver petition information and forms, visit http://fyt.sdes.ucf.edu

Summer Attendance Requirement

A student entering the State University System with fewer than 60 semester hours of credit is required to enroll in a minimum of nine hours of credit in the summer at a State of Florida university. Courses taken at the University during the summer for which the student receives a “W” or “F” may be counted toward this requirement. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. Petition forms for exemption are available from Academic Services (MH 210).
Admission to the Upper Division
To be classified as an upper division student at the University of Central Florida, a student must complete the following:
1. A minimum of 60 semester hours of academic work;
2. The English and mathematics requirements of the Gordon Rule;
3. Passing scores on three of the four parts of the CLAST; and,
4. One year of college instruction in a single foreign language.
(This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

Graduation Application Deadline
Students planning to graduate in the next term must complete the “Intent to Graduate Form” in their college (see the “Academic Calendar” for specific dates). Students who have not applied for graduation by the last day of classes in the term preceding the graduation term may not be listed in the Commencement Program.
Graduating students must be enrolled at UCF during the term of graduation. Graduates may contact the Registrar’s Office for Commencement ceremony and guest ticket information or refer to http://graduation.ucf.edu.
Successful completion of the degree requirements stated in the Undergraduate Catalog under which the student plans to graduate shall constitute a recommendation of the respective college faculty that the degree be awarded, assuming the student is in good standing at the University. A student must complete all requirements for a baccalaureate or graduate degree no later than the date of the Commencement. A student may not be enrolled as a transient student in another institution during the term in which the baccalaureate degree or the Associate degree is to be awarded.

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

The Grad On Track (GOT) program assures a student’s graduation in four years. GOT students agree to a pre-determined four-year program of study; in return, the University guarantees access to the classes needed to graduate in that program of study. The program is designed for students who will attend the University full-time for four years, and whose eligible major is determined from the point of admission to the program. For more information, visit the Grad On Track website at http://gradontrack.sdes.ucf.edu/.

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.nerdc.ufl.edu. Website: http://www.doce.ufl.edu.

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

Double Degrees/Second Baccalaureate Degree
Any UCF student desiring to obtain two or more baccalaureate degrees must meet the requirements for each degree and earn a minimum of 150 semester hours. A separate diploma will be awarded for each degree.
Transfer graduates from regionally accredited four-year U.S. institutions who apply for admission to work toward a second baccalaureate degree at UCF must meet the regular admission requirements of the major department and the UCF residency requirement for that degree. Students holding the baccalaureate degree from regionally accredited U.S. institutions are considered to have completed CLAST, Gordon Rule, foreign languages, and General Education Program Requirements. Students who hold degrees from non-regionally accredited U.S. institutions and foreign institutions may be required by the Office of Academic Services (MH 210) to fulfill all or part of the UCF General Education Program requirements.

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

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

Dual Usage of Credit Hours
Courses used to meet the requirements of an undergraduate degree typically cannot also be used to meet the requirements of a graduate program. At the discretion of the program and college, graduate programs are permitted to accept up to nine hours of graduate course work taken at UCF while an undergraduate student as part of an undergraduate program of study. Departments can provide information regarding the 3+2 degree programs and the Senior Scholars Program. See the Graduate Catalog for further information.
Regulation Policies
During each academic term, registration is held for all new, currently enrolled, degree-seeking and non-degree seeking students for the following term. Registration sessions consist of Registration and Late Registration (held during the first week of classes for each term/session). Spring Registration begins following midterm for the Fall Semester. Summer and Fall Registrations begin following the mid-term of the Spring semester. Class listings are available only online through the Polaris Class Schedule Search at https://My.ucf.edu.

Registration is available over the web using the Polaris system at https://My.ucf.edu and in the college advising offices. The dates and times for each registration period are included in the “Academic Calendar” online at http://www.ucf.edu/info.

Schedule Web Guide

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

Undergraduate Enrollment Status
Credit Hours
Full Time
12 or more
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 overrides.Overrides may be processed at the college advising offices.

Excess Hours
All students should make every effort to enroll in and complete only one course per week, 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 Polaris system at https://My.ucf.edu. To obtain an immediate release for financial holds, payment to the Cashier’s Office must be made either in cash, credit card, cashier’s check, or money order.

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

Audit Registration
Audit students are those who desire to attend class(es) without receiving academic credit. Regular tuition and fees are assessed for audit registration. See the “2003-2004 Tuition and Fees Schedule” in the “Financial Information” section of this Undergraduate Catalog. Audit registration is on a space-available basis at the prescribed time of Registration, or at any time during Late Registration and Add/Drop when Late Registration fees will apply. Audit requests for students who register prior to this time will be denied. Students may not change to audit status after Late Registration and Add/Drop, but must remain in the course or withdraw through normal withdrawal procedures. New students must be accepted for admission. Audit forms, available on the Registrar’s website and in the Registrar’s and college advising offices, must be signed by the instructor and presented to the Registrar’s Office at the time of registration.

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

State of Florida Employee Registration
State of Florida employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of Registration each term at the time specified on the “Academic Calendar,” online at http://www.ucf.edu/info. For waiver eligibility and application information, see “Tuition Waivers” within the “Financial Information” chapter of this Undergraduate Catalog.

UCF Employee Registration
UCF employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of Registration each term at the time specified on the “Academic Calendar,” online at http://www.ucf.edu/info. 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.ucf.edu/info. STEP students must present a “Certification” letter to the Student Accounts Office (MH 107) to receive waiver of eligible fees. Registration before the time specified in the “Academic Calendar” online at http://www.ucf.edu/info will result in the student being assessed regular fees. The tuition fee waiver cannot be used for courses that require increased costs, including, but not limited to courses offered through the Center for Continuing Education, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, co-ops, practicums, or applied, individualized instruction in music, art, or dance. Eligible members of the active Florida National Guard may receive a waiver of 50% of tuition and material and supply fees.

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

U CF 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 online at http://www.facts.org. The prior permission of the department, school, and college advising office is required to ensure that the courses attempted at another institution will transfer and meet the UCF Degree/General Education Program requirements.

U CF Students Attending a Non-SUS Institution

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

Enrollment and Degree Certifications

Students may obtain their enrollment verification online through Polaris 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.dregreeschk.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 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.ucf.edu/info. A student may withdraw from courses using Polaris at https://My.ucf.edu, or by visiting the Registrar's Office (MH 161), certain college advising offices, or the Regional Campus records office. Students desiring to withdraw must submit written requests must be received by 5:00 p.m. on the last day to withdraw and must include the student's identification number, the course(s) to be dropped and his or her signature. Students also may send a written request to the Registrar's Office by mail to P.O. Box 160114, Orlando, FL 32816-0114. This letter must be time-stamped or postmarked before the published withdrawal 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 sign the request and must provide photo-identification. The official date of withdrawal is the date the University receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal. Withdrawal from classes may have financial aid, NCAA eligibility or international Visa consequences. Students should submit appropriate paperwork prior to withdrawing from a class.

A student is not automatically withdrawn from a class for not attending, nor can an instructor withdraw a student from a class. Upon request the instructor will provide the student with an assessment of the student's performance in the course prior to the last day of withdrawal. 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 contact Academic Services (MH 210). At the time of the request, Academic Services will ascertain from the instructor whether the student was passing or failing the course. If the student was passing, a "WP" will be recorded on the student's permanent record; if failing, a "WF" will be entered. Medical and late withdrawals normally are for all courses taken in the semester.

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

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

Following the close of Late Registration and Add/Drop each term, students withdrawing from courses will incur both grade and fee liability. Students with circumstances determined by the University to be exceptional and beyond their control may apply for a cancellation of enrollment and an elimination of fee liability. Exceptional circumstances include, but are not limited to sickness, death, involuntary call to military service, or administrative errors created by the University. Students must submit a petition and all supporting documentation for a Late Drop of courses to Academic Services (MH 210; 407-823-2691) 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 unit head who will notify the University Registrar that the student shall not be withdrawn from the course in question. Only a written release from the instructor of the authorized party deciding a student appeal will permit withdrawal. However, if the student appeals the academic action and desires to withdraw from the course, the process shall be initiated by the student immediately in the normal University manner. Such withdrawal requests will be held in abeyance until a ruling on an appeal is obtained. If resolved in favor of the student, the withdrawal request will be processed at the time. The individual empowered to rule on the student appeal shall appropriately notify both the University Registrar and the Director of the OSRR or designee of the outcome. For additional information regarding Academic Behavior Violations, see the current Golden Rule.

Grade System

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

<table>
<thead>
<tr>
<th>Grades</th>
<th>Grade Points 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>
</tr>
<tr>
<td>C-</td>
<td>1.75</td>
</tr>
<tr>
<td>D+</td>
<td>1.25</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>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 2045, 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 2014.

Other Actions

<table>
<thead>
<tr>
<th>Grade Points</th>
<th>Other Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
</tbody>
</table>
Academic Regulations and Procedures

**N** No grade reported by instructor (followed by grade) -

**R** Repeated course (Grade Forgiveness) -

**S** Satisfactory (w/credit)/Satisfactory Progress -

**T** (followed by grade) Subsequently repeated (no credit) -

**U** Unsatisfactory (no credit) -

**W** Withdrawn -

**WH** Withdrawn Failing -

**WF** Health Form Withdrawal -

**WM** Medical Withdrawal -

**WP** Withdrawn Passing -

**X** Audit (no credit) -

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 earned by the total number of semester hours attempted, less hours resulting from NC, W, WP, and I grades. The GPA for graduation requirement is a minimum UCF 2.0 (C).

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

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

Course #1 B+ 3 semester hours X 3.25 grade points = 9.75

Course #2 A- 3 semester hours X 3.75 grade points = 11.25

Course #3 A 4 semester hours X 4.00 grade points = 16

Course #4 B 3 semester hours X 3.00 grade points = 9

= 13 semester hours = 46 total grade points

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

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

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

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

**Incomplete Grade**

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

**Grade Change**

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

**Grade Reports**

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

**Attendance, Absences, or Unsatisfactory Work**

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

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

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

**Classroom Responsibility**

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

**Student Conduct**

Students are subject to federal and state laws and local ordinances as well as regulations prescribed by the University of Central Florida and the Florida Board of Governors. The breach or violation of any of these laws or regulations may result in disciplinary action. Detailed conduct regulations and procedures are presented in The Golden Rule. A person applying for admission to UCF who has declared a violation of conduct policies at a previous college or university or has been charged with a violation of the law (including traffic violations that resulted in a fine of $200 or more) may have circumstances of the case reviewed by the Office of Student Conduct (SRC 154) to consider eligibility for admission.

**Religious Observances**

It is the policy of the University of Central Florida to reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. A student who desires to observe a religious holy day of his or her religious faith will notify all of his/her instructors and be excused from classes to observe the religious holy day.
The student will be held responsible for any material covered during the excused absence, but will be permitted a reasonable amount of time to complete any work missed. Where practicable, major examinations, major assignments, and University ceremonies will not be scheduled on a major religious holy day.

Students who are absent from academic or social activities because of religious observances will not be penalized. A student who believes that he/she has been unreasonably denied an educational benefit due to his/her religious belief or practices may seek redress in accordance with Rule 6C7-5.0031, Student Grievance Procedure, as listed in The Golden Rule.

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

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

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

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

Other Student Classifications:

- Auditor: A student registered for any credit course who is not seeking credit.
- Co-op Student: A student enrolled in the Center for Cooperative Education and Applied Learning Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op academic calendar: a co-op student either is on assignment or attending class during each term.
- Special Student: A student of demonstrated academic ability who does not meet the regular requirements for admission (Early Admission, non-degree-seeking, transient, and auditor)
- Temporary: A student who applied before the deadline and who is permitted to register and attend class pending completion of the admission file.
- Transient: Students temporarily registered (for one semester) at UCF with the approval of another university or college where they are regularly enrolled, or a UCF student temporarily in attendance at another university or college, with the approval of UCF. A UCF student may not be enrolled as a transient student in another institution during the term in which the baccalaureate degree or the A.A. degree is to be earned.
- 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 the student maintains a 4.0 GPA, complete 12 or more hours, excluding satisfactory/unsatisfactory course work, and did not earn any “I,” “U,” “N,” “NC” or “WF” grades during a given term. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and President’s Honor Roll Certificate was not awarded.

Academic Honors

President’s Honor Roll Certificate (Full-Time Award)
The President’s Honor Roll Certificate (Full-Time Award) is awarded in recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA in two consecutive part-time terms. The student must complete at least 15 hours, with no more than 11 in each consecutive term, excluding satisfactory/unsatisfactory course work, and not earn any “I,” “U,” “N,” “NC” or “WF” grades during a term. Hours utilized in the awarding of a President’s Honor Roll Certificate may not be utilized in the determination of a subsequent certificate. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and President’s Honor Roll Certificate was not awarded.

Dean’s List
The Dean’s List is compiled in recognition of scholastic honors to degree-seeking undergraduate students who earn a minimum 3.4 GPA, complete a minimum of 12 credit hours, earn no grade less than “C” (2.0) and no “I,” “U,” “N,” “NC” or “WF” grades during a term. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and Dean’s List was not awarded.

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

1. Attain an overall grade point average that is in the upper 10 percent of the range established by all students graduating in the same college/school during the previous two years;
2. Attain at least a 3.2 overall grade point average; and,
3. Honors awarded will be:
   - Summa Cum Laude for those students in the upper 2.5 percent;
   - Magna Cum Laude for those students in the upper five percent, but not in the upper 2.5 percent;
   - Cum Laude for those students in the upper ten percent, but not in the upper five percent.

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

Grade Forgiveness
Grade Forgiveness offers a student the opportunity to retake a course and earn a higher grade that will be substituted for the previous grade by which the student is eligible for the Grade Forgiveness policy. 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. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and President’s Honor Roll Certificate was not awarded.

1. 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;
2. 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.
3. Students who earn a grade of “P” or “S” in a course and earn a higher grade that will be substituted for the previous grade by which the student is eligible for the Grade Forgiveness policy. 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. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and President’s Honor Roll Certificate was not awarded.
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 suspension). In addition, no academic records can be altered after a student graduates;
10. Grade Forgiveness is not retroactive and, therefore, may not be used for a course repeated before Fall 1981. If a student who repeated a course at UCF before 1981 and did not use the previous forgiveness policy may repeat the course again. In this case, the lower of the previous two grades will be forgiven. This special circumstance is the only one in which a student will be allowed to repeat a course more than once; and;
11. With prior approval from the Dean’s office in which the course is offered, a student may substitute a course different from the original one if: 1) the substitute course reflects a change in prefix, number, hours, or title but not in substance; or 2) the substitute course replaces a course no longer offered by UCF.

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

Academic actions are shown on Polaris 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."

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

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

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

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

Readmission
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 regionally accredited institution since leaving UCF, the student must request an official transcript be sent to the Registrar’s Office. If the student was previously admitted to a UCF limited-access program, the student will be placed in pending status for that major and must apply to the college for readmission to the program. Plus or minus grades will transfer for coursework 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. 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:
Academic Regulations and Procedures

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

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

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

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

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

Readmission Prior to Completion of the Required Suspension

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

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

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

Dropping or Withdrawing During Readmitted Term

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

Limitations on the Number of Readmission Appeals

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

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

Non-Academic Admission Clearances

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

Appeal

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

Admissions and Standards Committee

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

Appeal

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

Right of Appeal

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

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

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

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

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

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

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

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

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

a. A completed "Application for Readmission as an Exception to University Policy Form";

b. Written statement indicating the extenuating reasons for the previous academic difficulties and a plan for ensuring success in future terms;

c. Any supporting documentation as directed by the college, school or other University personnel;

d. Any additional supporting documentation (optional); and,

UCF REGULATIONS & PROCEDURES
Academic Regulations and Procedures

Admissions and Standards Committee

Academic Amnesty Program

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

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

1) Gain the written support for the Academic Amnesty Program from the student's college or school and present to the Admissions and Standards Committee an academic plan of action approved by the college advising office. This plan will include the following:
   a. The specific 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 Admissions and Standards Committee.

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

Athletic Eligibility and Retention Committee

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

Name Changes

To change the legal name maintained on the student’s official UCF record, the student must submit a completed “Change of Name” form and supporting documentation to the appropriate UCF office. Attach to the form a copy of a legal name change document (e.g., marriage certificate, divorce decree, etc.). Undergraduate students must submit the form to the Registrar’s Office (MH 161). Graduate students must submit the form to the Graduate Studies Office (MH 230). Current UCF employees and those students who have been UCF employees within twelve months of the date the name change is requested must submit the form to the Human Resources Office (12565 Research Parkway). The “Change of Name” form is available from the Registrar's Office at MH 161 or online at http://registrar.ucf.edu.

Address and E-Mail Changes

The student’s address is obtained from the “Application for Admission or Readmission.” It is the student’s responsibility to make appropriate changes to the address as they occur. Address and e-mail changes can be made on Polaris (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 available on the Registrar’s Office website at http://registrar.ucf.edu. A student’s academic record can be released only upon written authorization signed by the student. Telephone and e-mail requests are not accepted. Transcripts cannot be released if the student is on hold due to a financial obligation to the University. Transcripts 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://registrar.ucf.edu/ or call 407-823-3100. Transcripts may be sent electronically to other Florida public institutions. Transcripts not claimed with 30 days of printing will be discarded and must be reordered. A $5.00 per reordered transcript fee must be submitted with the reorder request. Grades are available from Polaris at https://My.ucf.edu.

Third Attempt Course Repeat Surcharges

All students enrolled in undergraduate courses for the Fall 1999 semester and beyond are subject to an additional surcharge fee when they enroll in the same undergraduate college credit course three or more times. Completed courses, withdrawals, and courses with incomplete grades are counted as attempts, including courses repeated in order to raise the GPA or to achieve a specific grade. Courses that specify they may be repeated for credit are exempt. Students seeking exemptions for extenuating circumstances or financial hardship may submit a written petition with documentation to the Fee Appeals Committee, Student Accounts Office (MH 107). Exemptions to the third attempt surcharge will be considered through a Fee Appeal Process.

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

Extenuating Circumstances

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

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

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

Financial Hardship:

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

1) Qualification for federal need-based financial aid; or
2) Other documented financial hardship may be
Major, Minor, Undergraduate Certificate Changes

**Majors**

The University assigns the major that the student indicated on the “Application for Admission or Readmission.” It is the student’s responsibility to make appropriate major changes. Students who change majors between different colleges (including the Rosen College of Hospitality Management) 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 “Business”), the student must adopt the most current catalog and the University automatically will update the catalog year when processing the change in major. If they have not interrupted residency, students entering the University with “Undeclared” or “Undecided” category may retain their catalog when initially selecting a major. The “Undergraduate Major Change Form” is available at the college and school advising offices of from the Registrar’s Office website at http://registrar.ucf.edu. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

**Minors**

A minor is a complement to a bachelor’s degree program/major requiring at least 18 credit hours in a field. A student may declare a minor at any time during the first term of enrollment up to but no later than the submission of the “Intent to Graduate Form.” Students are urged to declare the 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 the same 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 conferred, 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 from completing all requirements for an undergraduate Certificate program. Students must be admitted in a degree seeking program to be eligible to receive an undergraduate Certificate. Certificate programs may not be taken independently of a degree program. All graduation requirements (i.e., the certificate and major/minor) must be from the same UCF Undergraduate Catalog for which a student is eligible. Certificates may be certified at any time during the student’s undergraduate career. Some certificates may restrict awarding the certificate to time of degree completion. The undergraduate Certificate is awarded upon completion of the certificate requirements as determined by college for each specific certificate. The Undergraduate Certification form is available at the college and school advising offices.

**Student Records**

Student records submitted become the property of the University and cannot be returned to the student or released to a third party. Copies of student records will be released only upon receipt of a written request signed by the student. Student records are stored in paper form or 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. These rights 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 the right to a hearing;

3. **The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosures 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 responsibilities; and

4. **The right to file a complaint with the U.S. Department of Education concerning alleged failures by a State University to comply with the requirements of FERPA.** The name and address of the office that administers FERPA is:

   Family Policy Compliance Office
   U.S. Department of Education
   400 Maryland Avenue, SW
   Washington DC, 20202-4605

**Directory Information**

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

- name
- current mailing address
- telephone number
- e-mail address
- date of birth
- major field of study
- dates of attendance
- enrollment status
- degrees and awards received
- participation in officially registered activities and sports
- athletes’ height and weight.

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

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score of 3</th>
<th>GEP Usage</th>
<th>Score of 4</th>
<th>Score of 5</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>ARH 1000</td>
<td>ARH 2050 and 2051</td>
<td>Same as 4</td>
<td>CUL &amp; HIS Found 2</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>BSC 1005/1005L</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>BSC 2010C and BSC 2011C</td>
<td></td>
</tr>
<tr>
<td>Calculus AB</td>
<td>MAC 2311</td>
<td>MAT Found 1</td>
<td>Same as 3</td>
<td>MAT Found 1</td>
<td></td>
</tr>
<tr>
<td>Calculus BC</td>
<td>MAC 2311</td>
<td>MAT Found 1</td>
<td>Same as 4</td>
<td>MAT Found 1</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHM 1020 &amp; 1020L</td>
<td>SCI Found 1</td>
<td>CHM 2045C or CHM 2045L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science A</td>
<td>CGS 1075</td>
<td>MAT Found 2</td>
<td>Same as 3</td>
<td>MAT Found 2</td>
<td></td>
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<tr>
<td>Computer Science AB</td>
<td>CGS 1076</td>
<td>MAT Found 2</td>
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<td></td>
</tr>
<tr>
<td>Economics: Micro</td>
<td>ECO 2023</td>
<td>SOC Found 1</td>
<td>Same as 3</td>
<td>SOC Found 1</td>
<td></td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>Same as 4</td>
<td>COM Found 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>Same as 4</td>
<td>COM Found 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>Environmental Science</td>
<td>ISG 1051</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>European History</td>
<td>EUH 1009</td>
<td>ELU 2000 and 2001</td>
<td>Same as 4</td>
<td>CUL &amp; HIS Found 1</td>
<td></td>
</tr>
<tr>
<td>Government and Politics: Comparative</td>
<td>CPO 1002</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>SOC Found 1</td>
<td></td>
</tr>
<tr>
<td>Government and Politics: United States</td>
<td>POS 2041</td>
<td>SOC Found 1</td>
<td>Same as 3</td>
<td>SOC Found 1</td>
<td></td>
</tr>
<tr>
<td>Human Geography</td>
<td>GEO 1400</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>SOC Found 1</td>
<td></td>
</tr>
<tr>
<td>Music Theory</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Physics B</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Physics C: Electricity / Magnetism</td>
<td>PHY 2054C</td>
<td>SCI Found 1</td>
<td>Same as 4</td>
<td>SCI Found 1</td>
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<tr>
<td>Studio Art: Drawing Portfolio</td>
<td>No direct equivalent</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>SOC Found 2</td>
<td></td>
</tr>
<tr>
<td>Studio Art: 2-D Design Portfolio</td>
<td>No direct equivalent</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>SOC Found 2</td>
<td></td>
</tr>
<tr>
<td>Studio Art: 3-D Design Portfolio</td>
<td>No direct equivalent</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>SOC Found 2</td>
<td></td>
</tr>
<tr>
<td>United States History</td>
<td>AMH 1000</td>
<td>AMH 2010 and 2020</td>
<td>Same as 4</td>
<td>CUL &amp; HIS Found 1</td>
<td></td>
</tr>
<tr>
<td>World History</td>
<td>WOH 2022</td>
<td>CUL &amp; HIS Found 1</td>
<td>Same as 3</td>
<td>CUL &amp; HIS Found 1</td>
<td></td>
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</tbody>
</table>

### INTERNATIONAL BACCALAUREATE

<table>
<thead>
<tr>
<th>Exam</th>
<th>GEP Usage</th>
<th>5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>BSC 1005/1005L</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHM 1020 &amp; 1020L</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Computer Science</td>
<td>CGS 1078</td>
<td>MAT Found 2</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Design Engineering</td>
<td>ETI 1410</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Economics: Micro</td>
<td>ECO 1000</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>English A1</td>
<td>ENC 1101</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Environmental Systems</td>
<td>ISG 1050</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Further Mathematics (Advanced Mathematics)</td>
<td>MHR 1202</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>History</td>
<td>WOH 1030</td>
<td>CUL &amp; HIS Found 1</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Math Methods</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
<td>MAC 1105 and MAC 1140</td>
</tr>
<tr>
<td>Math Studies</td>
<td>MAT 1033</td>
<td>MAT Found 1</td>
<td>MAC 1105 and MAC 1140</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MAC 1147</td>
<td>MAT Found 2</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Music</td>
<td>MUL 2010</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Philosophy</td>
<td>PHI 1999</td>
<td>Same as 4</td>
<td>SCI Found 1</td>
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<tr>
<td>Physics</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Psychology</td>
<td>PSY 2012</td>
<td>SOC Found 2</td>
<td>SOC Found 2</td>
</tr>
<tr>
<td>Social Anthropology*</td>
<td>ANT 2410</td>
<td>SOC Found 2</td>
<td>SOC Found 2</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>THE 2000</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>ARH 1999</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
</tbody>
</table>

* This use for General Education applies only to I.B. credit.
A score of 3 earns a minimum of one semester (min. 3 credits) of Advanced Placement Literature (all modern languages) awarded for AP foreign language exams.

No literature credit will be awarded for International Baccalaureate exams. The table below labeled “International Baccalaureate” provides information related to the International Baccalaureate program credit.

### International Baccalaureate (all modern languages)

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

### Language B (most common)

IB Diploma recipients (standard or higher level) earn a minimum of one semester (3 credits) of language credit at the Elementary Language II or equivalent level (usually 1121) for a score of 4. Diploma recipients (standard or higher level) and non-diploma recipients (higher level only) who score 5-7 earn a minimum of two semesters (min. 6 credits) of Elementary Language II and Intermediate Language I or their equivalents (usually 1121/2200) level. No literature credit will be awarded for International Baccalaureate Language B exams.

### Language A2 (language and literature courses for highly proficient speakers; uncommon in Florida)

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

### Advanced Placement Literature (all modern languages)

A score of 3 earns a minimum of one semester (min. 3 credits) of introductory literature. A score of 5 earns a minimum of two semesters (min. 6 credits) of introductory literature.

### Advanced Placement Latin

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

### International Baccalaureate Program (see table on previous page)

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.

### Language A1 (literature courses for native speakers; lan-

### COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

<table>
<thead>
<tr>
<th>&quot;C&quot;-level pass.</th>
<th>GEP Usage</th>
<th>&quot;B&quot;-Level Pass</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting, Principles of</td>
<td>ACG 1001</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Algebra, College</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Algebra-Trigonometry, College</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>American Government</td>
<td>POS 2041</td>
<td>SOC Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>American Literature</td>
<td>AML 1000</td>
<td>CUL &amp; HIS Found 2</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Biology, General</td>
<td>BSC 1005</td>
<td>Sci Found 2</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Business Law, Introduction to</td>
<td>EDP 1241</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Calculus with Elementary Functions</td>
<td>MAC 2233</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Chemistry, General</td>
<td>CHM 1020</td>
<td>Sci Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Educational Psychology, Introduction to</td>
<td>EDP 1005</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>English Literature</td>
<td>ENL 1000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>History of the United States I: Early Colonizations to 1877</td>
<td>-</td>
<td>AMH 1010</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>History of the United States II: 1865 to Present</td>
<td>-</td>
<td>AMH 2020</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>-</td>
<td>DEP 2041</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Information Systems and Computer Applications</td>
<td>CGS 1077</td>
<td>MAT Found 2</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Macroeconomics, Principles of</td>
<td>MGF 1107</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Management, Principles of</td>
<td>MAN 2021</td>
<td>ECO 2013</td>
<td>Same as &quot;C&quot;</td>
</tr>
<tr>
<td>Marketing, Principles of</td>
<td>MAR 2011</td>
<td>ECO 2020</td>
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<tr>
<td>Mathematics, College</td>
<td>MGF 1107</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Microeconomics, Principles of</td>
<td>MGF 1107</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Psychology, Introductory</td>
<td>-</td>
<td>ECO 2020</td>
<td>Same as &quot;C&quot;</td>
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<tr>
<td>Sociology, Introductory</td>
<td>SYG 2000</td>
<td>SOC Found 1</td>
<td>Same as &quot;C&quot;</td>
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<tr>
<td>Trigonometry</td>
<td>MAC 1114</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
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<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>-</td>
<td>EHU 2000</td>
<td>Same as &quot;C&quot;</td>
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<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>-</td>
<td>EHU 2000</td>
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</table>

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## CAMBRIDGE AICE EXAMS

<table>
<thead>
<tr>
<th>Exams</th>
<th>Passing score of &quot;E&quot; or &quot;D&quot;</th>
<th>GEP Usage</th>
<th>Passing score of &quot;C&quot;, &quot;B&quot;, or &quot;A&quot;</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art and Design (AS-Level)</td>
<td>Credit at discretion of faculty; submission of portfolio recommended</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Art and Design (A-Level)</td>
<td>Credit at discretion of faculty; submission of portfolio recommended</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Biology (AS-Level)</td>
<td>none</td>
<td>BSC 1005/1005L SCI Found 2</td>
<td>SCI Found 2</td>
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</tr>
<tr>
<td>Biology (A-Level)</td>
<td>none</td>
<td>BSC 2010C SCI Found 2</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>Chemistry (AS-Level)</td>
<td>none</td>
<td>CHM 1020/1020L SCI Found 1</td>
<td>SCI Found 1</td>
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</tr>
<tr>
<td>Chemistry (A-Level)</td>
<td>none</td>
<td>CHM 2045C SCI Found 1</td>
<td>SCI Found 1</td>
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</tr>
<tr>
<td>Computing (AS-Level)</td>
<td>CGS 1073</td>
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</tr>
<tr>
<td>Computing (A-Level)</td>
<td>CGS 1073 and CGS 1074</td>
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<tr>
<td>Economics (AS-Level)</td>
<td>ECO 1000</td>
<td>ECO 2013 and ECO 2023 SOCI Found 1</td>
<td>SCI Found 1</td>
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<tr>
<td>English (AS-Level)</td>
<td>ENC 1101 or ENC 1102*</td>
<td>ENC 1101 or ENC 1102# COM Found 1</td>
<td>ENC 1101/1102 or ENC 1102/LIT 1006#</td>
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<tr>
<td>Environmental Science (AS-Level)</td>
<td>EVR 1001C</td>
<td>SCI Found 2</td>
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<td>SCI Found 2</td>
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<tr>
<td>Geography (AS-Level)</td>
<td>GEA 1000</td>
<td>SCI Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Geography (A-Level)</td>
<td>GEO 1200 and GEO 1400</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>History (AS- or A-Level)</td>
<td>Three credits for each successfully passed paper, subject to institutional review</td>
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<td>same</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Foreign Language (Language Exams, AS or A-Level)</td>
<td>At least one semester of language credit up to elementary II level (usually 1121)</td>
<td>At least one semester of language credit up to intermediate II level</td>
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<td>SCI Found 2</td>
</tr>
<tr>
<td>Mathematics (A-Level)</td>
<td>none</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td></td>
</tr>
<tr>
<td>Mathematics (A-Level)</td>
<td>none</td>
<td>MAC 2311</td>
<td>MAT Found 1</td>
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<tr>
<td>Physics (AS-Level)</td>
<td>PHY 2053C</td>
<td>PHY 2053C/2054C SCI Found 1</td>
<td>SCI Found 1</td>
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<tr>
<td>Psychology (A-Level)</td>
<td>PSY 2012</td>
<td>PSY 2012</td>
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<tr>
<td>Sociology (AS-Level)</td>
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<td>SCI Found 2</td>
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<tr>
<td>Sociology (A-Level)</td>
<td>none</td>
<td>none</td>
<td>SCI Found 2</td>
<td></td>
</tr>
</tbody>
</table>

* If the student has previous credit for ENC 1101, credit will be rewarded for ENC 1102.

# If the student has previous credit for ENC 1101 and ENC 1102, credit will be awarded for LIT 1006.

### DANTES SUBJECT STANDARDIZED TESTS (DSST)

<table>
<thead>
<tr>
<th>Exam Credit</th>
<th>Course Number (3 credits per exam)</th>
<th>GEP Usage</th>
<th>Passing Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Math</td>
<td>QMB 1001</td>
<td>C</td>
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</tr>
<tr>
<td>Criminal Justice</td>
<td>CCJ 1000</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Environment and Humanity</td>
<td>EVR 1017</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foundations of Education</td>
<td>EDF 1000</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Counseling</td>
<td>PSC 1200</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Here’s to Your Health</td>
<td>HSC 1100</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Human Resources Management</td>
<td>MAN 1300</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Human/Cultural Geography</td>
<td>GEO 1400</td>
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<td></td>
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<tr>
<td>Introduction to Business</td>
<td>GEB 1011</td>
<td>C</td>
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<td>Introduction to Law Enforcement</td>
<td>CCJ 1000</td>
<td>C</td>
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<td>Lifespan Developmental Psychology</td>
<td>DEP 2004</td>
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<td>BAN 1501</td>
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<td>GLY 1000</td>
<td>SCI Found 2</td>
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<td>Principles of Financial Accounting</td>
<td>ACG 1001</td>
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<tr>
<td>Principles of Physical Science I</td>
<td>PSC 1121</td>
<td>SCI Found 1</td>
<td>B</td>
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<tr>
<td>Principles of Statistics</td>
<td>STA 1014</td>
<td>MAT Found 2</td>
<td>C</td>
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</table>
grades other than English)
No direct equivalent. Content of Language A1 varies widely. Minimum 3 credits in literature for score of 4 (Diploma holders only), 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

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

College Level Examination Program (CLEP)
(see table on page 59)
Credit is awarded for scaled scores of 50 or higher on computer-based CLEP exams taken after 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 semester hours of graduation; b) has not previously received comparable college course credit in the CLEP examination area; c) does not receive comparable college credit in the CLEP examination area in the same term the examination is taken or in a subsequent term; d) has not previously completed, failed, nor received credit by UCF (transfer or otherwise) in a more advanced course in the examination area; and e) does not complete nor receive credit by UCF (transfer or otherwise) in a more advanced course during the semester in which the CLEP examination is taken.

The table labeled “College Level Examination Program” provides information related to the CLEP examination areas and subtest areas for which credit is awarded. More detailed information about the program, including course syllabi, can be found online at http://www.getcollegecredit.com.

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 1120-1121). A score at or above the second CLEP threshold level earns a minimum of two semesters (6 credits) of Elementary Language I and II or equivalent level (generally numbered 1120-1121). No literature credit should be awarded for CLEP foreign language exams.

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

Cambridge AICE Exams
(see table on page 60)
The Advanced International Certificate of Education (AICE) program is an international, advanced secondary curriculum and assessment program equivalent to the British system of “A-Level.” Information about the program, including course syllabi, can be found online at http://www.cie.org.uk/q_and_s/gce_a/index.html.

DANTES Examination Credit
(see table on page 60)
The University will award credit to students presenting qualifying scores in DANTES examinations. The table labeled “DANTES Subject Standardized Tests (DSST)” provides information related to the Dantes Examination credit. For additional information: www.getcollegecredit.com.

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

Director: Mathilda E. Harris; 407-882-2300; Fax: 407-275-4386; Research Pavilion, Suite 263, P.O. Box 163105, Orlando, FL 32816-3105; http://www.international.ucf.edu/

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

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

The general goals stated in the UCF Five-Year Plan for International Studies are to:

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

Study Abroad Programs

There are numerous benefits from studying abroad. It enhances thinking skills and motivation to learn, and increases confidence, maturity and empathy for others. In addition, study abroad programs are naturally positioned to promote awareness of cultural differences. 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 include the Department of Foreign Languages intensive programs in French (Paris, France), German (Muenster, Germany) Italian (Bergamo, Italy) and Spanish (Madrid, Spain); Social Work Department programs in South Africa and Russia; Criminal Justice in Barbados, Nursing in Sweden, 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 Juniors or Seniors who have a minimum 3.0 GPA. Examples of current exchanges are located in Australia, Griffith University; China, Qingdao University; France, Universities of Angers and Paul Sabatier; Germany, University of Koblenz, Ilmenau Technical University; Japan, Meikai University; Jordan, Princess Sumaya University, College for Technology; Peru, University of Lima; Sweden, universities of Lund, Jonkoping, Mallardalen, and Dalarna; United Kingdom, University College Northampton.

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 other 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 provide program advice and general information about options. You can find information at www.international.ucf.edu, or contact the office at 407-882-2300.

Experiential Learning, Undergraduate Studies

Director: Dr. Sheri Dressler, Howard Phillips Hall, Suite 208 (407) 823-2307, www.csel.ucf.edu

Experiential Learning is an instructional department reporting to Undergraduate Studies. It functions in collaboration with Career Services in a joint venture called Career Services and Experiential Learning (CSEL). Its mission is: 1) to assure that quality experiential learning opportunities are available to all UCF students before graduation, and 2) to create meaningful and productive educational partnerships with academic departments and community partners locally, nationally, and internationally.

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 and professional competencies they need to be well prepared upon graduation.

- 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.
- Internships provide similar benefits to co-op experiences. They are usually one-semester, paid or unpaid, for credit, and occur toward the end of a student’s program of study. They are available through the Experiential Learning department or through departments in Colleges. Contact information for department internship coordinators is on the Experiential Learning website.
- Service-Learning is a means of incorporating experiential learning into academic courses so that students learn course content through a service experience. Through this process, students gain an appreciation for civic engagement while using course content in a real-world environment. Courses using this approach are designated with SL in course listings so that students can select to participate in this type of learning experience. Current co-op and internship opportunities through Experiential Learning are listed on our website Under Experiential Learning. To apply for these opportunities students may complete an application online any time during the year, preferably one semester before they want to participate to allow time to obtain an appropriate learning experience.

Division of Continuing Education

Assistant Vice President/Director: J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390, Orlando, FL 32826; 407-882-0260; Fax: 407-882-0244

The Division of Continuing Education (DCE) serves as the unit within Academic Affairs for the centralized administration of continuing edu-
cation at UCF. In partnership with the academic, business, and 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 professional, K-12 students, domestic and international corporate, and local/state/federal government.

Center for Multilingual Multicultural Studies

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

Using contemporary teaching methodology and computer-assisted instruction, the Center for Multilingual Multicultural Studies provides quality English language instruction for international students. Four levels of instruction are offered which range from beginning to advanced, and special attention is given to preparing students for academic courses in their specialized fields of study. Full-time students enrolled at the advanced level may elect to take courses as non-degree-seeking students while enrolled in the Intensive English program. Students are required to take an entry placement test to determine their level of proficiency. Student (F-1) visas are extended to qualified applicants. The Center also offers English for Special Purposes for international business personnel.

The Center for Multilingual Multicultural Studies at University of Central Florida is accredited by the Commission on English Language Program Accreditation (CEA) and agrees to uphold the CEA standards for English Language Programs. For further information about this accreditation, please contact the Commission of English Language Program, Accreditation, 700 S. Washington Street, Suite 200, Alexandria, VA 22314, (703) 518-2480.

Off-Campus College Credit Programs

Director: Stephen Miller; Division of Continuing Education, Bldg #81, P.O. Box 160950, Orlando, FL 32816-0950; 407-882-0260; Fax: 407-882-0244

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

Institutes and Centers for Research

Center for Applied Human Factors in Aviation (CAHFA)

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

The Center for Applied Human Factors in Aviation (CAHFA) has as its mission the enhancement of safety in the nation’s airspace system through applied human factors research, systems design, and training strategies. Chartered in 1990, CAHFA is a research consortium established between UCF and Charter partner Embry-Riddle Aeronautical University, Daytona Beach, Florida. CAHFA’s professional staff maintains offices on both campuses. The complementary 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; 407-823-6202

The mission of the Dick Pope Sr. Institute for Tourism Studies is to improve the quality of the tourism product and increase the benefits of tourism for the industry, the state, and the local community. To this end the Institute is involved in a variety of research projects and educational programs.

The Institute’s research includes the collection, development, and dissemination of information relevant to the tourism and hospitality industry in the areas of marketing, consumer behavior and visitor satisfaction, feasibility, economic motivation, and forecasting. Some of the Institute’s patrons include tourism promotion agencies at the state and local levels; tourism development commissions; professional associations; and private enterprises such as attractions, hotels, motels, food-service establishments, ground and air transportation companies, travel agencies and tour operators, and other related businesses. The Institute devotes significant efforts to educating the public about the tourism industry in Florida and internationally, and about its contribution to the social and economic welfare of the community at large.

Executive Development Center

Director: Dr. Jai Ganesh; 407-823-2446

The University of Central Florida College of Business Administration is proud to serve as an executive education center to the local, state, national, and international business communities. The Executive Development Center was established to provide leading executive education programs to both individuals and organizations. The Center helps professionals from all industries become more dynamic leaders, more effective managers, and more valuable team members. Corporations benefit from participating in executive education programs by developing more productive and resourceful workforces that can meet the challenges of today’s changing marketplace and tomorrow’s opportunities.

The Center serves as a valuable resource in executive training and development by offering programs that address critical issues for managers and business leaders. These programs are offered in a variety of formats suitable for any individual or corporation through:
- Conference services;
- Customized corporate programs;
- Executive MBA Program;
- Public enrollment programs;
- International seminars and exchange programs;
- Trade missions for the development of potential economic and academic partners.

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

Florida Canada Linkage Institute

Director: Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649; E-mail: fcll@mail.ucf.edu

The Florida Canada Linkage Institute was created by the Florida Legislature to assist in the development of stronger economic and social ties between Florida and Canada. Linkage is developed through promotion of expanded public/private dialogues on cooperative research and technical assistance, cultural exchange, enhancement of language training, and student/faculty exchange programs, culture, and trade between Canada and Florida. The Institute serves the entire State University System. The Institute administers the Florida Out of State Tuition Fee Exemption Program for Canadian students to study in Florida’s universities and community colleges for the same tuition fees as Florida residents. The awards are competitive and limited to 25 FTE per year.

Florida Eastern Europe Linkage Institute

Director: Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649; E-mail: eeli@mail.ucf.edu

The Florida Eastern European Linkage Institute is statewide and is designed to create and foster educational, commercial, cultural and social exchanges between the countries in central and eastern Europe and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located in the College of Health and Public Affairs on the main campus, promotes the development of linkage through expanded public/private 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 fees as Florida
Special Academic Programs and Research Institutes

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; 407-317-7745, Fax 407-317-7750.

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

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

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its facilities are located on the Cocoa campus of UCF at Brevard Community College. FSEC has gained national and international respect for its programs on photovoltaics, hydrogen from renewables, 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 technicians 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)
Director: Dr. Ron Phillips, Mail Stop: FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsi@fsi.ucf.edu; Website: http://fsi.ucf.edu.

The mission of the Florida Space Institute is to support and develop Florida’s space industry through applied and basic university research and university education in space-related fields using practice-based teaching. FSI conducts research, develops and transfers technology, teaches courses, and provides services to the scientific community. In cooperation with the Florida Space Authority, NASA / Kennedy Space Center, the Air Force, and statewide industry infrastructure, FSI works to facilitate engineering and science interactions within the state.

FSI, a state of Florida Type I Institute within UCF, has 10 member schools and provides space related education and research to undergraduate and graduate students at the Space Center. Research involves students in real-world space issues within the existing space industry environment of the Space Center. This environment permits students and faculty to interact with Space Center engineers and researchers and to use the extensive facilities of the Space Center.

FSI labs and classrooms are located at the Space Center. Additionally, we operate a magnetic launch assist facility and launch sub-orbital sounding rockets from our dedicated educational launch pad at the Cape Canaveral Air Force Station. This combination of facilities at the Space Center provides students with an unequalled opportunity to obtain an education and experience, through practice-based teaching, in the areas of space science and engineering.

Institute for Simulation and Training (IST)
Director: Randall Shumaker; 3280 Progress Drive, Orlando, FL 32826-0544; 407-882-1300; 407-658-5039; E-mail: shumaker@ist.ucf.edu; Website: http://www.ist.ucf.edu

The Institute for Simulation and Training (IST) was established to conduct research and develop technology that advances the state of the art in affordable and effective simulation capabilities and training systems. Driven by a proven record of research achievement, IST has developed unique qualifications and is positioned to provide the technology to civilian markets. IST communicates the results of its research through seminars, conferences, publications, and workshops. In cooperation with UCF and the University of South Florida, and with considerable participation from area corporations, IST researchers are helping to promote economic growth in the modeling and simulation industry along central Florida’s high tech corridor.

IST actively uses UCF in the development of simulation-related curricula. First in the nation with a master’s degree in simulation systems, the University in collaboration with IST now offers a truly multidisciplinary PhD in modeling and simulation. Both master’s and doctoral programs accept applications from graduate students in computer science, digital media, psychology, engineering, mathematics, and related disciplines. The institute annually employs more than 80 graduate and undergraduate students in a variety of research and support positions. For many outstanding graduates, IST is a launch pad to a career in the simulation industry.

The institute includes in its efforts the development of research projects with potential commercial applications and adaptation of military technology to civilian markets. IST communicates the results of its research through seminars, conferences, publications, and workshops. In cooperation with UCF and the University of South Florida, and with considerable participation from area corporations, IST researchers are helping to promote economic growth in the modeling and simulation industry along central Florida’s high tech corridor.

Institute of Statistics and Data Mining
Director: Dr. Nizam Uddin; 407-823-2289.

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

Institute for Technical Documentation
Director: Karla Saari Kitalong; CNH 307E; 407-823-6257.
The Institute for Technical Documentation is a research and teaching center within the English Department. Its activities include technical communication consultation, usability evaluation and testing, and the development of communication training programs for clients. The Institute's experienced faculty and established facilities afford a strong rapport with local businesses and the capacity to assist in a wide variety of technical documentation projects and services.

Oak Ridge Associated Universities (ORAU)

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

Since 1989, students and faculty of University of Central Florida have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 91 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Throughout the Oak Ridge Institute for Science and Education (ORISE), the DOE facility ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in a number of programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean science, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are specially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering related disciplines, and details on locations benefits can be found at http://www.orau.gov/orise/educ.htm.

Small Business Development Center (SBDC)

Director: Aloyse T. Polfer; National Entrepreneur Center, 315 E. Robinson St., Suite 100, Orlando FL 32801; 407-420-4850; al.polfer@bus.ucf.edu; www.bus.ucf.edu/sbdc

The Small Business Development Center (SBDC) is part of a statewide organization designed to promote economic development by responding to the needs of the small business community. The SBDC, as part of the College of Business Administration at the University of Central Florida, is responsible for a geographic area including Orange, Osceola, Lake, Volusia, Flagler, and Sumter counties. Regional centers located at Daytona Beach Community College, Brevard Community College, and Seminole Community College assist small business in those areas. Assistance is provided through workshops and individual counseling in the following areas:

- Personnel
- Marketing
- Bookkeeping
- Sources of Financing
- Business Tax
- Product Innovation
- Franchising
- Business Plan Development

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

Small Business Institute

Director: Lloyd W. Fernald, Jr.; 407-823-5725

Business schools have for many years been interested in getting students out of the classroom and involved with real business problems rather than “textbook” situations. By sponsoring the Small Business Institute program, the University of Central Florida does not only satisfy this need, but at the same time provides free professional help to small businesses in need of managerial guidance.

The SBI program uses a team of senior-level undergraduate or graduate-level students who, under faculty supervision, provide management counseling and technical assistance to small business clients. Examples of these services are: general management audits, development of business plans, establishment of accounting systems, design of inventory systems, cost analysis, pricing strategies, and evaluation of alternative markets.

The major objective of the College of Business Administration at the University of Central Florida is to educate men and women for positions of productive responsibility in business and the professions. UCF’s Small Business Institute program stresses analytic ability and the student’s learning skills in recognizing and coping with change. The Small Business Institute program at the same time provides on-the-job experience and sound academic training for the student.

Special Academic Programs and Research Institutes
Associate of Arts Degree
University of Central Florida students who satisfactorily complete 60 semester hours of acceptable college work may apply for an Associate of Arts degree. University requirements include achievement of a minimum UCF GPA of 2.0, fulfillment of the General Education Program requirements, and completion of the last 20 semester hours in residence at UCF. In addition, any student who desires to receive an A.A. degree must have satisfied the Gordon Rule requirement and passed the College Level Academic Skills Test.

The Associate of Arts degree is awarded only upon application. The application form may be obtained in Academic Services, MH 210 and completed by the end of the first week in the term in which the Associate of Arts degree is to be awarded. A student may not be enrolled as a transient student in another institution during the term in which the Associate of Arts degree is to be awarded. An Associate of Arts degree will not be awarded in the same term that the baccalaureate degree is to be awarded or in any term following the completion of the baccalaureate degree.

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

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

College of Arts and Sciences
Bachelor of Arts (B.A.)
Majors: Advertising/Public Relations, Anthropology, Art, Digital Media, English, Film, Foreign Languages Combination, French, History, Humanities, Interpersonal Communication, Journalism, Liberal Studies, Music, Organizational Communication, Philosophy, Political Science, Psychology, Radio-Television, Sociology, Spanish, Theatre

Bachelor of Fine Arts (B.F.A.)
Majors: Art, Film, Theatre

Bachelor of Music Performance (B.M.)
Bachelor of Music Education (B.M.E.)
Bachelor of Science (B.S.)
Majors: Actuarial Science, Biology, Chemistry, Digital Media, Forensic Science, Liberal Studies, Mathematics, Photography, Physics, Psychology, Social Sciences (interdisciplinary), Statistics

College of Business Administration
Bachelor of Science in Business Administration (B.S.B.A.)
Majors: Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing

Bachelor of Arts
Major: Economics

College of Engineering and Computer Science
Bachelor of Science

College of Health and Public Affairs
Bachelor of Arts (B.A.)
Majors: Communicative Disorders, Criminal Justice, Legal Studies, Public Administration

Bachelor of Science (B.S.)
Majors: Cardiopulmonary Sciences, Communicative Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Generalist Track, Health Services Administration, Legal Studies, Public Administration, Radiologic Sciences

Bachelor of Science in Nursing (B.S.N.)
Major: Nursing
Bachelor of Social Work (B.S.W.)
Major: Social Work

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

<table>
<thead>
<tr>
<th>College Awarding Minor*</th>
<th>Name of Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burnett College of Biomedical Sciences</td>
<td>Molecular Biology and Sciences</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>African American Studies, American Studies, Cognitive Sciences, Digital Media, Judaic Studies, Latin American Studies, Middle Eastern Studies, North American Indian Studies, Social Sciences-Interdisciplinary, Accounting, Business Administration (for non-Business Administration majors), Economics (for non-Business and Business majors), International Business, Management Information Systems, Marketing (for Business and non-Business majors), Real Estate (for Business and non-Business Majors), Sport Business Management (for Business Majors Only)</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>Coaching, Early Childhood Education, Exceptional Education, Fitness Training, Technical Education and Industry Training</td>
</tr>
<tr>
<td>College of Engineering and Computer Science</td>
<td>Aerospace Studies, Military Science, Space Studies, Technology and Society Information Technology, Computer Science</td>
</tr>
<tr>
<td>College of Health and Public Affairs</td>
<td>Aging Studies, American Humanics, Communicative Disorders, Criminal Justice, Emergency Management, Health Sciences, Health Services Administration, Health Information Management, Legal Studies, Public Administration, Urban and Regional Planning</td>
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<tr>
<td>Rosen College of Hospitality Management</td>
<td>Hospitality Management</td>
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<table>
<thead>
<tr>
<th>School/Department Awarding Minor*</th>
<th>Name of Minor</th>
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<tbody>
<tr>
<td>Multidisciplinary</td>
<td>Space Studies</td>
</tr>
<tr>
<td>Department of Aerospace Studies</td>
<td>Aerospace Studies (Air Force ROTC)</td>
</tr>
<tr>
<td>Department of Art</td>
<td>Art History, P.A.V.E., Art-Studio</td>
</tr>
<tr>
<td>Department of Biology</td>
<td>Biology</td>
</tr>
<tr>
<td>Department of Chemistry</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Nicholson School of Communication</td>
<td>Interpersonal Communication, Organizational Communication, Mass Communication, Magazine Journalism</td>
</tr>
<tr>
<td>Department of English</td>
<td>Technical Writing and Editing, Creative Writing, Literature, Linguistics, Writing</td>
</tr>
<tr>
<td>Department of Film</td>
<td>Cinema Studies</td>
</tr>
<tr>
<td>Department of History</td>
<td>History</td>
</tr>
<tr>
<td>Department of Mathematics</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Department of Military Science</td>
<td>Military Science (Army ROTC)</td>
</tr>
<tr>
<td>Department of Music</td>
<td>Music</td>
</tr>
<tr>
<td>Department of Modern Languages and Literatures</td>
<td>French, German, Italian, Russian, Spanish</td>
</tr>
<tr>
<td>Department of Philosophy</td>
<td>Environmental Studies, Humanities, Philosophy, Religious Studies</td>
</tr>
<tr>
<td>Department of Physics</td>
<td>Astronomy, Physics</td>
</tr>
<tr>
<td>Department of Political Science</td>
<td>Asian Studies, Political Science, Political Science/Pre-Law</td>
</tr>
<tr>
<td>Department of Psychology</td>
<td>Clinical, Human Factors, Industrial/Organizational</td>
</tr>
<tr>
<td>Department of Sociology and Anthropology</td>
<td>Multicultural Anthropology, Sociology, Anthropology</td>
</tr>
<tr>
<td>Department of Statistics</td>
<td>Statistics</td>
</tr>
<tr>
<td>Department of Theatre</td>
<td>Theatre</td>
</tr>
</tbody>
</table>

*Contact the college/school/department for the requirements for each minor.

### 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/).
is a major partner in the interdisciplinary PhD program in Biomolecular Science.

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

Degrees: Molecular Biology and Microbiology (BS, MS)
Tracks: None
Minors: Molecular Biology and Microbiology

Program in Medical Laboratory Sciences
Director: Dorilyn Hitchcock; HPA II 335A; 407-823-5932
Medical technologists may be involved in medical diagnosis, patient treatment, health screening, laboratory management, research, and laboratory education. They use highly sophisticated analytical equipment for the examination of body tissues and fluids.

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

The last two years of sequential courses constitute the upper division portion of the Program. The size of the class to be selected in the Medical Laboratory Science Program is determined by the availability of space and equipment, and available spaces in the clinical facilities. This is a limited access program that requires a separate application to the program. Preference will be given to those who apply by March 1st but applications will be accepted until the class is filled.

The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAA-CLS) 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

Biomolecular Science Center
The mission of this university-wide interdisciplinary academic center is to establish vibrant research and training programs under the general theme, “Molecular and Genomic Bases of Diseases and Therapeutics.” Center research is focused in four areas: cancer, cardiovascular disease, infectious disease, and neurodegenerative disease. The center will work 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 will establish at least 20 new faculty research teams in biomolecular science within the theme area of the center. Additional faculty will be hired in partnership with other academic units including the and . Together with the existing faculty, this growth in life sciences will create a critical mass of people conducting interdisciplinary research at the cutting edge in biomolecular science that can have a significant impact on the biomedical technology industry of the region and the state.

The Biomolecular Science will be a major vehicle for training. In addition the center intends to help establish other degree programs in cooperation with other academic units to generate a skilled workforce that can serve the region and state’s growing biomedical technology industry.
COLLEGE OF ARTS AND SCIENCES

College of Arts and Sciences
Dean: Kathryn L. Seidel; CAS 190; 407-823-2251
Interim Associate Dean: Michael Johnson; CAS 190; 407-823-2251
Interim Associate Dean: Clint Bowers; CAS 190; 407-823-2251
Interim Associate Dean: Jack McGuire; CAS 190; 407-823-2251
Interim Associate Dean: Jose Fernandez; CAS 190; 407-823-2251
Interim Associate Dean: Lyman Brodie; CAS 190; 407-823-2251
Assistant Dean: Consuelo Stebbins; CAS 190; 407-823-2251

The College of Arts and Sciences, the largest academic unit in the University, includes the following departments: Art; Biology; Chemistry; English; Foreign Languages and Literatures; History; Liberal Studies; Mathematics; Music; Philosophy; Physics; Political Science; Psychology; Sociology and Anthropology; Statistics; and Theatre. The College also houses the School of Film and Digital Media, which includes the Film program as well as Digital Media. The Nicholson School of Communication is also within the college, and includes the following divisions: Advertising/Public Relations, Interpersonal/Organizational Communication, Journalism, and Radio/Television.

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

A student enrolled in the College as an undergraduate must fulfill all University degree requirements including those for general education, as well as the particular requirements set forth within each area of specialization. Computer proficiency is determined within the student’s department of major. Depending on the program, evaluation may be via a written test, relevant projects, specific exercises within a course, or an entire course dealing with computers. To be certified for graduation, a student must achieve at least a “C” GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in each major course. Students are advised to consult their departmental advisor for specific policies. For programs with a foreign language graduate, American Sign Language is not considered a foreign language and will not fulfill the requirement.

A student whose written or oral communication in any course is deemed unsatisfactory may be referred to the Dean by the instructor. Additional coursework or an individual study program, consistent with the needs of the student, may be assigned and must be completed before the degree is granted.

Preprofessional Programs

Prelaw Program
Prelaw Advisor: Roger Handberg; CNH 414; 407-823-2608

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts background, regardless of major field. A Bachelor of Arts or Bachelor of Science degree with approximately three-fourths of the course work representing theory content is typically suggested. Majors such as English, History, Legal
Studies, Philosophy, Sociology, and Political Science meet this criterion. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in written and oral form, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that the Law School Admission Test (LSAT) be taken prior to consideration for admission. General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-law Advisor.

Advisement of pre-law students will be provided in the area where a major is chosen. For example, a pre-law student who desires to emphasize the historical foundations should seek advisement in the Department of History; for emphasis in political science advisement should be sought in the Department of Political Science; emphasis in economics should be gained through advisement in Economics programs in either the College of Arts and Sciences or the College of Business Administration; emphasis in Legal Studies can be pursued in the Department of Criminal Justice and Legal Studies in the College of Health and Public Affairs.

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

Advisement
Office of Academic Support and Information Services (OASIS) http://www.cas.ucf.edu/oasis
Director: Lee Anne Kirkpatrick; CNH 202; 407-823-2492; e-mail: oasis@ucf.edu
The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance in the College of Arts and Sciences. OASIS assists students in the College with degree requirements, policies and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits for Arts and Sciences students.

Questions concerning University and College academic policies affecting Arts and Sciences majors should be directed to the OASIS staff in CNH 202 or by calling 407-823-2492. Questions concerning the requirements in a major should be directed to the Department offering the degree. The student should contact the department early in his/her academic career.

Program Planning
Although suggested curricula are available in most areas, students will plan their program in consultation with a faculty advisor appointed by either the major department or the College.

Area Studies Programs
Area Studies programs are multi-disciplinary programs that focus on specific regions or cultural groups. UCF has four area studies programs with an international focus: Asian, Judaic, Latin American, and Middle Eastern. Although the academic home of these programs is the College of Arts and Sciences, faculty and students from across the entire university may participate in them. These programs may be elected as minors by students majoring in any discipline within the university. For more information about the programs and contact numbers of the program directors see the list below. Contact the Office of International Studies for assistance or referral for all international inquiries regarding academic programs.

Asian Studies - Contact: Hong Zhang, CNH 531, 407-823-3184
Judaic Studies - Contact: Moshe Pellit, 407-823-5039
Latin American Studies - Contact: Arlen Chase, 407-823-2124
Middle Eastern Studies - Contact: Elliot Vittes; 407-823-2745

International Study Centers
Undergraduate Inter-institutional Transient Program
The State University System operates study centers in London, England and Florence, Italy during the Fall and Spring semesters. Students with 27 or more semester hours of credit and a minimum GPA of 2.5 or above in all state universities are eligible to apply for one or both semesters as inter-institutional transient students. Faculty at the centers are drawn from the nine state universities.

While credits are earned through Florida State University, which administers the program on behalf of the State University System, credits are fully transferable within the System. Students at the Centers are considered to be resident in their home institutions for attendance and degree purposes.

Classes at the Florence Center emphasize art history, Italian, social sciences, and the humanities; at the London Center, theatre, business, English, history and the social sciences are emphasized. Field trips and museum visits are common to both. For further information, consult the Office of International Studies at 407-882-2300.

Programs, Tracks, and Degrees

<table>
<thead>
<tr>
<th>Title</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Actuarial Science</td>
<td>BS</td>
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<tr>
<td>Advertising/Public Relations</td>
<td>BA</td>
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<td>African-American Studies</td>
<td>Minor</td>
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<td>American Studies</td>
<td>Minor</td>
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<tr>
<td>Animation</td>
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<td>Anthropology</td>
<td>BA, Minor</td>
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<td>Art</td>
<td>BA, BFA, Minor</td>
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<td>Asian Studies</td>
<td>Minor</td>
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<tr>
<td>Astronomy</td>
<td>Minor</td>
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<tr>
<td>Biology</td>
<td>Minor</td>
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<tr>
<td>Biomolecular Sciences</td>
<td>BA, MS, PhD, Minor</td>
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<tr>
<td>Chemistry</td>
<td>PhD</td>
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<tr>
<td>Cinema Studies (Film)</td>
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<td>Communication</td>
<td>MA</td>
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<td>Community Arts - PAVE</td>
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<td>Digital Media</td>
<td>BA, Minor</td>
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<td>English</td>
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<td>English as a Second Language</td>
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<td>Film</td>
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<td>Foreign Language Combination</td>
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<td>Forensic Science</td>
<td>MS</td>
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<td>French</td>
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<td>German</td>
<td>Minor</td>
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<td>History</td>
<td>BA, MA, Accelerated MA, Minor</td>
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<td>Humanities</td>
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<td>Interpersonal Communication</td>
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<td>Italian</td>
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<td>Jazz Studies</td>
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<td>Journalism</td>
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<td>Judaic Studies</td>
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<td>Latin-American Area Studies</td>
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<td>Liberal Arts</td>
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<td>Liberal Studies</td>
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<td>Mass Communication</td>
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<td>North American Indian Studies</td>
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<td>Organizational Communication</td>
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<td>Philosophy</td>
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<td>Physics</td>
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<tr>
<td>Political Science</td>
<td>BA, MA, Minor</td>
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<tr>
<td>Psychology</td>
<td>BS, BS, PhD, Minor</td>
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<tr>
<td>Radio-Television</td>
<td>BA, Minor</td>
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<td>Real Estate</td>
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<td>Religious Studies</td>
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<td>Social Sciences</td>
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<td>Sociology</td>
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<td>Spanish</td>
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<td>Statistics</td>
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<td>Theatre</td>
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<tr>
<td>Translation and Interpretation</td>
<td>Certificate</td>
</tr>
<tr>
<td>Women’s Studies</td>
<td>BA, Minor, Certificate</td>
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</table>

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

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

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

The Department of Chemistry offers courses and programs leading to a Bachelor of Science in Chemistry, a Bachelor of Science in Forensic Science, a minor in Chemistry, and a Master of Science in Industrial Chemistry. The undergraduate degree program in chemistry is accredited by the American Chemical Society Committee on Professional Training. It prepares the graduate for career opportunities in the chemical or related industries, or in government laboratories. The program also prepares students for further study at the graduate level in chemistry or in a related area such as pharmacology or toxicology. With an appropriate choice of electives it also constitutes excellent preparation for the professional schools of dentistry, medicine, and veterinary medicine.

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

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

The Nicholson School of Communication provides students with a balance of practical skills and philosophical aspects of mass and interpersonal communication. The programs prepare students to understand mass media as social institutions and train them for professional careers. The School is composed of four Divisions which offer five separate Bachelor of Arts degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
2. Interpersonal Communication. Provides knowledge, theory, and skills needed to understand and predict human communicative behavior.
3. Journalism. Provides theory and skills needed to gain employment in newspapers, magazines, and similar forms of mass communication.
4. Organizational Communication. Provides knowledge, skills, and theory to understand and predict human communicative behavior in organizational settings.

A Master of Arts degree in Communication is offered.

Facilities

The Radio-Television Division has fully-equipped audio and video production facilities, a complete multi-camera television studio, an
College of Arts and Sciences

Minors
Tracks

Students, leading to graduation with honors. Program description follows.

The English program provides an enriched course of study for exceptional
creative writing, technical writing, or literature. The Department serves
the broad needs of the University with course offerings in writing and lit-

erature for students from other departments. The department has a
Technical Documentation Writing Lab and also publishes The Florida
English program provides an enriched course of study for exceptional
students, leading to graduation with honors. Program description fol-

ows concentration degree plans.

School of Film and Digital Media

Director: Terry Frederick

Digital Media: Program

http://www.creat.ucf.edu
E-mail: creat@ucf.edu

Chair: W. W. McGee; CH 221; 407-823-2788
Faculty: Ballantyne, Fookes, McGee

Forensic Science: Program

http://www.cas.ucf.edu/chemistry/forensic.html
E-mail: chemistry@ucf.edu

History: Department

http://pegasus.cc.ucf.edu/~history
E-mail: history@ucf.edu

Chair: Edmund Kalina; CHN 505-Z; 407-823-5450
Faculty: C. Adams, S. Adams, Alvarez, Beiler, Cassanello, Clark,
Crepeau, Downing, Farless, Fernandez, Friend, Gordon, Greenhaw,
Herlihy, Kalina, Leckie, Mendoza, Pauley, Perry, Solanari, Stockdale,
Walker, Wsallters, White, Zhang

School of Film and Digital Media

Director: Terry Frederick

Digital Media: Program

http://www.creat.ucf.edu
E-mail: creat@ucf.edu

Chair: W. W. McGee; CH 221; 407-823-2788
Faculty: Ballantyne, Fookes, McGee

Forensic Science: Program

http://www.cas.ucf.edu/chemistry/forensic.html
E-mail: chemistry@ucf.edu

History: Department

http://pegasus.cc.ucf.edu/~history
E-mail: history@ucf.edu

Chair: Edmund Kalina; CHN 505-Z; 407-823-5450
Faculty: C. Adams, S. Adams, Alvarez, Beiler, Cassanello, Clark,
Crepeau, Downing, Farless, Fernandez, Friend, Gordon, Greenhaw,
Herlihy, Kalina, Leckie, Mendoza, Pauley, Perry, Solanari, Stockdale,
Walker, Wsallters, 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 his-
story will enable the student to become effective in oral and written
communication, while developing intellectual skills in critical thought
and analysis, both of which are invaluable to the study of law.

The Department participates in the programs in Women’s Studies,
American Studies, African-American Studies, Asian Studies,
Canadian and Commonwealth Studies, Latin-American and Iberian
Area Studies, and Russian Area Studies.

Degrees: History (BA, MA, Accelerated MA)

Tracks: None

Minors: History

Minors
Tracks

students, leading to graduation with honors. Program description fol-

ows.

The English program provides an enriched course of study for exceptional

studying, technical writing, or literature. The Department serves

the broad needs of the University with course offerings in writing and lit-

erature for students from other departments. The department has a

Technical Documentation Writing Lab and also publishes The Florida


English program provides an enriched course of study for exceptional

students, leading to graduation with honors. Program description fol-

ows concentration degree plans.

Summary:

The English program provides a strong foundation in writing, literature, and critical thinking. Students can choose to specialize in creative writing, technical writing, or literature. The department offers a Technical Documentation Writing Lab and a variety of other resources to support student learning. The English program is well-suited for students interested in becoming lawyers or pursuing graduate studies in fields related to literature and communication.
The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The program offers instruction, conducts research, and disseminates knowledge in the civilization of the Jewish people from Biblical times to the present day in the major dimensions of its creativity: literature, language, religion, philosophy, law, and social, political and economic organization. Because the roots of western culture and civilization and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Judaic Studies form an essential component of the university’s curricula.

The program enables students to acquire a foundation of knowledge of Jewish history, the Hebrew language, Jewish philosophy, culture, religious beliefs, and political aspirations; and to understand the contribution of Judaism to western civilization. The courses highlight major aspects of Jewish civilization, focusing on its interaction with other cultures and on the bodies of human knowledge upon which it draws. The program is designed to serve students pursuing careers in general or Jewish education, in international and Middle-Eastern affairs, in languages or liberal arts, in the ministry or rabbinate, and in the community at large.

Debrees: None
Tracks: None
Minors: Judaic Studies

Latin American Area Studies: Program

E-mail: achase@mail.ucf.edu
Director: Arlen Chase; PH 403M; 407-823-2124

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

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

Liberal Studies: Program

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

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

Debrees: Liberal Studies (BA, BS, MA, MS)
Tracks: Liberal Studies, Liberal Arts, Environmental Studies, Women’s Studies, Computer Information Technology
Minors: American Studies, Environmental Studies, Social Sciences Interdisciplinary

Mathematics: Department

http://math.ucf.edu
E-mail: math@mail.ucf.edu
Chair: Zuhair Nashed; MAP 209; 407-823-0445

Faculty: Andrews, Anthony, Armstrong, Brigham, Cannon, Caron, Choudhury, Clarke, Danielyan, Dunlop-Pyle, Dutton, Griffiths, Han, Heinzer, Higgins, Hoffman, Jones, Kassass, Katsevich, Langfield, Li, Martin, Mikusinski, Mohapatra, Pensky, Phillips, Pyle, Rautenstrauch, Ren, Richardson, Rodriguez, Rollins, Salzmann, Schober, Shvamoggi, Taylor, Tovbis, Vajravelu, Young, Zhao

The Department of Mathematics offers courses and programs which lead to a Bachelor of Science in Mathematics, a minor in Mathematics, a Master of Science in Mathematical Science and a Ph.D. in Mathematics. (See the Graduate Studies catalog for a description of the M.S. in Mathematical Science and the Ph.D. in Mathematics.) The programs in mathematics are designed to serve;

1. students who desire to pursue careers in mathematics after having completed a baccalaureate degree;
2. students who desire to continue their education in graduate and professional schools; and
3. students who need to use advanced mathematics as a tool in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Mathematics have developed along several lines. There are the usual service courses in pre-calculus and calculus along with strong programs in the upper division in the traditional areas of algebra and analysis and applied mathematics.

The department does not award credit by examination for courses which are regularly taught. Students who feel they know the material in a given course are encouraged to take a more advanced class to fulfill their mathematics requirement. A limited number of student assistantships are available for qualified graduate students.

Degrees: Mathematics (BS, MS, PhD)
Tracks: Applied Mathematics, Computational Mathematics, Engineering/Physics, Mathematics, Pure Mathematics
Minors: Mathematics

Music: Department

http://www.cas.ucf.edu/music/
E-mail: music@ucf.edu
Interim Chair: K. Koons; CNH 205; 407-823-2866, Fax 407-823-3378
Part-Time Faculty: Berger, Chen, Fox, Garrity, Gerher, Hawkins, Hill, Krueger, Leung, Liao, Pitford, Robertson, Swedberg, Titus, Schultz, Ward, Wei

The Department of Music offers a Bachelor of Music degree with options in performance, composition, and piano pedagogy; a Bachelor of Arts Degree in music; and a Bachelor of Music Education Degree with specializations in instrumental, choral and elementary school music. The Music Education programs are approved by the Florida State Department of Education. Students who desire to be certified to teach in elementary and secondary schools should major in Music Education. Courses leading to teacher certification are offered cooperatively with the College of Education. Master of Arts and a Master of Education degrees in Music Education are offered by the College of Education. The Music Department is fully accredited by the National Association of Schools of Music. Music organizations on campus include Pi Kappa Lambda, Phi Mu Alpha, Sigma Alpha Iota, Tau Beta Sigma, Kappa Kappa Psi, University Vocal Society, Gospel Choir, MIDI User Group, Student Chapters of MENC and ACDA, and Student Advisory Council.

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

Modern Languages and Literatures: Department

http://pegasus.cc.ucf.edu/~forlang
E-mail: foreignlanguages@ucf.edu
Chair: TBA; CNH 523; 407-823-2472

Faculty: Barberet, Barsch, Cervone, Decker, Del-Rio, DiPierro, Fabery, Fernández, Ferro, Folse, Giannandrea, Korosy, Letiche, López, Martínez, Nalbone, Prucha, Redmon, Rivera, Stebbins, Taylor, Villaneuva, Micarelli (Professor Emeritus)

Language studies in the College of Arts and Sciences provide instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a combination of two languages. The language combinations may consist of French, German, or Spanish as a first language, and any of these three, plus Italian, as a second language.

These programs are designed to meet the needs of students who desire competency in a language and expanded understanding of a
foreign culture and literature. Students enrolled in the 1000-level lan-
guage sequence are required to utilize the Foreign Language Media
Center for at least one hour per week. Students desiring to major in
a foreign language must meet all the requirements for graduation as
set forth by the University, the College of Arts and Sciences, and by
the Department of Foreign Languages and Literatures.

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

Tracks:
- None

Minors:
- French, German, Italian, Spanish

Philosophy: Department

http://www.cas.ucf.edu/philosophy
E-mail: phirolgy@ucf.edu
Chair: Shaun Gallagher; CNH 411; 407-823-2273
Facility: Cash, Compton, Congden, Coverston, DiBernardo, Evans,
Hawkins, Jaeger, Janz, Jones, Kassim, Mundale, Park, Schippert,
Stanlick, Strawser, Va, etc.

The Department of Philosophy offers a Philosophy major and a
Humanities major, with tracks in multicultural Humanities and in
Religious Studies, as well as minors in Philosophy, Humanities,
Religious Studies, and Cognitive Sciences. The Department requires
Philosophy and Humanities majors to receive advisement prior to regis-
tering each semester. Majors should schedule appointments with their
departmental advisor when picking up their registration form and sched-
ule booklet. For any course used to satisfy a requirement (including
electives) of either the Philosophy major or the Humanities major, a
grade of "C" or better must have been received.

Degrees:
- Philosophy (BA), Humanities (BA), Humanities-
Religious Studies (BA)

Tracks:
- Regular and Honors

Minors:
- Philosophy, Humanities, Religious Studies,
Cognitive Sciences

Physics: Department

http://www.physics.ucf.edu
E-mail: physics@ucf.edu
Interim Chair: Ralph Llewellyn; MAP 310; 407-823-2325
Associate Chair: Lee Chow; MAP 315; 407-823-2333
Facility: Bhattacharya, Bolemon, Boso, Braunstein, Britt, Busch,
Campins, Chernyak, Chow, Ethmiou, Heinreich, Johnson,
Kokouline, Llewellyn, Luo, Mucciolo, Neighbor, Peale, Roldan-
Cuenya, Saha, Saul, Schelling, Schulte, Tonner, Winningham,
Woodney
Faculty Emeritus: Brennan
Visiting Faculty: Dubey, Filtisyan, Stepanov

The Department of Physics offers a multi-track program of study lead-
ing to the B.S. degree, giving students the flexibility to choose a suit-
able 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, con-
densed matter physics, complex systems, biophysics, atomic and
molecular physics, nanoelectronics, and space science. The Department
of Physics also offers a Master of Science degree and a Doctor of
Philosophy degree.

Degrees:
- Physics (BS, MS, PhD)

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

Minors:
- Astronomy, Physics

Political Science: Department

http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
Chair: Ralph Llewellyn; CNH 415; 407-823-2608
Faculty: Benson, Bradford, Dolan, Fine, Grigorescu, Hamann,
Handberg, Houghton, Jacques, Jewett, Jungblut, Kiel, Kinsey,
Knuckey, Lanier, Lilie, Morales, Pollock, Reichert, Sadri,
Schaufnagel, Vitess, Wilson

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 fol-
lowing programs:

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

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

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

Minors:
- Political Science, Political Science/Prelaw

Psychology: Department

http://pegasus.cc.ucf.edu/~psych
E-mail: psychology@ucf.edu
Chair: TBA; PH 302B; 407-823-2216
Associate Chair: W. Wooten, PH 305E; 407-823-2216
Faculty: Berman, Blau, Borjesson, Bowers, Brophy, Burroughs, Chin,
M. Dunn, S. Dunn, Ehrenreich, Fiore, Fisher, Flitzsche, Gilson,
Hagans, Hancock, Hernandez, Hitt, Jensen, F. Jentsch, K. Jentsch,
M. Kennerley, R. Kennerley, Lavoooy, McGuire, Morgan, Mottarella,
Mouloua, Negy, Newlin, Pritchard, Rapport, Ren, Reynoso,
Rinalducci, Rollins, Salas, Shirley, Sims, Smither, Stone-Romero,
Thomas-Jenkins, Tucker, Walker, Wang, Weaver, Whitten, Wooten

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

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

Tracks:
- None

Minors:
- Psychology, Behavioral Forensics Certificate

Social Sciences: Program

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

The Social Sciences program offers students an opportunity to
become acquainted with the various fields of the Social Sciences
and to better understand the relationships between those fields.
Satisfactory completion of the program leads to the Bachelor of
Science degree with a major in Social Sciences.

Degrees:
- Social Sciences (BS)

Tracks:
- None

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

The Department of Statistics and Actuarial Science offers courses and programs leading to a Bachelor of Science in Statistics, a Bachelor of Science in Actuarial Science, a minor in Statistics, and a Master of Science in Statistical Computing. (See the Graduate Studies catalog for a description of the M.S. in Statistical Computing.)

The undergraduate programs in statistics and actuarial science are designed to serve 1) students who desire to pursue careers in statistics or actuarial science after having completed a baccalaureate degree; 2) students who desire to continue their education in graduate or professional schools; and 3) students who use statistics or actuarial science as tools in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are available for qualified graduate and undergraduate students.

Degrees: Statistics (BS, MS), Actuarial Science (BS, MS)
Minors: Statistics

Women’s Studies: Program
http://www.cas.ucf.edu/womensstudies
E-mail: womensst@ucf.edu
Director: L. M. Logan; CNH 201H; 407-823-6502

The Women’s Studies program offers an interdisciplinary minor and a certificate in Women’s Studies, in cooperation with several departments. The program examines women’s situation and contributions in past and present societies, women’s issues, and theories concerning women and gender.

Degrees: BA (Liberal Studies)
Tracks: Women’s Studies Track in Liberal Studies
Minors: Women’s Studies, Certificate
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.

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

Qualified students who transfer to UCF with an AA Degree with Honors from a Florida community college that has signed an Honors Articulation Agreement with TBHC will be admitted into University Honors with junior standing. Further information is available from the

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**The Burnett Honors College**
*Interim Dean: Alvin Wand; The Burnett Honors College; 407-823-2076, Fax 407-823-6583*

*Director of Undergraduate Research and Civic Engagement: Kelly Astro*

*Director of Student Services: Madi Dogariu*

*Director of Computer Operations: Andrew Holloway*

*Director of Student Affairs: Jill Norburn*

*Director of Administrative Services: Donna Plaisted*

*Director of Student Development: Lisa Sklar*

*Director of Advising: Peter Wallace*

http://www.honors.ucf.edu
The current requirements are as follows:

- **University Honors Upper-Division Program Requirements: College of Arts and Sciences, College of Education, Rosen College of Hospitality Management, Engineering Technology and Information Technology majors**
  1. Complete one Honors Interdisciplinary Seminar4 (3 hrs)
  2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars4 (6 hrs)

- **University Honors Upper-Division Program Requirements: College of Business Administration**
  1. Complete one Honors Interdisciplinary Seminar4 (3 hrs)
  2. Complete two Honors upper-division Business courses (6 hrs)
  ECO 3401H Honors Quantitative Business Tools I 3 hrs
  ECO 3411H Honors Quantitative Business Tools II 3 hrs
  BUL 3301H Honors Legal and Ethical Environment of Business 3 hrs
  GEB 3356H Honors Introduction to International Business 3 hrs
  MAR 3023H Honors Marketing 3 hrs
  FIN 3403H Honors Business Finance 3 hrs
  MAN 3025H Honors Management of Organizations 3 hrs

Note: Please refer to the "UCF Courses and Descriptions" section of this Undergraduate Catalog for information on direct prerequisites for the above courses.

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

- **University Honors Upper-Division Program Requirements: College of Engineering and Computer Science Excluding Computer Science, Information Technology and Engineering Technology**
  1. Complete one Honors Interdisciplinary Seminar outside the student's department of major (although it may be within the College of Engineering and Computer Science) (3 hrs)
  2. Complete two Honors upper-division Engineering courses (6 hrs)
  STA 3032H Probability and Statistics for Engineers 3 hrs
  EGN 3310H Engineering Analysis-Statistics 3 hrs
  EGN 3312H Engineering Analysis-Dynamics 3 hrs
  EGN 3373H Principles of Electrical Engineering 3 hrs
  3. Complete the Honors Engineering Research Seminar (3 hrs)
  EGN 4931H Honors Seminar-Research

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

- **University Honors Upper-Division Program Requirements: Computer Science majors**
  1. Complete one Honors Interdisciplinary Seminar4 (3 hrs)
  2. Complete two Honors upper-division Computer Science courses (6 hrs)
  COP 3502H Computer Science I 3 hrs
  COP 3503H Computer Science II 3 hrs

- **University Honors Upper-Division Program Requirements: College of Health and Public Affairs (COHPA)**
  1. Complete one Honors Interdisciplinary Seminar4 (3 hrs)
  2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars4 (6 hrs)

- **University Honors Upper-Division Program Requirements:**
  1. Complete one Honors Interdisciplinary Seminar4 (3 hrs)
  2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars4 (6 hrs)

- **University Honors Upper-Division Program Requirements for Molecular Biology and Microbiology majors**
  1. Complete one Honors Interdisciplinary Seminar4 (3 hrs)
  2. Complete with a grade of "B" or better
  BSC 3404H Honors Quantitative Biological Methods 4 hrs
  3. Complete with a grade of "B" or better
  PCB 4524H Honors Molecular Biology II 3 hrs
  4. An Honors Seminar normally is an upper-division offering intended for all majors. Most seminars are strongly interdisciplinary, may be team-taught, and present cutting-edge topics by faculty who must present course proposals for consideration by the University Honors Committee. Enrollments are limited to 20 students. At least one of these seminars will form part of the revised University Honors upper-division curriculum currently under adoption by each college or major.

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

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 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 deaccelerate 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
- Liberal Studies
- 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 coursework 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.
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

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 semester hours of college credit including at least 12 graded upper-division hours at the University of Central Florida; at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses regardless of institution.
- Students must also seek approvals by the department from which Honors in the Major is sought and from the Director of Undergraduate Research of TBHC.

Honors in the Major is awarded upon completion of an advanced Honors Thesis, and the completion of at least three but not more than six hours of Directed Readings course work as determined by the academic department; and at least three but not more than six hours of Honors Thesis or Project work taken in the college or department of major. Engineering majors must take EGN 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 COHPA Honors Interdisciplinary Course or BSC 3404H (for Molecular & Microbiology students only). Students who enroll in the Interdisciplinary Course or in BSC 3404H will write a Thesis Proposal as part of their coursework. Departments or colleges may set additional requirements for Honors in the Major to be completed. The Honors Thesis is to be completed under the direction of a committee of three faculty members, one of whom is the project or thesis Chair. It is the student's responsibility to obtain an Honors in the Major Committee Chair who will undertake the responsibility of directing the Honors Directed Readings and Thesis and, in consultation with the student, form the Honors in the Major faculty committee. The Thesis Committee Chair and at least two committee members must 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 Undergraduate Research 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 Undergraduate Research by the last day of classes of the semester preceding their anticipated graduation date. A student who completes all of the requirements for Honors in the Major, including maintaining at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses, will have the designation of "Honors in (subject area)* noted on the diploma and the University transcript. If you have any questions about these requirements, please contact TBHC at 407-823-6402 or him@mail.ucf.edu

Student-Mentor Academic Research Teams

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 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 Undergraduate Research in BHC 102 or by phone at 407-823-6402.

Office of Student Scholarship and Fellowship Advisement

The Office of Student Scholarship and Fellowship Advisement (OSSFA) serves all UCF students who are eligible to apply for prestigious scholarships such as the Rhodes, Truman, Gates, and Marshall. Because TBHC is UCF’s campus representative for all prestigious scholarships, applicants for scholarships that require institutional nomination must contact OSSFA prior to the application process. Students seeking detailed information about prestigious scholarships and the application process should visit http://www.honors.ucf.edu/scholar_main.html. All students who are applying for a prestigious scholarship or fellowship are encouraged to contact the OSSFA office for assistance with their applications, even if the scholarship does not require institutional endorsement. Students seeking more information should contact OSSFA in BHC 103 or by phone at 407-823-0325 prior to the application process.
College of 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 210-W; 407-823-2187
The College Mission Statement can be condensed into one sentence: The College of Business Administration advances the University’s mission and goals in providing intellectual leadership through teaching, research, and service. The vision is to create within the College an environment that nurtures learning and exploration, provides opportunities for faculty to disseminate information, provides educational opportunities for students, businesses and the general public, and provides a platform for many and various forms of partnerships.

Nurturing Learning and Exploration: The College is a catalyst for students, faculty, and the general public to gain a better understanding of the various fields of business. Educational experiences inspire learning and encourage exploration.

Dissemination of Information: Students are encouraged through the learning process to gather information to be used by them in future business vocations. Both students and faculty are encouraged to pursue outlets to share “new” information within their fields and to business practitioners.

Provide Educational Opportunities: Degree seeking individuals are provided with curricula leading to baccalaureate, masters, and doctoral programs. The College is also committed to providing more opportunities with structured learning experiences that “certify” non-degree seeking individuals as having accomplished a minimum requirement for a selected career.

Provide a Platform for Partnerships: The College is engaged in specific areas of excellence that provide opportunities for learning, exploration, and sharing. These specific areas of excellence take the form of Centers and Institutes, and selected niche areas of College units.

All undergraduate and graduate programs are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Admission to the University of Central Florida does not imply admission to the College of Business Administration. Students will only be allowed to enroll in the 3000/4000 level courses taught by the College of Business Administration after they have been admitted to the College. Admission to the College will be granted when the following are complete:

- Completion of the University General Education program, or an AA degree from a Florida Public Community College with a 2.0 GPA.
- Common Program Prerequisites with a 2.0 GPA.
- 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.
Community/Junior College Transfers Notes

1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida’s community and junior colleges should complete the following courses as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 2011), ACG 2071, ECO 2013, ECO 2231, ECO 2233, STA 2231, or QMB 2100. At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401 Business Quantitative Tools I. Students who have completed either MAC 2233 or STA 2023, but not both, must take ECO 3401. Completion of these courses will satisfy all prerequisite course requirements for all business and accounting degree programs and will ensure that a student will receive further consideration for admission.

2. Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF’s Business program. Only grades of “C” (2.0) or higher transfer into the program.

3. Florida Public Community College students are advised to complete the Associate of Arts Degree including:
   a. The general education requirements
   b. The one year Accounting and Economics sequence
   c. College Algebra
   d. CGS 2100

4. Professional courses should not be taken at a community/junior college in the areas of Accounting, Economics, Management Information Systems, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year course areas in the College of Business.

Admission and cannot be satisfied with community/junior college courses.

5. A minimum of 12 semester hours must be completed at UCF within each individual major and 30 hours within the UCF College of Business.

Advisement

Undergraduate Student Services

Director: Helen Y. Hill; BA 210; 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 BAIL 101 by calling 407-823-2184. Visit USS’s home page at: http://www.bus.ucf.edu/uss/

Programs and Degrees

Title
Accounting BSBA, MSA, MST
Business Administration MBA, Ph.D.
Economics BSBA, MAEE, BA
Finance BSBA
General Business BSBA, MBA
Management Information Systems BSBA, MS
Management BSBA, MS HR
Marketing BSBA

Departments and Programs

Kenneth G. Dixon School of Accounting

Director: A. Judd; BA 437; 407-823-2871
Assistant to Director: M. Hampton; BA 438; 407-823-5678
Faculty: Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kellihier, Knitworth, Lacy, Mahoney, Roberts, Roush, Savage, Smith, Vaughn, 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 offers rigorous programs emphasizing communication skills, critical thinking, ethical practices, interpersonal skills, and technical competence preparing graduates for entrance into the accounting profession.

The School encourages intellectual contributions by faculty through instructional development, applied scholarship, and basic scholarship. The School provides service by participating in university governance, professional organizations, and professional educational programs. (Adopted by the faculty on March 4, 1993, and revised by the faculty on January 10, 1997.)

To prepare for any business career, a strong foundation in accounting and taxation will provide the variety of skills necessary to succeed in today’s complex financial world. An accounting degree prepares students for entry into the fields of industrial, managerial or governmental accounting, with a strong potential for career advancement.

The objective of the baccalaureate program with a concentration in accounting is to provide basic conceptual accounting and business knowledge as a foundation for accounting career development. The undergraduate degree also is the first step toward becoming a Certified Public Accountant, Certified Management Accountant and Certified Internal Auditor. The Kenneth G. Dixon SchooSchool of Accounting also offers master’s degrees in accounting and taxation.
These programs complete the education required to become a CPA. A rigorous and comprehensive accounting curriculum at UCF focuses on the real-world challenges of accounting, emphasizing problem solving, information analysis and computer applications.

Distinctive Benefits
- Strong industry ties allowing for unique opportunities for placement and advancement.
- A competitive internship program that places graduate students in positions with major employers in the community.
- The opportunity to enroll in outstanding graduate programs in accounting and taxation.
- A very strong faculty known for their teaching excellence.
- Over a dozen scholarships available to advanced students.
- Active student organizations including the Student Accounting Society and Beta Alpha Psi.
- A faculty committed to the continuous improvement of the accounting and taxation programs.
- Outstanding pass rates on the CPA exam.

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

Department of Economics
Chair: D. Hosni, BA2 305-D; 407-823-3266, economics@bus.ucf.edu
Faculty: Anton, Buhagiar, Caputo, Dickie, Elston, Euzenl, Finnoff, Gerking, Gibbs, Hamilton, Harrison, Hofler, Hosni, Im, Martin, McHone, Mikhail, Milton, Moore, Pennington, Potter, Rungeling, Rutstrom, Scrogin, Soskin, Tramell, Underwood, White
Faculty Advisor: R. Pennington; BA2 303-B; 407-823-2640

Economic issues dominate today's news and public debates more than ever before. Inflation, unemployment, health care, economic growth, pollution, poverty, and international economic relations are a few of these issues. The primary strength of economics is that it provides a logical, ordered way of looking at most problems and issues. Undergraduate education in economics equips individuals to both better understand and seek solutions to these issues.

The Department of Economics participates in two undergraduate degree programs: a BSBA degree and a BA degree. The purpose of the BSBA Economics Program is to provide students with a professional business background that prepares them for careers in private business and government. The purpose of the economics BA Program is to provide a broad-based liberal arts background that can serve as a strong foundation for further graduate studies in law, social sciences, and other fields or as training for careers in politics, teaching, research, social service, and other areas. Both programs enable students to better understand the economic and non-economic issues that are confronted in their jobs and their private lives and to provide the analytical skills that will allow them to resolve these.

Distinctive Benefits
- Flexible Curriculum: Students tailor the program to their individual interests through a large selection of economics electives.
- International Perspective: Exposure to the global economy through the International economics electives (10), including Area Studies (Europe, Japan, China, Pacific Rim, and Mexico).
- Interdisciplinary Linkages: Economics links with many other disciplines allowing for double majoring in Finance, General Business, and Political Science.
- Teaching quality: Many of the Economics faculty have received Excellence in Teaching Awards.
- Offer the opportunity for strong quantitative and analytical training.
- Student Organizations: The Economics Club is an active student organization linking students to Alumni.
- Excellent preparation for law school admission.

Degrees: Economics (BSBA, BA, MAAE)
Minors: Economics

Department of Finance
Chair: A. Byrd; BA 409; 407-823-3575
Faculty: Ajayi, Atkinson, Block, Borde, Byrd, Chen, Cheney, Choi, Dalrymple, Frye, Gilkeson, Gregg, McQuillen, Modani, Park, Ragozzino, Ramanlat, 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)
Minors: International Business, Real Estate, Finance

General Business
Faculty Advisor: B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

Degrees: General Business (BSBA, MBA, Ph.D)
Minors: For non-Business majors

Department of Management
Chair: F. Jones; BA 335; 407-823-2679
Faculty: Ambrose, Arnaud, Barringer, Becker, Bogumil, Butcher, Callahad, Callarman, Connell, Fernald, C. Ford, R. Ford, Holland, Huseman, Keon, Migenes, McDonald, D. Neubaum, Putchinski, Quinn, Schminke, Stone, Sussan, Uhlf-Bien, Viggiano

Tomorrow's managers must be prepared to meet the challenges of a highly dynamic and rapidly changing business environment. The objective of the Management program is to prepare students for the excitement and opportunities that this presents. To learn about management, students study the processes and techniques of leadership, planning, controlling and staffing of both small and large organizations.

The curriculum is designed so that students can choose to concentrate in specialized areas of Entrepreneurship and Human Resource Management, or students can choose to major in General Management which allows them to take a broader variety of course work and prepares them for general management responsibilities.

The General Management major prepares students for a career that involves decision making responsibilities regardless of organization or assignment. The department goal is to emphasize the expertise, knowledge, and skills necessary to be not only a team player, but ideally a team leader. Whether the student is studying leadership, motivation, staffing, or international management, the curriculum will sharpen students' skills in problem identification, analysis, and solution. The major can lead to a variety of rewarding careers in management positions throughout the organization. The department offers more specialized training - using the same approach - via our Human Resource Management major. Career paths include positions in training and development, personnel and employee relations, equal opportunity and labor relations, human resource consulting, and more. For students interested in starting their own business or working for smaller fast growing organizations, the department offers specialized training via the Entrepreneurship Track.

Distinctive Benefits
- Excellent faculty, known for their creativity and enthusiasm in the classroom, and their commitment to students in and out of the classroom.
- A broad-based training that will open up opportunities in high-growth career areas.
- 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

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, Porthk, Odisho, Saunders, Szymanski, Thienel, Tidwell, Van Slyke, West

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

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

The MIS major prepares students for such entry-level positions as 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.

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, career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government agencies.

Distinctive Benefits

- Challenging field of study that rewards inquisitive students who are willing to work toward a goal.
- Student internship opportunities throughout the Central Florida region.
- An active student organization (MISA).
- Excellent job opportunities and starting salary prospects.
- Ability for graduates to apply and integrate all of the functional areas of business early in their professional careers.

Degrees: Management Information Systems (BSBA) Master of Science, Management Information Systems (MS/MIS)

Minors: Management Information Systems

Department of Marketing

Chair: R. Michaels; BA 307; 407-823-2108;
http://www.bus.ucf.edu/marketing/index.htm
Faculty: Allen, 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 startup. Nearly one-third of the civilian work force in the United States is employed in jobs related to marketing.

Marketing offers a variety of interesting and challenging career opportunities, such as professional selling, retailing, advertising, marketing research, sports marketing, distribution and logistics, purchasing, and e-business. In addition, students with marketing degrees may find excellent job prospects in international markets. Marketing career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government and social service agencies.

Distinctive Benefits

- IM2010 program for Marketing majors recognized as one of the most innovative in the country.
- Seven certificate programs are available for Marketing majors.
- An 18-hour Marketing minor is available for students with other majors.
- Twenty-two dynamic faculty members are among the strongest teachers in the college.
- Comprehensive course offering each semester and summer - you can finish!
- Full-time faculty teach approximately 90% of undergraduate classes offered by the Department.
- Strong emphasis on preparing students for marketing management careers.
- Approximately 15 scholarships awarded annually on a competitive basis.
- Opportunities to participate in honors in the major, internships, independent projects, and directed studies.
- Opportunities to participate in national award-winning student chapters of the American Marketing Association and The Society for Marketing Professional Services (SMPS).

Degrees: Marketing (BSBA)
Tracks: Generalist, Sales
Minor: Marketing

For more information, visit http://www.bus.ucf.edu/marketing/index.htm, or call 407-823-2108. Department office is located in BA 353.

Degrees: Marketing (BSBA)
Tracks: Generalist, Sales
Minor: Marketing

For more information, visit http://www.bus.ucf.edu/marketing/index.htm, or call 407-823-2108. Department office is located in BA 353.

Degrees: Marketing (BSBA)
Tracks: Generalist, Sales
Minor: Marketing

For more information, visit http://www.bus.ucf.edu/marketing/index.htm, or call 407-823-2108. Department office is located in BA 353.
College of Education
Dean: Sandra L. Robinson; 407-823-5529
Associate Dean: Jennifer C. Platt; 407-823-2046
Assistant Dean: TBA
Assistant Dean: Suzanne M. Martin; 407-823-3906
Deans’ Office: ED 308
http://edcollege.ucf.edu/

The role of the College of Education at the undergraduate level is to prepare students for careers as early childhood, elementary, secondary, exceptional, physical, technical education teachers, and sports and fitness professionals. The College of Education offers Bachelor of Science degrees with the following majors:

- Art Education
- Early Childhood Education
- Elementary Education
- English Language Arts Education
- Exceptional Student Education
- Foreign Language Education
- Mathematics Education
- Physical Education
- Science Education
- Social Science Education
- Sports and Fitness
- Technical Education and Industry Training

Admission to the College of Education
Admission to the College will be granted when students meet the following requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete common program prerequisite courses

Transfer Notes:
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information. Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements. Students are responsible for all ESOL assignments for all UCF ESOL-infused courses that may be transferred from other institutions.

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

Continuing students will:
1. Set up an appointment with their faculty advisor if accepted in a major or the Office of Student Services, if a “Pending” major, to review academic progress and to develop an academic plan. Review this plan each term with an advisor prior to registration;
2. View a SASS Degree Audit through Polaris;
3. Register at scheduled appointment time in Polaris. Students with extenuating circumstances may register in person in the College of Education Office of Student Services. Students must com-
Office of Student Affairs
Located in the Education Complex in Suite 110, the Office of Student Affairs is dedicated to facilitating the success of students seeking admission, assistance, and support in the College of Education. The Office of Student Affairs is organized into the Offices of Clinical Experiences, Minority Programs In Education, and Student Services.

Office of Clinical Experiences
Director: Carolyn Walker Hopp; ED 110, 407-823-2436
Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of every degree program and consist of early field experiences as well as Internship I and Internship II. Placement of students is the responsibility of the College of Education.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be placed in internships and/or hired as a teacher. All school districts require fingerprinting prior to Internship I. All applications for internships are made through the Office of Clinical Experiences.

Application deadlines for all Internships are as follow:
March 1 for Fall semester
September 15 for Spring semester

Admission to Internship I
Admission to Internship I will be granted when students who have been admitted to the College of Education meet the following additional requirements:
- Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) and/or Florida Teacher Certification Examination General Knowledge Test (no alternatives or waivers are accepted).
- Possess minimum overall GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I by deadlines listed above
- Meet any special departmental requirements
- Be recommended by the faculty of the department of the student’s major

Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a university coordinator. Students are enrolled in a limited number of related professional courses during the experience. Additional courses may be taken only with the consent of the academic program coordinator and department chair.

Admission to Internship II
Internship II is a 3-9-12 semester hour experience (depending on the program) normally completed during the student’s last semester. Internship II is considered a full-time experience, and students are permitted to enroll in other classes only with the consent of their academic program coordinator and department chair. Admission to Internship II will be granted when students have met the following requirements:
- Successfully complete Internship I
- Have on file passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) and/or Florida Teacher Certification Examination General Knowledge Test (no alternatives or waivers are accepted)
- Possess a minimum overall GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses, and a minimum GPA of 2.5 is required in the professional preparation and specialization areas.
- Complete a formal application for Internship II by deadline
- Be recommended by the faculty of the department of the student’s major
- Meet any special departmental requirements

Students must also have completed all methods courses and most of their specialization courses. Some programs (such as Elementary Education) require all specialization courses to be completed prior to Internship II. Students must also be approved for admission by the faculty in the department of the student’s major. Internship II experience is completed locally. Guest internships will not be permitted.

Office of Minority Programs in Education
Director: Fritzlaine M. Powell; ED 110, 407-823-0184
The Office of Minority Programs in Education (MPIE) is designed to recruit and retain minority 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 minority 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, Hispanic, Native American, or Pacific Islander
- Must be a Florida Resident
- Must 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
- Must complete 40 hours of community service for each year the scholarship is received

Application deadlines:
July 1 for Fall semester
November 15 for Spring semester

Office of Student Services
Director: Tina M. Smilie; ED110; 407-823-3723
The College of Education Office of Student Services assists students with orientation, registration information, general academic advisement, college and University academic requirements and graduation certification. Students are assigned a faculty advisor upon meeting College of Education admission requirements. Students are encouraged to make an early appointment with an academic advisor.

Information regarding majors offered by the College of Education can be obtained in the Office of Student Services or at http://www.edcollege.ucf.edu/ (click on Student Services).

Admission to the University of Central Florida does not imply admission to the College of Education. Students will be allowed to enroll in the 3000/4000 level courses taught by the College of Education after they have been admitted to the College.

Graduation Requirements
To qualify for graduation, a student must successfully complete all coursework to include a minimum overall GPA of 2.5, a minimum 2.5 GPA in all specialization courses, and a minimum 2.5 GPA in professional preparation courses. In addition, students must pass all applicable sections of the Florida Teacher Certification Exam (FTCE) and complete a portfolio according to program guidelines to meet graduation requirements.

Alternative Certification for Non-Degree Students
All students who have earned a Baccalaureate degree from an accredited institution and who desire to be certified in Elementary Education must complete an undergraduate or masters degree program in Elementary Education. For other certification areas for which the College has programs, students may elect to complete 1) an undergraduate degree 2) a graduate degree or 3) an alternative pro-
gram as a post-baccalaureate student. Students must meet regular admission requirements for the College of Education and Teacher Education.

Department of Educational Studies

**Chair:** Karen L. Bramaia; ED 209B; 407-823-2426  
**Assistant to the Chair:** Deborah Becker; ED 206-E; 407-823-6579

**Faculty:** Ackley, Allen, Boote, Brown, Condly, Gill, Hewitt, Holt, Hutchinson, Johnson, Kaplan, Koger, Loudermilk, Luckett, Lue, Meyer, Miller, Munroe, Otter, Short, Sluti, Stewart

The Department of Educational Studies serves all students in the College of Education. The Department provides instruction in the core professional courses that address the competencies and skills needed by all undergraduate majors. These courses emphasize learning theory, teaching strategies, diversity, and the social, philosophical and historical foundations. The Department provides coursework for all masters and doctoral programs in education, and coordinates the core courses for the Curriculum and Instructional Doctoral Program and the Graduate Certificate in Initial Teacher Preparation. The Department houses the Masters of Education in Curriculum and Instruction Program, with M.Ed., M.A. and Graduate Certificate options in Gifted Education, Urban Education, and Multicultural and Global Education. Educational Studies graduate courses provide opportunities for students to advance their knowledge and skills related to multicultural, social, and psychological factors, curriculum and instructional theories, and the historical and philosophical factors that influence education.

Department of Child, Family, and Community Sciences

**Chair:** TBA; ED 209-H; 407-823-2595  
**Assistant to the Chair:** Roanne G. Brice; ED 206-D; 407-823-0664

**Faculty:** Albers, Angelopoulos, Balado, Blanes, Casado, Cross, Daire, Dieker, Edwards, Englentart, Ezell, Fuller, Hartle, Hayes, Hines, Hughes, Jennings, K.D. Jones, L. Jones, Klein-Ezell, Little, Manning, Martin, Miller, Mumford, Platt, Robinson, Taub, Thomas-Richmond, W. Wienke, Young

Undergraduate academic major programs leading to bachelor's degrees and certification are offered in Child, Family and Community Sciences. Students who major in Early Childhood Education are qualified to teach Pre-Kindergarten through grade 12 upon graduation and receipt of a Pre-Kindergarten through Primary Florida Teaching Certificate. (Pre-Kindergarten Exceptional Student Education is embedded in this certification). Students majoring in special education are certified K-12 in exceptional student education. Students are responsible for completion of program requirements and are encouraged to review their programs with an assigned advisor.

Several graduate level programs are available in the department:

The Master of Education in Exceptional Education: Exceptional Student Education is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exceptional Student Education is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.

Also available is the Master of Arts in Physical Education with emphasis in Exercise Physiology and Wellness. Certification and Master's level programs are available in Early Childhood Education and Counselor Education, with an emphasis on school counseling or mental health counseling. A Specialist Program is available in School Psychology. A graduate level certificate program is available in Sports Leadership. The Ph.D. in Education is available with tracks in Counselor Education and Exceptional Education.

Department of Teaching and Learning Principles

**Chair:** Robert Williams; ED 209-D; 407-823-4836
**Assistant to the Chair:** Lance Tomei; ED 206-C, 407-823-0523


Elementary/Middle Education

The Elementary Education program is designed for prospective teachers interested in the education of children, five through twelve years of age. Students who major in elementary education are qualified to teach grades kindergarten through six upon graduation and receipt of a Florida teaching certificate.

Secondary/Post Secondary Education and Training

Programs in this area are designed for prospective teachers 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. The Technical Education and Industry Training degree also offers a track specifically designed for students seeking state certification in Business Education (9-12).

K-12 Education

Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. Specialization is available in Art, Foreign Language (French and Spanish), and Physical Education.
College of Engineering and Computer Science

Dean: Neal C. Gallagher; ENG2 202; 407-823-2156
Interim Associate Dean for Research: Kien Hua;
ENG2 202; 407-823-2156
Associate Dean for Academic Affairs: J. F. Nayfeh;
ENGR 107; 407-823-2455
Director, Academic Support Services: Melissa Falls;
ENGR 107; 407 823-2455

Director of College Honors Programs: Jay Kapat,
ENGR 308; 407-823-2179
Assistant Dean for Distributed Learning: Samuel Richie;
ENGR 289; 407-823-5765
Director, Minority Engineering & Computer Science Programs:
Jacqueline Smith; ENGR 281; 407-823-3466
Undergraduate Majors and Degrees

Aerospace Engineering
Civil Engineering
Civil Engineering - Construction
Engineering Concentration
Computer Engineering
Computer Engineering - Software
Engineering Concentration
Computer Science
Electrical Engineering
Electrical Engineering - Wireless
Communication Concentration
Electrical Engineering - Microelectronics Concentration
Electrical Engineering Technology - Computer Systems Concentration
Electrical Engineering Technology - Electrical Systems Concentration
Electrical Engineering Technology - Photonics Concentration
Engineering Technology - Design Concentration
Engineering Technology - Operations Concentration
Engineering Technology - Space Systems Concentration
Environmental Engineering
Industrial Engineering
Information Systems Technology
Information Technology
Mechanical Engineering - Energy Systems Concentration
Mechanical Engineering - Mechanical Systems Concentration
Mechanical Engineering - Materials Concentration

Integrated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering, Engineering Technology, and the Information Technology Program are offering an integrated BS/MS degree program which will allow students of high academic standing to complete an MS degree at an accelerated pace. The generic rule for students in this program is that they will be allowed to use up to nine hours of intermediate level (5000) graduate courses with a grade of "B" or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the individual program descriptions in the graduate and undergraduate catalogs. They may also contact the department Assistant Chair and/or Graduate Coordinator if they have any further questions.

College Vision

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

College Mission Statement

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

- Providing 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: We tell the truth and are aboveboard and candid.
- Integrity: We foster trust and are consistent, always taking responsibility for our actions.
- Professionalism: We adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: We pursue life outside of our professional environment, giving our family a priority.
- Altruism: We work as a team, help each other, and sacrifice for the common good. We understand that our work is part of a larger purpose and plan.

College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate and graduate programs for universities, outreach, globalization and partnerships.
- An organization committed to obtaining the highest quality standards in all phases of its operations, processes, and management.
- A organization successful in obtaining resources to support academic development.

Students who seek a challenging technical career in research and development, design, technical sales, manufacturing, management, teaching, or other professions requiring a methodical, creative solution to problems should seriously consider pursuing an education in engineering, engineering technology, or computer science. The internationally-recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today's engineer, engineering technologist, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanitarian 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 Computer Science (SCS) and four engineering departments: the Civil and Environmental Engineering (CEE) Department, the Electrical and Computer Engineering (ECE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Computer Science is comprised of the Computer Science Department and Information Technology. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

All components of the Engineering and Computer Science Division, except Information Technology, also offer advanced studies leading to master's degrees and the Doctor of Philosophy degree; see the Graduate catalog for further information on these graduate programs. The undergraduate engineering programs in Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering are fully accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012. Telephone: (410) 347-7700, Fax: (410) 625-2238. ABET is recognized by the U.S. Department of Education
as the sole agency responsible for accreditation of educational pro-
grams 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 bac-
calaureate concentrations in Design, Operations and in Space
Sciences, leading to the Bachelor of Science in Engineering
Technology (BSET) degree, and concentrations in Electrical,
Computer Systems, and in Photonics, all leading to the Bachelor of Science in Electrical Engineering Technology (BSEE) degree.
Both the BSET and BSEE degrees are accredited by the Technology
Accreditation Commission (TAC) of the Accreditation Board for
Engineering and Technology (ABET), 111 Market Place, #1050,Baltimore, MD 21202-4012, Telephone: (410) 347-7700, FAX:
(410) 625-2238. The Engineering Technology Department also offers
a Bachelor of Science degree in Information Systems Technology
(BS). This degree is designed for students who have completed 33
credit hours of lower level technical courses at a community college
in the areas of networking, programming, information technology,
computer science, computer engineering and technology or closely
related disciplines.

The College houses the ROTC Division for those students desiring
to pursue military training while earning their degree. The AFROTC
program offers a minor in Aerospace Studies, and the AROTC pro-
gram offers a minor in Military Science.

The Honors Program in the College of Engineering and Computer Science

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

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

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

The Honors in the Major Program

The College of Engineering and Computer Science Honors in the
Major program is designed for two types of students: 1) Highly quali-
ﬁed students who did not participate in the University Honors
Program and would like to have the experience of an Honors curricu-
mum when offered by what the University Honors Program
offers. The centerpiece of the Honors in the Major Program is the
opportunity to undertake independent research as an under-
graduate under the guidance of a faculty member in his/her major.
The Honors in the Major represents a total of six semester hours of
work. These credit hours are acceptable as technical electives by all
programs leading to a degree in Electrical Engineering, Computer
Science, and Computer Engineering in the HIM program use the HIM
credits in lieu of Senior Design I and II. These six credit hours consist
of anHonors in the Major Seminar titled Research Methods in
Engineering (EGN 4931H) (three semester hours), plus three semes-
ter hours of Undergraduate Honors Thesis (EGN 4970H).

The latter will result in an undergraduate thesis which will describe
the research done by the student. The student will defend his/her
thesis before a committee of faculty in the field as part of an oral
examination covering the honors work. A sponsoring faculty member
is required to supervise the undergraduate thesis.

In order to be admitted to the Honors in the Major program, the stu-
dent must:
1. Have at least 60 semester hours, including at least 12 graded,
upper division semester hours at UCF.
2. A minimum UCF GPA of at least 3.20 in all upper division
courses.
3. A minimum GPA of 3.50 or more in the Engineering option
courses.
4. A recommendation by a sponsoring faculty member. Exceptions
to the eligibility criteria may be made by the College Honors
Committee in individual cases, upon recommendation by a spon-
soring faculty member.

To successfully complete the HIM program and receive said designa-
tion, the student must successfully defend the thesis and graduate
with a minimum 3.5 GPA in the option courses, and minimum 3.2
GPA at UCF. No exceptions to this policy will be made for gradua-
tion. Successful candidates will be awarded an Honors in
Engineering/Engineering Technology/Computer Science mention on
the diploma and transcript, representing satisfactory completion of
the program. Moreover, each department will award a limited number
of graduate scholarships (with tuition waivers) to those who apply for
graduate school and have successfully completed this program.

Application for admission to the Honors in the Major Program must be
made to the College of Engineering and Computer Science
Honors Director, Avelino Gonzalez, Engineering Building, room 411.
For more information about The Burnett Honors College programs,
please visit their homepage at http://pegasus.cc.ucf.edu/~honors/.

The LEAD Scholars Program in the College of Engineering and Computer Science

Engineering, engineering technology, and computer science students
may also participate in the LEAD (Leadership Enrichment and
Academic Development) Scholars Program (see the section on the
LEAD Scholar Program found elsewhere in this catalog).

Additional Information on UCF Baccalaureate Engineering, Engineering Technology, and
Computer Science Programs

Information on each UCF engineering, engineering technology, com-
puter science, and information technology program follows, and
more current information can be found on the College home page at
http://www.cecs.ucf.edu/, and on the home pages of each depart-
ment. For the home page associated with a particular program, see
the listing for that department in the following pages of this catalog.

Department of Civil and Environmental Engineering

Interim Chair: D.R.Reinhart; ENG2 211; 407-823-2841,
Fax: 407-823-3315
Faculty: Abdel-Aty, Al-Deek, Catbas, Chopra, Cooper, Dietz, Hagen,
Kuo, Nnadi, Oluofa, Onyemelukwe, Radwan, Randall, Reinhart,
Taylor, Wanielista, Wayson, Yeh, Zhao

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

The Civil Engineering Program

The Civil Engineering major is concerned primarily with fundamental
civil engineering design and analysis in such areas as structures,
geotechnical engineering, sanitary engineering, water resources,
transportation engineering, and construction engineering. Civil
Engineering students are required to take a minimum of two Project
Design Courses (out of six offered), which synthesize various pre-
requisite course offerings into a design project. Students in the Civil
Engineering with Construction option are required to take two Project
Design Courses (Construction Design Project and Geotechnical
Engineering Design). These projects are usually “open-ended” and
duplicate real world engineering problems. The students typically
work in small design team groups. The pre-requisites needed for
the various project courses vary.
Mission
The Civil Engineering Program Faculty strives to create a high-quality learning experience for our students. The principal goals include:

1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Civil Engineering graduate education and research.

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. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The Environmental Engineering Program
The Environmental Engineering major is concerned primarily with the interactions between humans and their environment and the planning, design, and control of systems for environmental quality management for water, land, and air environments.

Environmental Engineering students are required to take a minimum of two Project Design Courses (out of four offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission
The Environmental Engineering Program Faculty strives to create a high quality learning experience for our students. The principal goals include:

1. Produce a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Civil Engineering graduate education and research.

Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Environmental Engineering such as solid waste, air pollution, water and wastewater treatment, and water resources.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

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

Department Policy for Dual BS Degrees in Civil and Environmental Engineering
The faculty of the Civil and Environmental Engineering Department believe that a dual degree from our department should reflect a significant achievement of students, and therefore a significant increase in knowledge and formal coursework above the requirements for a single degree. Any undergraduate in Civil or Environmental Engineering desiring to obtain his or her Bachelor's degree in both disciplines shall meet the following requirements:

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

Additional notes:
- All students, by meeting the requirements for each degree, will be able to represent themselves as either a Civil Engineer or an Environmental Engineer or both.
- The 24 hours represents two additional semesters of full time enrollment, and represents the minimum requirements for a second degree.
- The 24 hours of courses beyond a single degree means that, currently, 152 hours of approved coursework would be required for the dual degree.
- The 24 hours of courses would include all the required courses of the other discipline (15 hours) plus two additional capstone design courses plus one technical elective (as approved by the Chair).
- The dual degree program for a student must be approved by the Chair in the final year. This eliminates last-minute confusion by the student and allows the Chair time to review the technical elective, and the specific design courses being taken by each student.

School of Computer Science
Director: TBA; CSB 201; 407-823-2341
Faculty: Allen, Bassouni, Brigham, Deo, Dutton, Favorov, Foroosh, Frederick, Gerber, Gomez, Guha, Heinrich, Hughes, Lang, Lee, Leesons, Lisetti, Llewellyn, Lobo, Marin, Marinescu, R. Miller, Moshell, Mukherjee, Orooji, Parsons, Pattanaik, Reinhard, Rogers, Rolland, Shah, Vemulapali, Workman, A. Wu

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 must 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.
College of Engineering and Computer Science

These may be found by following links from the computer science home page at http://www.cs.ucf.edu/

Mission

The mission of the Computer Science program is to educate majors in the principles and practices of computer science, preparing them for graduate school, for careers in software development and computing technology, and for a lifetime of learning.

Objectives

1. CS majors should be practiced in the design and analysis of algorithms using mathematical and statistical methods and techniques.
2. CS majors should be proficient in the use of modern and widely-used programming languages.
3. CS majors should be practiced in abstract reasoning and modeling of complex real-world systems.
4. CS majors should be practiced in oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing technology and applications.
5. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
6. CS majors should be highly competitive in securing entry-level positions in software and computer system development industries.
7. The top fifteen percent (15%) of all graduating CS majors shall be qualified and prepared for pursuing graduate studies in the top tier graduate schools in Computer Science.

The Information Technology Program

The Information Technology program offers courses leading to the Bachelor of Science degree in Information Technology. Information Technology encompasses computer hardware, software, peripheral devices and their use in communication networks and information systems. IT-related disciplines include database engineering, network engineering, performance planning, system security, digital media design, and web server design. The program provides students a strong conceptual core, which will prepare them to be lifelong learners, along with significant hands-on experience. The inclusion of advanced courses in technical writing, a course in ethics, and five upper division courses in an area outside information technology will prepare these students to deal with the subject areas and communicate in the parlance of the industries in which they choose to work. Basically, students will have an interdisciplinary core in which the principles and practices of the three disciplines of the School are presented in a cohesive, connected manner. They will then create their own multidisciplinary component by taking upper division courses that are typically outside the College of Engineering and Computer Science.

Mission

The mission of the Bachelor of Science in Information Technology Degree Program is to educate students in the science and practices of information technology, preparing them for a lifetime of learning and for careers in information technology as well as in a wide variety of disciplines that integrate information technology into their respective fields of activity.

Objectives

1. Graduates will learn the principles and practices of information technology, along with the mathematical and engineering foundations of this discipline.
2. Graduates will obtain the skills to solve complex problems via the development of models, and the design, implementation, and analysis of computer realizations of these models.
3. Graduates will receive an education that enables them to design, implement, and administer complex distributed information systems, including the archival databases and the communication infrastructures associated with such systems.
4. Graduates have the opportunity to obtain a strong background in at least one discipline, outside information technology, in which information technology plays a critical role.
5. Graduates will be prepared for successful careers in information technology. This preparation will include the abilities to work in teams, to communicate effectively, and to experience a lifetime of learning.

School of Computer Science Policies and Procedures

The School's web site (http://www.cs.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 advising, 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.

Minors:

Information Technology and Computer Science

Department of Electrical and Computer Engineering

Acting Chair: Issa Batarseh; ENGR 407; 407-823-2787

Faculty: Batarseh, Bauer, Berrios, Boloni, Chatterjee, DeMara, Ejnioui, Georgiopoulos, A. Gonzalez, F. Gonzalez, Haralamvous, Jones, Kasparis, Klee, Kocak, Liou, Malocha, Mikhail, Petrasko, R. Phillips, Qu, Richie, Schiavone, Shen, Sundaram, Turgut, Wahid, Wei, T. Wu, Yuan

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 are appropriately combined 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 18 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
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 mathematics, 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/](http://www.ece.ucf.edu/).

Department of Electrical and Computer Engineering Policies and Procedures
The department’s web site is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ’s) concerning academic advisement, student professional societies, undergraduate research opportunities, and means to effectively communicate concerns (comments, suggestions, complaints). We ask that you visit this site and follow its guidelines before you send e-mail and letters, or make phone calls to faculty members and administrators.

Department of Industrial Engineering and Management Systems
Chair: Lesia Crumpton-Young; ENG2 312; 407-823-2204, Fax 407-823-3413

Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service for their tax dollars.

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

Engineering design experiences are incorporated into many of the required industrial engineering core courses. For instance, students learn how to apply the principles of engineering design to production systems and cost estimation in EIN 3354, to work methods and process flows in EIN 3314, and to facilities design and plant layout in EIN 4364. The design experience concludes with a real-world system design in the two-semester capstone design sequence, EIN 4116 and EIN 4481.

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
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 curriculum with increased emphasis on student creativity, open-ended problems, materials selection, design methodology, feasibility considerations, alternative solutions, and concurrent design, and culminates in the senior capstone design courses. The use of computers and written and oral communication are part of the design experiences throughout the programs.

Mission: Aerospace Engineering

In support of the University and College missions, the Aerospace Engineering program at UCF is committed to provide the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Aerospace Engineering Program Educational Objectives and Outcomes

Career Preparation: The program prepares graduates for employment as engineers in aerospace or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize aeronautical systems or space systems, and will have a command of corresponding engineering principles. Among the obvious career opportunities are 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 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 mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Mission: Mechanical Engineering

In support of the University and College missions, the Mechanical Engineering program at UCF is committed to provide the highest quality engineering professionals and leaders. Through cooperative efforts with regional industry, our graduates will be well prepared for their role as mechanical engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Mechanical Engineering Program Educational Outcomes and Objectives

Career Preparation: The program prepares graduates for employment as engineers in mechanical or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize mechanical systems, energy systems, or materials, and will have a command of corresponding engineering principles. Among the career opportunities are power generation, mobility engineering, manufacturing, nuclear applications, from zipper to space shuttle.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in mechanical technologies, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Department of Engineering Technology

Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746
Program Coordinator BSET Programs: L. Morse; ENGR 207; 407-823-4742
Program Coordinator: BSET Programs: A. Rahrooh; ENGR 207; 407-823-4749
Program Coordinator Information Systems Technology: B. Motlagh; ENGR 207: 407-823-4742
Faculty: Burroughs, Coowar, Divo, Ducharme, Misconi, Morse, Motlagh, Osborne, Rahrooh

Mission

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

Objectives

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

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

Bachelor of Science in Electrical Engineering Technology (BSET)

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.

**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 manufacturing operations in the manufacturing, sales, services, and construction industries. Graduates may become involved in many diverse areas including product development, manufacturing, quality assurance and logistics, sales, field engineering, technical writing and safety. The Space Science Technology concentration prepares students for a career in launch and space operations, payload management, and other requirements to work in the space industry. Projects in solving real-world problems, are required of all students in the BSET program. In addition to the engineering technology core, all concentrations in the BSET program have a common lower division core as well as a common upper division core.

**Faculty/Staff:** Major Nowotny, Major Turner, Captain Williams, TSgt Fields, SSgt Crawford, and Mrs. Fioramanti, Office Manager

The Department of Aerospace Studies provides pre-commissioning education for qualified students who desire to serve as commissioned officers in the active duty Air Force. The department offers four-year, three-year, and two-year Air Force ROTC programs. The four/three-year program provides on-campus study during the freshman through senior years. The two-year program allows community college transfer students and other students with two academic years remaining in either undergraduate or graduate status to earn an Air Force commission while completing their studies. All programs offer scholarship opportunities to selected students. Students are invited to write or visit the Department of Aerospace Studies to obtain additional information. The Air Force retains sole discretion whether or not any applicant is qualified for pre-commissioning education through the Air Force ROTC. More information on the Aerospace Studies program can also be found on the UCF AFROTC home page at [http://airforce.ucf.edu](http://airforce.ucf.edu) or e-mail us at AFROTC@mail.ucf.edu. This information is subject to change.

**Curriculum**

Students enrolled in the Air Force ROTC program may major in any academic discipline and earn a minor in Aerospace Studies. A major is not offered by this department. AFROTC courses are listed under the prefix AFR. The curriculum is divided into two phases:

1. **General Military Course (GMC)**
   - The General Military Course is designed to give students their first exposure to the Reserve Officer Training Corps program during their freshman and sophomore years. The courses deal with the mission, organization, and structure of the US Air Force, and the development of air power into a prime element of American national security.

2. **Professional Officer Course (POC)**
   - The Professional Officer Course is designed to develop and hone managerial and officer skills during a student's junior and senior years. All students who seek a commission through the Air Force ROTC must complete the POC curriculum. The curriculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

**Leadership Laboratory**

Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Requirements for entry into the Professional Officer Course:

- Be at least 17 years of age at the time of acceptance
- Be able to complete the Professional Officer Course and complete all degree requirements prior to reaching age 29 if entering Flight Training, or before age 30 (can be waived to age 35) if entering a non-flying Air Force specialty
- Pass the Air Force Officer Qualifying Test
- Pass an Air Force medical examination
- Pass the Air Force Physical Fitness Test each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or six weeks)
- Enlistment in the Air Force Reserve certifying agreement to complete the POC and accept an Air Force Commission. This enlistment is terminated upon receipt of a commission.

**Monetary Allowance**

All contracted students enrolled in the Professional Officer Course receive a tax-free monetary allowance of $350 or $400 per month based on their academic classification.

**Air Force ROTC Scholarship Program**

Scholarships are phased at four, three, two, and one-year opportunities. This system provides opportunities to those students enrolled in certain academic majors. Depending on state residency and credit hours, these scholarships may provide for full tuition and fees, and an allowance for textbooks. For additional information on Air Force ROTC call 407-823-1247 or visit our web site at [http://airforce.ucf.edu](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 with a reserve commission, they will serve a minimum active duty tour which varies in length depending on their particular career area (typically four years). Such obligations are explained in detail during the one-on-one counseling sessions conducted with each candidate by detachment officers.
Army ROTC (Military Science)

Chair: LTC Allison R. Reinwald; Trailer 501, Room 110

Faculty/Staff: LTC Christensen, CPT Brown, CPT Hernandez, CPT Plumtree, MSG Helems, MSG Celestine, SSG Phillips, SSG Blunt, SGT Rodriguez, Ms. Betty Martin, Office Manager; 407-823-2430, Fax 407-823-5324

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

Curriculum

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

1. Basic Military Science

A. The Basic Military Science courses, open to both men and women, are designed for four-year participants and are normally offered during the freshman and sophomore years. These courses address military organizations, equipment, weapons, map reading, land navigation, management skills, trade 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 $350.00 per month up to 10 months during their Junior year and $400.00 per month during the Senior school year. Each student is required to take courses that meet the Army’s Professional Military Education Requirements. Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced program.

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

3. Monetary Allowance

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

4. Scholarships

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

5. Placement Credit

Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

6. Daytona Beach Campus Students

These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training Courses

1. Basic Course Summer Training (Leader Training Course)

A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning within two years. Students attending the summer course receive approximately $700.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

2. Specialized Summer Training Courses

Qualified students can be selected to attend specialized military training occurring the summer months. These areas of training include: a) Airborne Training; b) Air Assault Training; c) Northern Warfare Training; d) Cadet Troop Leadership Training; e) Master Fitness Training; and f) Mountain Training.

3. Leadership Development and Assessment Course (LDAC) All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student's leadership performance and potential. Students normally attend LDAC after their junior year and receive approximately $900 pay for the training.
College of Health and Public Affairs
Dean: Belinda R. McCarthy; HPA I 365; 407-823-0171
Associate Dean: Stephen Holmes; Graduate Studies and Technology; HPA I 365; 407-823-0171
Associate Dean, Undergraduate Studies: Pamela Kirby; HPA I 365; 407-823-0171
Assistant Dean, Student/Personnel Affairs: Melvin Rogers; HPA I 365; 407-823-0171
Website: http://www.cohpa.ucf.edu

The College of Health and Public Affairs houses six departments and schools: the School of Nursing, the School of Social Work, and the departments of Communicative 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: Schools of Nursing and Social Work, and the Programs in Athletic Training, Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences. Application must be made to the appropriate program in health sciences. For Social Work and Nursing, contact the appropriate School. Additional information regarding prerequisites and 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: Communicative Disorders, Criminal Justice/Legal Studies, Public Administration, Health Sciences Generalist, and Health Services Administration.

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

The College of Health and Public Affairs Office of Student Support assists undergraduate students in understanding matters relating to college and university requirements and procedures as well as coordinating orientation, registration and graduation certification. Students interested in pursuing limited access programs are encouraged to meet with advisors in the college to stay on track by taking the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those who are having academic difficulty. Questions concerning university and college academic policies should be directed through this office. Faculty advisors are assigned to students upon admission to their degree program in their academic department.

Programs and Degrees

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<tr>
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<td>Radiologic Sciences</td>
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<td>Social Work</td>
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Departments and Programs
Department of Communication Disorders
Chair: R. J. Lieberman; HPA 101; 407-823-4798
Undergraduate Coordinator: Jamie Schwartz
Clinic Director: C. Harvey; Research Pavilion Suite 155; 407-249-4770
Faculty: Barrett, Brice, Carson, DiNapoli, Dreiling, Edison, Harvey, Kent-Walsh, Lieberman, Nye, Parson, Ratusnik, Riess, Rivers, Rosa-Lugo, Ruddy, Ryalls, Schwartz, Secord, Utt, Vanryckeghem, Whiteside

The discipline of communication sciences and disorders involves the prevention, evaluation, management, and study of human communication and its 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 conjunction with a departmental advisor to meet their individual interests and career objectives.

In addition to course work in Communication Disorders, the Department offers a four-course sequence in American Sign Language open to the entire university community: SPA 4612, SPA 4613, SPA 4614C, and SPA4615.

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

Department of Criminal Justice and Legal Studies
Chair: B.J. McCarthy; HPA 311; 407-823-2603

The Department of Criminal Justice and Legal Studies includes two undergraduate 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 Alpha 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

Department of Health Professions
Chair: Diane M. Jacobs; HPA 210; 407-823-2359
Faculty: Aciero, Bertetta, Douglass, Edwards, Falen, Fotller, Gosnell, Hamby, Liberman, Ludy, Lylte, Malvey, McDonough, Medendorf-Hall, Noblin, Oetjen, Parson, Schellhase, Segal, Smith, Trujillo, Unruh, Wagner, Welker, Worrell

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

The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with an accent on educating future leaders of the health care system. The Department seeks first to strengthen existing programs, as well as to identify and develop new programs that fulfill a documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, and scientific presentations. Finally, the Department seeks to provide continuing education for the health care community and consumer health education.

The programs in Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences require a minimum overall GPA of 2.5 for 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, disease and patient assessment, and patient management. Upon completion of the undergraduate program, the baccalaureate prepared individual will possess basic and advanced practice 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. This is a limited access program and requires a separate application to the program 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: Tom Falen; HPA 210; 407-823-2369
Health Information Managers are professional members of the modern health care team responsible for: 1) the acquisition and supervision of 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 to administration, other health professionals, and medical staff in developing quality assurance programs by abstraction of medical data, preparation of statistical reports, and analysis of information, and 4) assistance in collection and analysis of data for public health services planning.

The curriculum of the Health Information Management program is approved by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). This is a limited access program and requires a separate application to the program.
Program in Health Sciences-Athletic Training

Director: K. Scheilhase; HPA2 124; 407-823-3463

The Program in Athletic Training at the University of Central Florida is a track in the Program in Health Sciences. The athletic training track is a six semester program where students complete 12-15 credits per semester while engaged in clinical affiliations. The core of athletic training coursework emphasizes skills and competencies necessary for successful clinical practice in a variety of settings in which athletic trainers are presently employed. A significant and important aspect of the educational process is the series of clinical experiences that occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, sports medicine clinics, and professional athletic organizations. Upon successful completion of the course of study, the graduate with a Bachelor of Science degree in Health Sciences is eligible to take the National Athletic Trainer's Association Board of Certification (NATABOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (C.T.C.). The Athletic Training program is accredited by the Joint Review Committee on Education Programs in Athletic Training (JRC-AT) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This is a competitive program that requires a separate application process following acceptance into the University. Consent from the program director is required.

Degrees: Health Sciences (BS)
Tracks: Athletic Training
Minors: None

Program in Health Sciences-Generalist Track

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

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

Degrees: Health Sciences (BS)
Tracks: Generalist
Minors: Health Sciences

Program in Health Services Administration

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

The department offers a baccalaureate degree in Health Services Administration. The baccalaureate degree is designed for students who desire to study the business side of health care. The primary goal of the program in Health Services Administration is to prepare managers to direct a variety of health care organizations such as hospitals, HMO’s, clinics and any other organization involved in the delivery or management of health care services. The undergraduate curriculum is consistent with the curricular requirements of the Association of University Programs of Health Administration, stressing administration, policy and planning skills. A diverse health care community offers students a variety of internship experiences as well as providing placement opportunities upon graduation. Faculty are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment and integrated delivery mechanisms. People within the health care industry with associate of science degrees in areas such as nursing, respiratory therapy, radiologic technology, medical laboratory technology, dental hygiene, and others may find this program providing a migration path from the clinical side of the health care industry to the leadership side. Students without a background in the health care industry can build a solid understanding of the complexity of managing health services organizations.

Degrees: Health Services Administration (BS, MS)
Tracks: None
Minors: Health Services Administration, Health Sciences

Program in Radiologic Sciences

Director: T. J. Edwards III; HPA2 210; 407-823-2747

The University of Central Florida offers the only public accredited Bachelor of Science in Radiologic Sciences degree program in Florida. The Radiologic Sciences Program offers entry-level students the opportunity to specialize in conventional radiography and the advanced imaging modalities. Radiographers are integral members of the health care team dedicated to providing high quality patient care. Graduates are prepared to function as clinically competent radiographers and, with experience, advance to leadership positions in their profession.

The University of Central Florida also sponsors an A.S. to B.S. transfer program designed for ARRT certified Radiographers interested in combining their professional development with earning a baccalaureate degree in Radiologic Sciences. Didactic courses for the entry-level and 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 Diagnostic Center, Jewett Orthopedic 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

School of Nursing

Director: Jean D. Leuner; HPA 220; 407-823-2744

Faculty: Ahern, Ark, Blackwell, Brown, Bushy, Byers, Chen, Covelli, Dennis, Desmarais, Dorner, Dow, Gullo, Hagerstrom, Hennig, Holcomb, Hoyt, Kiehl, Kijek, Ladores, Lafferty, Lange, Leli, Mayer, Powel, Pelliccio, Peterson, Rudner, Ruland, Savitz, Sheplan, F. Smith, Lisa Smith, Lynn Smith, Sole, Stickney, Wink

The nursing curriculum leads to the Bachelor of Science in Nursing degree, the basis of professional nursing practice. The BSN graduate is prepared to provide comprehensive care in a variety of academic, community, and rehabilitative settings. Program emphasis includes clinical nursing practice, health promotion and maintenance, and preparation for assuming leadership roles. The baccalaureate curriculum provides the foundation for graduate study in nursing. Students with a prior baccalaureate or higher degree from a regionally accredited college or university are eligible for the Accelerated Second Degree Bachelor of Science in Nursing option.

Registered nurses licensed in Florida are eligible for admission into the RN to BSN Program at UCF. Each applicant is reviewed individually and guided to prevent repetition of previous coursework. RNs may submit applications during any semester. Contact the School of Nursing for specifics on the RN-BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, and Leesburg campuses. The RN-BSN is also offered via the Internet.

The goal of the MSN program is to prepare advanced practice nurses to assume leadership positions in a variety of healthcare settings. Majors include Nurse Practitioner (Family, Adult, or Pediatric),...
Clinical Nurse Specialist, and Nursing Leadership and Management. Minimum hours for the degree are 43-49 hours of graduate work depending on the major. Either a thesis or research scholarly project is required. Student must be a licensed Registered Nurse in Florida. A certificate in Nursing and Health Professional Education is available for students with a bachelor's degree in nursing or a related health field.

The doctor of philosophy in Nursing (PhD) program prepares nurse scientists to assume positions as nursing faculty, leaders in the application of innovative technologies to nursing education and clinical care, executive leaders in health care systems and scientists who contribute to the body of nursing knowledge through research.

The School of Nursing BSN and MSN programs are accredited by The Commission on Collegiate Nursing Education. The BSN Program is approved by the Florida Board of Nursing. All programs are limited access and require a separate application to the School of Nursing.

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

Department of Public Administration
Chair: Montgomery Van War: HPA2 238; 407-823-2604
Faculty: Colby, Feldheim, Jurie, Korosec, Kapucu, Lawther, Liou, Rogers, Van War, 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 20 million employees, and the nonprofit sector has expanded to nearly half that number. The Department prepares students for professional careers in public service at the city, county, state and federal levels. Currently the public sector in the United States 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 attain entry level positions in government and other nonprofit organizations, and subsequently to advance within their organizations. Those seeking senior management and executive positions are strongly encouraged to pursue the Master of Public Administration (MPA) or Master of Nonprofit Management (MNM).

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, American Humanities
Certificates: Non-Profit Management

School of Social Work
Director: TBA: HPA1 204; 407-823-2114
Faculty: Abel, Allgood, J. Davis, L. Davis, Gammonley, Green, Jacinto, Kohn, Leon, Maiden, Massey, Turnage, VanHook

The School of Social Work offers a professional degree program that is nationally accredited by the Council on Social Work Education. Its primary focus is the preparation of students for entry-level professional social work practice within diverse human service organizations such as hospitals, schools, correctional settings, public welfare departments, child placement organizations, community centers, and counseling agencies. The Social Work program is a limited access program that requires separate application to the School of Social Work.

The School of Social Work also offers the Certificates of Aging Studies (open to all majors), Children’s Services (open to SW majors only) and Addictions (open to SW majors only). The Aging Studies Certificate is an interdisciplinary program that helps prepare the students to meet the needs of the elderly citizens of Central Florida. The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing or sociology. Other students, such as those majoring in business, physical education, or art education may also find the program valuable. The Certificate in Children’s Services (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, American Humanities
Certificates: Addictions, Aging Studies, Children’s Services
College of Optics and Photonics: CREOL and FPCE

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

The College of Optics and Photonics: CREOL and FPCE is a graduate school for research and education in optics, lasers, and photonics. It was established in 1986 to provide the highest quality education in optics and lasers, conduct scholarly fundamental and applied research, and aid in the development of Florida’s high technology-based industries.

CREOL (Center for Research and Education in Optics and Lasers) and FPCE (the Florida Photonics Center of Excellence) are the research arms of The College of Optics and Photonics. The School offers Masters (MS) and Doctoral (Ph.D.) Degrees in Optics. The College of Optics and Photonics/CREOL has become an internationally recognized institute with 25 faculty members, 30 Ph.D. level research scientists, and 137 graduate students. The faculty are recognized as being among the best in the optics/laser/photonics field, with two thirds holding the rank of Fellow in major national and international professional societies. It is housed in a state-of-the-art 83,000-square-foot building dedicated to optics, photonics, and laser education and research on the main campus. This facility houses ninety research laboratories equipped with over $35 million in state-of-the-art equipment.

The research activities span the spectrum from basic science to prototype development. The faculty and research staff pursue joint research projects with industry, academia, and government laboratories, and are always seeking new opportunities to work with industry to expose students to the industrial environment and to help in technology transfer. Current research areas include: nanophotonics, biophotonics, imaging science, plasmonics, high-speed photonics networks and telecommunications, solid state laser development, nonlinear optics, laser induced damage, quantum-well optoelectronics, photonic information processing, infrared systems, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, x-ray optics, EUV sources, optical glasses, liquid crystal devices, laser materials processing, and light matter interaction. These programs are supported by over $17 million of research grants and contracts annually from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from $18,000 to $27,500, are available to outstanding students pursuing graduate education in optics and photonics. Research training opportunities are also available to undergraduate students through the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation, and other research grants and contracts.

The College has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of the College. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of optics and photonics.
The hospitality industry currently represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen 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 42 million tourists each year, has over 400 hotels with 120,000 rooms, 5,000 restaurants, and 75 theme parks and attractions. The industry employs a half million people in the State of Florida and many are in the Central Florida area.

The educational mission of the College is to provide students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, and to apply creative decision techniques in responding to those opportunities.

The curriculum is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and practical experiences that students will need to enter and succeed in a hospitality management career. Students also have the opportunity to experience the work world in hospitality through an internship requirement and through extensive contact with leading hospitality managers in the Central Florida area.

The Center for Multi-Unit Restaurant Management and the Darden Eminent Scholar Chair in Restaurant Management provide a unique focus in the curriculum on corporate restaurant management. Students have access through the Center to leading restaurant industry executives. This academic unit is an integral part of the Rosen College of Hospitality Management.

Distinctive Benefits
- A brand new 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:
- Hospitality Management (BS)
- Restaurant and Foodservice Management (BS)

Minor:
- Hospitality Management

Tracks:
- Event Management; Vacation Ownership Resort Management; Theme Park and Attraction Management; Tourism Management; Lodging Management; Hospitality Financial Management and Technology; Golf Management.
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</table>
# UCF Degree Programs

## 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)

<table>
<thead>
<tr>
<th>Area</th>
<th>Hours</th>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
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<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
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<tr>
<td>C. Mathematical Foundations</td>
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<tr>
<td>Select MAC 1105 College Algebra</td>
<td>3 hrs</td>
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<tr>
<td>Select CGS 2100C Computer Fund. for Bus</td>
<td>3 hrs</td>
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<tr>
<td>D. Social Foundations</td>
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<tr>
<td>Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics</td>
<td>3 hrs</td>
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<tr>
<td>Select one: PSY 1212, SYG 2000, ANT 2000</td>
<td>3 hrs</td>
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<tr>
<td>E. Science Foundation</td>
<td>6 hrs</td>
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</table>

#### 2. Common Program Prerequisites

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

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- *ECO 3401 Quantitative Business Tools I
- CGS 2100C Computer Fundamentals for Business

*At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

#### 3. Common Body of Knowledge (30 hrs)

First Semester in the College of Business Administration:

- GEB 3031 Cornerstone
- GEB 3356 Intro to International Business

First or subsequent semesters depending on major:

- 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
- BUL 3131 Legal and Ethical Environment of Business

Last Semester:

- MAN 4720 Strategic Management

#### 4. Special College and/or Departmental Requirements

- Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411 count towards this 60 hour requirement).
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have a “C” (2.0) or better in each common program prerequisites class.
- A minimum grade of “C” (2.0) must be earned in each accounting, business law, and tax course completed. Principles of Financial Accounting and Principles of Managerial Accounting are included under this rule.
- Students 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.
- All students must have credit for a course in each of the following areas:
  - Oral communication arts including written composition
  - Behavioral science such as psychology, anthropology, and sociology
  - Humanities
  - Political environment of business and society such as political science, public administration, and ethics
- Students must have at least a 2.0 GPA in the College of Business and in the accounting major.
- A grade of “C-” (1.75) or lower is not satisfactory for continuing into other accounting courses and will not count toward graduation for an accounting major.

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

- ACG 3131 Financial Accounting Concepts and Analysis
- ACG 4401 Accounting Information Systems
- ACG 3361 Intermediate Managerial Accounting
- 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 3005 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 additional financial reporting course:

- ACG 3141 Intermediate Financial Accounting
- ACG 3501 Accounting and Auditing in the Public Sector

Select one auditing course:

- ACG 4651 Auditing
- ACG 4671 Internal Auditing

Select one additional accounting course from the following:

**Restricted Electives**

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

#### 7. Restricted Electives (3 hrs)

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

- ACG 3131 Financial Accounting Concepts and Analysis
- ACG 3361 Intermediate Managerial Accounting
- ACG 3141 Intermediate Financial Accounting
- ACG 3501 Accounting and Auditing in the Public Sector
- ACG 4401 Accounting Information Systems
- ACG 4651 Auditing
- ACG 4671 Internal Auditing
- ACG 4692 Approve 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
- ACG 5205 Advanced Accounting
- BUL 5332 Advanced Business Law Topics
- FIN 3414 Intermediate Corporate Finance
- FIN 4453 Financial Models
- ISM 3005 MIS Techniques
- ISM 4212 Database Management Systems
- TAX 5015 Advanced Taxation Topics

**HPA electives to be added for Governmental Specialization**

**Enrollment restricted to students accepted into the Honors in the Major Program**
8. Honors in the Major (6 hrs)
Eligibility: Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credits including at least 12 graded upper-division hours at UCF; at least a 3.5 GPA within the major; and at least a 3.2 cumulative GPA including all upper-division courses regardless of institution. Admission: Application for admission to the Honors in the Major program must be approved by both the Honors in the Major Coordinator for the School of Accounting and Associate Dean of the Honors College plus the payment of $25.00 one-time membership dues.

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

- *ACG 4903 Directed Readings in Accounting or
  - *ACG 4904 Honors Seminar in Accounting plus

ACG 4970 Honors Thesis in Accounting 3 hrs

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

9. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. 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 at residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

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

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

Because of these increased educational requirements, no experience or additional course work is needed for certification. To satisfy the necessary coursework required by the law, the School of Accounting offers the Master of Science in Accounting (MSA) and the Master of Science in Taxation (MST) degree programs. Please see the Graduate Catalog for program requirements. For additional information about the department, curriculum, faculty, events, and careers in accounting, students are invited to visit our department homepage at: http://www.bus.ucf.edu/aacc/

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include:
  - Financial Accounting, Managerial Accounting, Macroeconomics, Micro-economics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative

- Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisite class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman
1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3 ENC 1105* 3
CulHist I 3 Cul-Hist II 3
MAC 1105* 3 ArtMusicLit 3
Psy/Soc/Ant 3 CGS 2100C* 3
Science 3 Science 3

Must complete 9 hours in a Summer term

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
ECO 2023* 3 ECO 2010* 3
**ACG 2021* 3 ACG 2071* 3
SPC 1600 3 POS 2041 3
***Elective 3*** Elective 3
***Elective 3*** Elective 3
***Elective 3 ECO 3401* 3

* “C” (2.0) or better grade required in each class
** Accounting majors must have a “C” (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major
*** General electives as required to reach 120 semester hours.

Junior
1st Term 15 hrs 2nd Term 15 hrs
GEB 3033 3 ECO 3411 3
***BUL 3130 3 GEB 3356 3
**ISM 3011 3 MAN 3025 3
**ACG 3130 3 **ACG 4401 3
**ACG 3361 3 **ACG 3361 3

** Accounting majors must have a “C” (2.0) or better in each class to include law and tax and a 2.0 GPA in major

Senior
1st Term 15 hrs 2nd Term 15 hrs
***Tax 4001 3 MAN 4720 3
ACG Specialization 3 **ACG Specialization 3
FIN 3403 3 **Elective 3
**ACG Specialization 3 **ACG Restricted Elective 3
MAR 3023 3 **Elective 3

***General electives as required to reach 120 semester hours.
than two years should apply immediately upon admission to UCF.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those 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 without prior approval.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. **UCF General Education Program** (39 hrs)

   A. Communication Foundations
      - Select MAC 2311 Calculus with Analy Geo I ( ua course)
      - STA 4942 Practicum Act Science
   B. Cultural and Historical Foundations
      - Select MAC 3311 Calculus with Analy Geo I
      - STA 4942 Practicum Act Science
   C. Mathematics Foundations
      - Select STA 2023 Statistical Methods I
      - STA 4942 Practicum Act Science
   D. Social Foundations
      - Select STA 2023 Statistical Methods I
      - STA 4942 Practicum Act Science
   E. Science Foundations
      - Select STA 2023 Statistical Methods I
      - STA 4942 Practicum Act Science

2. **Common Program Prerequisites** (14 hrs)

   - COP 3502C Computer Science I
   - ECO 2013 Princ of Macroeconomics
   - MAC 2311 Calculus with Analy Geo I
   - MAC 2312 Calculus with Analy Geo II
   - BSC 2010C Biology I
   - CHM 2045C Chemistry Fundamentals

3. **Core requirements** (44 hrs)

   a. Select one course
      - MAS 3105 Linear and Matrix Algebra ( line course)
      - MAS 3106 Linear Algebra
   b. Select two courses and associated labs (including 4 hrs GEP)
      - STA 2023 Statistical Methods I
      - STA 3421 Statistical Theory I
      - STA 4424 Prac Calculus Act Science
      - STA 4183 Theory of Interest
      - STA 4130 Life Contingencies I
      - STA 4131 Life Contingencies II
      - COT 4000 Numerical Calculus
      - ENC 3241 Writing for Technical Professionals
      - BUS 2010C Business Math ( line course)
   c. Select three from among the following:
      - STA 4692 Applied Time Series
      - STA 4641 Risk Theory & Decision
      - STA 4163 Statistical Methods II
      - STA 4164 Statistical Methods III
      - STA 4676 Life Testing Analysis
      - STA 4675 Demographic Statistics
      - STA 4187 Theory of Graduation
      - STA 4539 Problems in Actuarial Science
      - STA 5139 Credibility Theory and Loss Distributions
      - STA 5646 Casualty Insurance

4. **Restricted Upper Division Electives** (15 hrs)

   - Select from upper division or graduate statistics, actuarial science, or mathematics courses.
   - Nine of the hours must be 4000 level or above.
   - Selected courses in business may be used but must first be

---

**Total Semester Hours Required** 120 hours

**Related Programs:** Mathematics, Mathematics Education, Statistics

**Related Minors:** Statistics, Mathematics

**Transfer Notes:**

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

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

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

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be repeated by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Summer**

- Math test See catalog

**Freshman Year**

- Fall: ECO 2013 Princ of Macroeconomics (line course)
- Spring: STA 2023 Statistical Methods I

**Sophomore Year**

- Fall: STA 3421 Statistical Theory I
- Spring: MAC 2311 Calculus with Analy Geo I

**Junior Year**

- Fall: STA 4130 Life Contingencies I
- Spring: STA 4131 Life Contingencies II

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**UCF Degree Programs**

approved by the Statistics Department

MAC 2233, 2253, 2254; all MAE courses; and MHF 4404 may not be used

5. **Departmental Exit Requirements**

- Earn a grade of “C” (2.0) or better in each STA course.
- Computer competency met by COP 3502C.

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

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

   Graduation: none

7. **Electives** (variable)

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

8. **University Minimum Exit Requirements**

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

**Related Programs:**

- Mathematics, Mathematics Education, Statistics
- Statistics, Mathematics

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

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

**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

**Freshman Year**

- Fall: ECO 2013 Princ of Macroeconomics (line course)
- Spring: STA 2023 Statistical Methods I

**Sophomore Year**

- Fall: STA 3421 Statistical Theory I
- Spring: MAC 2311 Calculus with Analy Geo I

**Junior Year**

- Fall: STA 4130 Life Contingencies I
- Spring: STA 4131 Life Contingencies II
ADVERTISING/PUBLIC RELATIONS (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 250
407-823-2829
http://www.cas.ucf.edu/communication
E-mail: ad-pr@ucf.edu
Bob Davis
Limited Access program.

Admission Requirements
- Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission. Deadlines are: October 1, 2005 for Spring 2006, Feb 1, 2006 for Summer 2006, July 1, 2006 for Fall 2006.
- 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 the previous acceptance periods, the minimum GPA did not drop below 3.3.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op credit can be used in the major.
- Students should consult with a departmental advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the Nicholson School of Communication.
- Students enrolling in both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation.
- Students enrolled in the major may not take more than 40 total credit hours from the Nicholson School of Communication.
- Students enrolled in the major must take at least 65 hours in the liberal arts and at least 80 hours outside the Nicholson School of Communication.
- A maximum of six credit hours of internship may be earned in one semester. A total of nine credit hours of internship may be earned within the 120 credit hours required for graduation.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      - Select ENC 1101 & 1102 Composition 6 hrs
      - Select SPC 1600 Fund Oral Communication 3 hrs
   B. Cultural and Historical Foundations
      - Select MGF 1106 Finite Math (may substitute a higher level math) 3 hrs
      - Select CGS 1060C Intro to Computer Sci or STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel 3 hrs
   C. Mathematical Foundations
      - Select MGF 1106 Finite Math (may substitute a higher level math) 3 hrs
      - Select CGS 1060C Intro to Computer Sci or STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations
      - Select SPC 1600 Fund Oral Communication 3 hrs
   E. Science Foundations
      - Select ENC 1101 & 1102 Composition 3 hrs

2. Common Program Prerequisites
   - STA 1060C* req# 1C2-GEP 3
   - STA 1120* req# Lang/Elect 3
   - STA 1121* req# Lang/Elect 3
   - STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel 3
   - STA 2101C* req# 3b-Core 3
   - STA 2111* req# 3a-Core 3
   - STA 4101* req# 4-ResElect 3
   - STA 4102* req# 4-ResElect 3
   - STA 4103* req# 4-ResElect 3
   - STA 4164* req# 4-ResElect 3
   - STA 4165* req# 4-ResElect 3
   - STA 4166* req# 4-ResElect 3
   - STA 4222* req# 4-ResElect 3
   - STA 4641* req# 3c-Core 3

3. Core requirements (30 hrs)
   - ADV 3000 Principles of Advertising 3 hrs
   - ADV 4010 Advertising Copywriting 3 hrs
   - ADV 4011 Radio-TV Advertising 3 hrs
   - COM 3110 Business and Prof Communication 3 hrs
   - MMC 2425 Ad/PR Campaigns 3 hrs
   - MMC 3420 Mass Media Research Methods 3 hrs
   - MMC 4200 Mass Communication Law 3 hrs
   - PUR 3100 Writing for Public Relations 3 hrs
   - PUR 4000 Public Relations 3 hrs
   - PUR 4801 Public Relations Case Studies 3 hrs

Students who complete a 3-hour internship may take either PUR 4801 or ADV 4103.
   - PUR 4941 Internship 3 hrs
   - ADV 4941 Internship 3 hrs

4. School Exit Requirements
   - To avoiding delaying the graduation, the student must receive a review of requirements before registering for the last term.
   - Achieve an overall "C" GPA (2.0) in required UCF Ad/PR courses. This GPA does not include electives.
   - Computer Competency met by CGS 1060C or STA 1060C.

5. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

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

Total Semester Hours Required 120 hours

Related Programs: Marketing
Related Minors: Business, Marketing, Psychology

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

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 hrs
   - Fall: MGF 1106* req# 1C1-GEP 3 hrs
   - Fall: SPA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 2101C* req# 3b-Core 3 hrs
   - Fall: STA 1060C* req# 1C2-GEP 3 hrs
   - Fall: STA 1060C* req# 1C2-GEP 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel 3 hrs
   - Spring: ENC 1101 Composition I 3 hrs
   - Spring: MGF 1106* req# 1C1-GEP 3 hrs
   - Spring: SPA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 2101C* req# 3b-Core 3 hrs
   - Spring: STA 1060C* req# 1C2-GEP 3 hrs
   - Spring: STA 1060C* req# 1C2-GEP 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs

Sophomore Year
   - Fall: ENC 1101 Composition I 3 hrs
   - Fall: MGF 1106* req# 1C1-GEP 3 hrs
   - Fall: SPA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 2101C* req# 3b-Core 3 hrs
   - Fall: STA 1060C* req# 1C2-GEP 3 hrs
   - Fall: STA 1060C* req# 1C2-GEP 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Spring: ENC 1101 Composition I 3 hrs
   - Spring: MGF 1106* req# 1C1-GEP 3 hrs
   - Spring: SPA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 2101C* req# 3b-Core 3 hrs
   - Spring: STA 1060C* req# 1C2-GEP 3 hrs
   - Spring: STA 1060C* req# 1C2-GEP 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs

Junior Year
   - Fall: ENC 1101 Composition I 3 hrs
   - Fall: MGF 1106* req# 1C1-GEP 3 hrs
   - Fall: SPA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 2101C* req# 3b-Core 3 hrs
   - Fall: STA 1060C* req# 1C2-GEP 3 hrs
   - Fall: STA 1060C* req# 1C2-GEP 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Fall: STA 1121* req# Lang/Elect 3 hrs
   - Spring: ENC 1101 Composition I 3 hrs
   - Spring: MGF 1106* req# 1C1-GEP 3 hrs
   - Spring: SPA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 2101C* req# 3b-Core 3 hrs
   - Spring: STA 1060C* req# 1C2-GEP 3 hrs
   - Spring: STA 1060C* req# 1C2-GEP 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs
   - Spring: STA 1121* req# Lang/Elect 3 hrs
ADV 3000 Principles of Ad 3  COM 3110 Bus Prof Com 3
PUR 4000 Public Relations 3  MMC 3420 Mass Res Meth 3
Restricted* req# Res Elect 3  MMC 4200 Mass Com Law
Restricted* req# Res Elect 3  Restricted* req# Res Elect
Restricted* req# Res Elect 3  Restricted* req# Res Elect

Senior Year
Fall
ADV 4101 Ad Copywriting 3  MMC 4254 AdPr campaigns 3
ADV 4103 Radio TV Ad 3  PUR 4801 Pub Retln Case St 3
PUR 3100 Wr for Pub Retln 4  Restricted* req# Res Elect
Restricted* req# Res Elect 4  Restricted* req# Res Elect

SPRING
ADV 4105 Ad Management 3  Restricted* req# Res Elect

AEROSPACE ENGINEERING (B.S.A.E.)
College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering Department,
ENGR 307, 407-823-2416; Fax 407-823-0208
http://www.mmae.ucf.edu
R. H. Chen, Associate Chair, ENGR 307; E-mail: chenrh@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before regist-
tering for their first semester at UCF. Orientation includes engineer-
ing academic advisement and registration for first-semester UCF
students.

1. UCF General Education Program for (38 hrs)
Engineering Students

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

A. Communication Foundations
1. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1116

B. Cultural and Historical Foundations
1. Take MAC 2311, Calculus with Analytic Geometry I (4hrs)

Note: College algebra and trigonometry are prerequisites for Calculus I. See the course
descriptions.
2. Take STA 2023 (3 hrs).

Note: Calculus II is the prerequisite for this course.

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

E. Science Foundations
1. Take PHY 2048/48L

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

These courses are specifically required for all engineering students
of the Florida State University System. CPP courses are also available
at other Florida post-secondary schools and may be transferred
directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also
satisfy UCF GEP sub-requirements as do ENC 1101, ENC 1102, the
Humanities courses, and the Social Science courses:

CHS 1440 Fundamentals of Chemistry for Eng 4 hrs
MAC 2311 Calculus with Analytic Geometry I 4 hrs
MAC 2312 Calculus with Analytic Geometry II 4 hrs
MAC 2313 Calculus with Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I 4 hrs
ENC 1102 Composition II 4 hrs

Humanities Courses
GEP

Social Science Courses
GEP

3. Courses Required for the Major (61 hrs)
The College of Engineering and Computer Science requires all engi-
neering 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 require-
ments and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3343 Thermodynamics 3 hrs
EMA 3706 Structure & Properties of Aerospace Materials 3 hrs
EGN 3573 Principles of Electrical Engineering 3 hrs
STA 3012 Probability & Statistics for Engineers 3 hrs
EAS 3010 Fundamentals of Aerospace Flight 1 hr
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 3530 Space Systems Concepts or
EAS 4400 Spacecraft Attitude Dynamics or
EAS 4505 Orbital Mechanics 3 hrs
EAS 4300 Aerothermodynamics-Propulsion Sys 3 hrs
EML 3034 Modeling Methods in MMAE 3 hrs
EML 4312C Feedback Control 3 hrs
EGM 3601 Solid Mechanics 3 hrs
EML 3701 Fluid Mechanics I 3 hrs
EAS 3494C Discrete Control Aerospace Vehicles 3 hrs
EML 4535C Introduction to CAD/CAM 3 hrs

4. Approved Technical Electives (4 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 cours-
es of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

EGN 4412C Interdisciplinary Design I or
EAS 4700C Aerospace Design I 3 hrs
EAS 4413C Interdisciplinary Design II or
EAS 4710C Aerospace Design II 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 profi-
cency 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 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-
tible).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.
Related Minors: Space Studies.

Transfer Notes:

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

Courses transferred must be formally evaluated for equivalency
credit. The student must provide all supporting information with
his/her petition for this evaluation.

EGN 1006C and EGN 1007C are required courses for incoming
freshman students only. The two credit hours for these courses
may be substituted by an approved Aerospace Engineering tech-
nical elective for transfer students.
## Aerospace Engineering

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses Required</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
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<tr>
<td><strong>Fall</strong></td>
<td>(14 cred hrs, 18 cont hrs)</td>
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<tr>
<td>ENC 1101 English Comp I</td>
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<tr>
<td>*CHS 1440 Chem for Eng or CHM 2045C w/lab</td>
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<tr>
<td>MAC 2311 Calculus I</td>
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<tr>
<td>EGN 1006 Intro to Eng Prof</td>
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<td>EGN 1111C Eng Comp Graphics</td>
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<tr>
<td><strong>SUMMER</strong></td>
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<tr>
<td>MAC 2313 Calculus III</td>
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<tr>
<td>EMA 3706 Strut &amp; Prop of Aerospace Mat</td>
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<tr>
<td>*Social Foundations</td>
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<td><strong>SECOND YEAR</strong></td>
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<td><strong>Fall</strong></td>
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<td>*Humanities/History1</td>
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<td>*MAP 2302 Diff Equations</td>
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<td>*PHY 2049 Phys Eng II w/lab</td>
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<td>EGN 3310 Eng Anal - Statics</td>
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<td>EAS 3010 Fund of Aerosp Flight</td>
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<td><strong>SUMMER</strong></td>
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<td>*ECO 2013 or 2023 Macro or Micro</td>
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<td>*Humanities/History1</td>
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<tr>
<td>STA 3052 Prob &amp; Stats/Engrs</td>
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<td><strong>THIRD YEAR</strong></td>
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<td><strong>Fall</strong></td>
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<td>EML 3324 Model Meth's MMAE</td>
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<td>EML 3701 Fluid Mechanics I</td>
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<td>EAS 3800C Aerosp Eng Msr</td>
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<td>EML 4312C Feedback Control</td>
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<td>EAS 4200 Flight Structures</td>
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<tr>
<td><strong>SUMMER</strong></td>
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<td>EAS 3310 Fund of Aerosp Flight</td>
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<td>EGN 3373 Prin Elec Eng</td>
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<td>EGN 3321 Engr Anal-Dynmcs</td>
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<td>EGN 3343 Thermodynamics</td>
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<td>EGM 3601 Solid Mechanics</td>
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<td><strong>FOURTH YEAR</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td>(12 cred hrs, 18 cont hrs)</td>
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<tr>
<td>EML 4312C Interdisciplinary Design</td>
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<td>EGA 4105 Flight Mechanics</td>
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<tr>
<td>EAS 4710C Aerosp Design II</td>
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<td>or EAS 4700C Aerosp Design I</td>
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<tr>
<td>EGN 4412C Interdisciplinary Design</td>
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**Notes:**
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult with the College of Engineering faculty advisor for any suggested delay in the date of your graduation.
3. 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.

**IMPORTANT NOTICE**
- **Bolded** course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.
- These courses are given only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.
- Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- 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.

## Integrated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated BS/MS program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

## ANIMATION TRACK in ART

**See Art - Animation Track**

## ANTHROPOLOGY (B.A.)

**College of Arts and Sciences**

**Degree of the Bachelor of Arts in Anthropology**

**Department of Sociology and Anthropology, PH 403, 407-823-2227, http://www.cas.ucf.edu/soc_anthro/firstpage.html**

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

J. Corzine, 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology.

Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

**Admission Requirements:**

**None**

**Degree Requirements:**

- **UCF** students who change degree programs and select this major must adopt the most current catalog.
- **Departmental Residency Requirement:** at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology and Anthropology Department.
- **Students must maintain a grade of “C” (2.0) or better in all courses used for the major.**
- **Co-op or internship credit cannot be used in the major.**
- **Students should consult with a departmental advisor.**
- **Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.**

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations (9 hrs)
  - English Composition
- B. Cultural and Historical Foundations (9 hrs)
  - American History
- C. Mathematical Foundations (3 hrs)
  - Select one; MTH 2232 or MTH 3235
- D. Social Foundations (3 hrs)
  - Select one; ECO 2013, ECO 2023, POS 2041
- E. Science Foundations (3 hrs)
  - Select one; PSC 1121, PHY 2053
- F. Humanities/History (9 hrs)
  - Select one; HUM 2000, ENG 2000, HUM 3000
- G. Interdisciplinary Electives (3 hrs)

### 2. Common Program Prerequisites (0 hrs)

- A. ANT 2000* General Anthropology (3 hrs)
- B. ANT 2511 The Human Species (3 hrs)

### 3. Core Requirements: Lower Level (6 hrs)

- ANT 2511 The Human Species (3 hrs)
- ANT 2000* General Anthropology (3 hrs)

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**ANTHROPOLOGY (B.A.)**

**College of Arts and Sciences**

**Department of Sociology and Anthropology, PH 403, 407-823-2227, http://www.cas.ucf.edu/soc_anthro/firstpage.html**

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

J. Corzine, 407-823-2227

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Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

**Admission Requirements:**

**None**

**Degree Requirements:**

- **UCF** students who change degree programs and select this major must adopt the most current catalog.
- **Departmental Residency Requirement:** at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology and Anthropology Department.
- **Students must maintain a grade of “C” (2.0) or better in all courses used for the major.**
- **Co-op or internship credit cannot be used in the major.**
- **Students should consult with a departmental advisor.**
- **Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.**

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations (9 hrs)
  - English Composition
- B. Cultural and Historical Foundations (9 hrs)
  - American History
- C. Mathematical Foundations (3 hrs)
  - Select one; MTH 2232 or MTH 3235
- D. Social Foundations (3 hrs)
  - Select one; ECO 2013, ECO 2023, POS 2041
- E. Science Foundations (3 hrs)
  - Select one; PSC 1121, PHY 2053
- F. Humanities/History (9 hrs)
  - Select one; HUM 2000, ENG 2000, HUM 3000
- G. Interdisciplinary Electives (3 hrs)

### 2. Common Program Prerequisites (0 hrs)

- A. ANT 2000* General Anthropology (3 hrs)
- B. ANT 2511 The Human Species (3 hrs)

### 3. Core Requirements: Lower Level (6 hrs)

- ANT 2511 The Human Species (3 hrs)
- ANT 2000* General Anthropology (3 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 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 3319  The Anthropology of Diaspora
ANT 3332  Peoples and Culture of Latin America
ANT 3340  Caribbean Cultures
ANT 3363  Anthropology of Japan
ANT 4308  Gender issues in Latin America
ANG 6324  Contemporary Maya

6. Restricted Electives (18 hrs)
Six other Anthropology courses must be taken to complete the major. These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).

ANT 3115  Archaeological Method and Theory
ANT 3142  Old World Prehistory
ANT 3158  Florida Archaeology
ANT 3184  Archaeology of Complex Societies
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 3541  Biobehavioral Anthropology
ANT 3550  Primatology
ANT 3701  Applied Anthropology
ANT 4153  North American Archaeology
ANT 4189C  Seminar in Laboratory Analysis
ANT 4462  Medical Anthropology
ANT 4521C  Forensic Anthropology
ANT 4525C  Human Osteology
ANT 4524  Advanced Archaeological Field Work
ANG 5166  Problems of Maya Archaeology
ANG 5167  Maya Hieroglyphs
ANG 5228  Maya Iconography

7. Departmental Exit Requirements
- A grade of “C” (2.0) or better in all courses used for the major
- Computer Competency met by ANT 2100
- Students will be required to take a standard exit exam.

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: 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 residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Sociology, Graduate Certificate in Maya Studies
Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Judaic Studies, Latin American and Iberian Studies, Russian Area Studies, Sociology, and Women’s Studies

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- ANT 2000: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANT 2511: any ANT course. However, ANT 2511 will need to be taken for the major.

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  ANT 2000 General Anthro  3  ANT 2511 The Human Species  3
ENC 1101 Composition I  3  ARH 2050* req# 1B1-GEP
COM 1000* req# 1A3-GEP  3  STA 2023 Stat Methods I  3
Spring  REL 2300* req# 1B3-GEP  3  PSC 1121* req# 1E1-GEP
ANT 2100 Arch the of  3  ANT 3640 Language and Cult  3
ANT 3142* req# 5-Area  3  ANT 4034 His of Anthro Th
ANT 3145 Arch of Cmplx Soc  3  ANT 4586 Human Origins  3
SPN 1120* req# 1A3-GEP  3  SPN 1121* req# 1E1-GEP
ANG 5166 Problems of Maya Archaeology  3  SPN 1122* req# 1E1-GEP
ANG 5167 Maya Hieroglyphs  3  SPN 1123* req# 1E1-GEP
ANG 5228 Maya Iconography  3  SPN 1124* req# 1E1-GEP

Sophomore Year
Fall  ANT 3145 Arch of Cmplx Soc  3  ANT 4586 Human Origins  3
ANT 3142* req# 6-ResElect  3  ANT 3164* req# 5-Area  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3

Junior Year
Fall  ANT 3145 Arch of Cmplx Soc  3  ANT 4586 Human Origins  3
ANT 3142* req# 6-ResElect  3  ANT 3164* req# 5-Area  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3
SPN 1120* req# Lang/Elect  4  SPN 1121* req# Lang/Elect
SPN 1122* req# Lang/Elect  4  SPN 1123* req# Lang/Elect
SPN 1124* req# Lang/Elect  4  SPN 1125* req# Lang/Elect

Senior Year
Fall  ANT 3302* req# 6-ResElect  3  ANT 3312* req# 6-ResElect  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3

ART (B.F.A.)
College of Arts and Sciences
E-mail: art@ucf.edu
J. Chavda, 823-2676
The BFA degree is recommended for studio art majors who plan to attend graduate school.
Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the
minimum hardware and software specifications.

 Admission Requirements

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

 Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- Grades below "C+" (2.25) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor in their specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

 1. UCF General Education Program

- A. Communication Foundations
  - 9 hrs
- B. Cultural and Historical Foundations
  - Select a course from group B.1
  - Select ARH 2050 History of Western Art I
  - Select ARH 2051 History of Western Art II
- C. Mathematical Foundations
  - Select 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

- ART 2201C Design Fundamentals 2-D
- ART 2203C* Design Fundamentals 3-D
- ART 2300C* Drawing Fundamentals I
- ART 2301C* Drawing Fundamentals II
- ARH 2050 History of Western Art I
- ARH 2051 History of Western Art II
- GRA 2101C* Intro to Computer Art
- ART 2XX-4XX any ART prefix, studio, or media course
  - *Transfer Notes for possible substitutes:
  - 3 hrs

 3. Core Requirements

- ART 2820 Art as Interface
- ARH 2500 Survey of Non-Western Art
- ART 2XX-4XX any ART prefix, studio, or media course
- ART 3950 Portfolio Review
  - 0 hrs

 4. Restricted Electives

- a. Specialization:
  - 18 hrs
  - Select six upper division courses from one area: (classes with an asterisk may be repeated for credit)
    - Ceramics (ART 2754C, ART 3760C, ART 3764C, ART 4783C*)
    - Animation (ART 3616C, ART 4225C, ART 4971*, FIL 3286C, FIL 3287C*, FIL 4288C*, FIL 4289C*)
    - Drawing (ART 3332C, ART 4320C*)
    - Drawing/Printmaking Combination (ART 3332C, ART 4320C*, ART 4402C*)
    - Drawing/Illustration Combination (ART 3332C, GRA 3151C, ART 4320C*, GRA 4154C*)
  - Graphic Design (GRA 3100C, GRA 3112C, GRA 2140C, GRA 4196C)
  - Painting (ART 3504C, ART 4505C*)
  - Photography (PGY 2401C, PGY 4420C*, PGY 4440C)
  - Sculpture (ART 2701C, 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, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

- c. Additional Electives
  - 9 hrs
  - ARH 3XXX-4XXX Art History Courses or
  - Any upper level Humanities or Social Science course(s)
  - Animation specialization requires FIL3410 and any 6 credits of upper level art courses
  - (A maximum of six hours of Independent Study, Practicum, and Internship are permitted.)

- 5. Departmental Exit Requirements

- ART 4935 BFA Exhibit/Seminar
  - (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

- 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

- Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

- 8. University Minimum Exit Requirements

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

- Total Semester Hours Required

- 120 hours

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

- Transfer Notes:

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

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

- ART 2203C*: A student may substitute ART 2202C.
- GRA 2101C*: A student may substitute any three hour media 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

110 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
ART - ANIMATION TRACK (B.F.A.)

College of Arts and Sciences

Animation, VAB 210, 407-823-3110,
http://www.art.ucf.edu/ then select “Programs”

E-mail: animation@ucf.edu

L. Kilmer

Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

Admission Requirements
- Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA.
- Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.
- Students must maintain an overall minimum 3.0 GPA in the above courses.
- Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.

Note: Unfortunately, individual reviews are not possible due to the large number of applicants to this program.
- Animation requires submission of a portfolio. Submission deadline for Fall term is March 15.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below “C” (2.0) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in the major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken within the UCF Art and Film programs.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
- A. Communication Foundations: 9 hrs
- B. Cultural and Historical Foundations: Select a course from group B.1: 3 hrs
- Select ARH 2050 History of Western Art I: 3 hrs
- Select ARH 2051 History of Western Art II: 3 hrs
- C. Mathematical Foundations: Select MGF 1106 Finite Mathematics (may substitute a higher level math): 3 hrs
- Select CGS 1060C Intro to Computer Sci: 3 hrs
- D. Social Foundations: 6 hrs
- E. Science Foundations: 6 hrs

2. Common Program Prerequisites (18 hrs)
- ART 2201C Design Fundamentals 2-D: 3 hrs
- ART 2203C Design Fundamentals 3-D: 3 hrs
- ART 2300C Drawing Fundamentals I: 3 hrs
- ART 2301C Drawing Fundamentals II: 3 hrs
- ARH 2050 The History of Western Art I: GEP: 3 hrs
- ARH 2051 The History of Western Art II: GEP: 3 hrs
- GRA 2101C Intro to Computer Art: 3 hrs
- ART 2XXX-4XXX any ART prefix, studio, media courses: 3 hrs

3. Core Requirements (12 hrs)
- ART 2820 Art as Interface: 3 hrs
- ARH 2500 Survey of Non-Western Art: 3 hrs
- Any two upper level Art or Film History course: 3 hrs

4. Animation Upper Division Courses (18 hrs)
- ART 3643C Digital Effects and Compositing: 3 hrs
- FIL 3286C Introduction to Animation: 3 hrs
- FIL 3287C Intermediate Animation: 3 hrs
- FIL 3410 History of Animated Films: 3 hrs
- FIL 4286C Advanced Animation: 3 hrs
- FIL 4286C* Animation Workshop: 3 hrs

5. Elective in Art (15 hrs)
- Select five courses; two of which be lower division
- Select from at least three of the following areas, excluding the area of specialization:
  - Ceramics, Drawing, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

6. Departmental Exit Requirements
- ART 4971 Thesis: 3 hrs
- Achieve at least a “B” GPA (3.00) in courses within the major.
- Computer Competency met by CGS 1060C or GRA 2101C

7. Foreign Language Requirements (0-8 hrs)
- Admission: Met by graduation requirement
- Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

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

Total Semester Hours Required: 120 hours

Related Programs: Art, Art Education, Art History, Film
ART 2203C*: A student may substitute ART 2202C prior to transferring to UCF.

GRA 2101C: Intro to Comp Art 3 ART 3950 Portfolio Review 0
ART 2300C: Drawing Fund I 3 ART 2394 req# 2-CPP 3
ART 2203C: Design Fund 3 D 3 ART 2301C: Drawing Fund II 3
POS 2041* req# 1-D 1-GEP 3 CHM 1020* req# 1-E 1-GEP 3
COM 1000* req# 1-A 3-GEP 3 BSC 1005* req# 1-E 2-GEP 3

Fall Spring
Sophomore Year
ART 2820 Art as Interface 3 Elective* Check restrictions 3
MGF 1106* req# 1-C 1-GEP 3 ART 2201C: Design Fundamentals 2-D 3
HUM 2211* req# 1-B 1-GEP 3 ENC 1102 Composition II 3
ENC 1101 Composition I 3 CGS 1060C: Intro to Comp Sci 3
ARH 2050: History of Western Art I GEP
ARH 2051: History of Western Art II GEP
XXX 1120, 1121: Foreign Language or Proficiency 0-8 hrs

Fall Spring
Junior Year
ART 3161* req# 3-Core 3 FIL 3286C: Intro to Animation 3
GRA 3151C* req# 3-Core 3 ARH 2050 History of Western Art I GEP
ART 3643C: Dig Effects Compst 3 ARH 2051 History of Western Art II GEP
PGY 2410C* req# 5-ResEl 3 ENC 3311 Advanced Expository Writing 3
SPN 1120* req# Lang/Elect 4
.Application See catalog 0

Fall Spring
Senior Year
ART 2500 History of West Art 3 PGY 4420C* req# 5-ResEl 3
FIL 4290C: Advanced Animation 3 Elective* Check restrictions 3
ART 4971 Senior Thesis 3 Elective* Check restrictions 3

ART - HISTORY TRACK (B.A.)
College of Arts and Sciences

Admission Requirements: none

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. 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.

8. University Minimum Exit Requirements
A. A 2.0 UCF GPA
B. 60 semester hours earned after CLEP awarded
C. 48 semester hours of upper division credit completed
D. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

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

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
- Fall
  - ARH 2050 His of West Art I 3 hrs
  - ENC 1101 Composition I 3 hrs
  - HUM 2211* req# 1B1-GEP 3 hrs
- Spring
  - ARH 2051 His of West Art II 3 hrs
  - ENC 1102 Composition II 3 hrs
  - STA 1060C Stat Using Excel 3 hrs

Sophomore Year
- Fall
  - COM 1040* req# 1A3-GEP 3 hrs
  - POS 2041* req# 1D1-GEP 3 hrs
  - ART 2201C Design Fund 2-D 3 hrs
  - ART 2300C Drawing Fund I 3 hrs
  - ENC 3511 Adv Exp Writing 3 hrs
- Spring
  - ARH 2050 The History of Western Art I GEP 3 hrs
  - ARH 2051 The History of Western Art II 3 hrs
  - GRA 2101C* Intro to Computer Art 3 hrs

Junior Year
- Fall
  - ARH 4310 Italian Renais Art 3 hrs
  - ARH 4450 20th Century Art 3 hrs
  - ARH 3710* req# 4c-ResEl 3 hrs
  - ARH 4652* req# 4c-ResEl 3 hrs
  - SPN 1112* req# Lang/Elect 4 hrs
- Spring
  - ARH 4310 Italian Renais Art 3 hrs
  - ARH 4450 20th Century Art 3 hrs
  - ARH 3710* req# 4c-ResEl 3 hrs
  - ARH 4652* req# 4c-ResEl 3 hrs
  - SPN 1112* req# Lang/Elect 4 hrs

Senior Year
- Fall
  - ARH 4350* req# 4b-ResEl 3 hrs
  - ARH 4912 Senior Thesis 3 hrs
  - Elective* Check restrictions 3 hrs
  - Elective* Check restrictions 3 hrs
- Spring
  - ARH 4350* req# 4b-ResEl 3 hrs
  - ARH 4912 Senior Thesis 3 hrs
  - Elective* Check restrictions 3 hrs
  - Elective* Check restrictions 3 hrs

ART - STUDIO TRACK (B.A.)

College of Arts and Sciences
Art Department VAB 117, 407-823-2676
http://www.art.ucf.edu/
E-mail: art@ucf.edu

J. Chavda, 407-823-2676

Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

Continuation Requirements:
- All junior level students in this program must satisfactorily complete the mandatory portfolio review before enrolling in upper division courses. The Spring review takes place the first week of March. The Fall review takes place the first week of October. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department in the Art History track.
- A second portfolio is required for the Graphic Design Specialization. Deadline for application is the first week of March prior to beginning the Fall of the Junior year.

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below “C+” (2.25) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in the major.
- Students should consult with a departmental advisor in their specialization.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
  - Select a course from group B.1 3 hrs
  - Select ARH 2050 The History of Western Art I 3 hrs
  - Select a course from either group B.1 or B.2 3 hrs
- C. Mathematical Foundations
  - Select MGF 1101 Finite Mathematics (may substitute a higher level math) 3 hrs
  - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (21 hrs)
- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2203C Design Fundamentals 3-D 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ART 2301C Drawing Fundamentals II 3 hrs
- ARH 2050 The History of Western Art I GEP 3 hrs
- ARH 2051 The History of Western Art II 3 hrs
- GRA 2101C* Intro to Computer Art 3 hrs

3. Core (6 hrs)
- ART 2820 Art As Interface 3 hrs
- ARH 2500 History of Non-Western Art 3 hrs

4. Restricted Electives (27 hrs)

Specialization:
Select nine upper division courses from at least three areas:
(classes with an asterisk may be repeated for credit)

Art History (any upper level ARH courses)
- Ceramics (ART 3760C, ART 4783C*)
- Drawing and Printmaking (ART 332C, ART 4320C*, ART 4402C*)
- Illustration (GRA 3151C, GRA 4154C*)
- Painting (ART 3504C, ART 4505C*)
- Photography (PGY 2401C, PGY 4420C*, PGY 4440C)
- Sculpture (ART 2701C, ART 4710C*)
- Type & Design (GRA 3113C)

*May be repeated for credit

5. Departmental Exit Requirement
- Achieve at least a “C” GPA (2.0) in courses within the major.
- Computer Competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)
- Admissions: 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.

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
ART EDUCATION (B.S.)

College of Education
Department of Teaching and Learning Principles

ED 209
http://pegasus.cc.ucf.edu/~arted

Program Coordinator: Thomas Brewer
ED 206-J, 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 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program (36 hrs)

A. Communications
- ENC 1101 Composition I (3 hrs)
- ENC 1102 Composition II (3 hrs)
- SPC 1600 Fundamentals of Oral Communication (3 hrs)

B. Cultural-Historical Foundations
- AMH 1010 U.S. History 1492-1877 (3 hrs)
- AMH 2020 U.S. History 1877-Present (3 hrs)
- PHI 2010 Introduction to Philosophy (3 hrs)

C. Mathematical Foundations
- MGF 1106 Finite Mathematics (3 hrs)
- Select one:
  - STA 1060C Basic Statistics using MS Excel or
  - STA 2014C Principles of Statistics (6 hrs)

D. Social Foundations
- POS 2041 American National Government (3 hrs)
- PSY 2012 General Psychology (3 hrs)

E. Science Foundations
- PSC 1121 Physical Science (3 hrs)
- Select one:
  - ANT 2511 The Human Species or
  - BSC 1005 Biological Principles (3 hrs)

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (43 hrs)

A. Communications
- ENC 1101 Composition I (3 hrs)
- ENC 1102 Composition II (3 hrs)
- SPC 1600 Fundamentals of Oral Communication (3 hrs)

B. Humanities
- PHI 2010 Introduction to Philosophy (3 hrs)
- ARH 2050 History of Western Art I (3 hrs)

C. Mathematics
- MGF 1106 Finite Mathematics (3 hrs)
- Select one of the following (per GEP)
  - STA 1060C Basic Statistics using MS Excel or
  - STA 2014C Principles of Statistics (6 hrs)

D. Social Science/History
- AMH 1010 U.S. History 1492-1877 (3 hrs)
- AMH 2020 U.S. History 1877-Present (3 hrs)
- POS 2041 American National Government (3 hrs)

E. Science
- Select one of the following (per GEP)
  - PSC 1121 Physical Science (3 hrs)

Note: See laboratory component under Section 2.

3. Education Core Requirements (15 hrs)

A. Professional Core
- EDG 2701 Teaching Diverse Populations (3 hrs)
- RED 4043 Professional Teaching Practices (3 hrs)

B. Curriculum Core
- TSL 4080 Theory and Practice of Teaching ESOL (3 hrs)
- RED 4043 Content Reading K-12 (3 hrs)

4. Internship I (ESE 3940) (3 hrs)
Program Internship I Prerequisites: EDG 4323 and at least 50% of all required art courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.

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

5. Core Requirements (9 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARE 4356</td>
<td>Teaching Art Appreciation &amp;Criticism</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ARE 4351</td>
<td>Teaching Art in the Elementary School</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ARE 4352</td>
<td>Teaching Art in the Secondary School</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

6. Restricted Electives (9 hrs)

Any 3000 or 4000 level ART, ARE, ARH, PGY (with advisor’s approval)

7. Internship II (ESE 4943) (12 hrs)

All art courses and all methods courses must be completed before registering for Internship II

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

Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

8. Foreign Language Requirements (0-8 hrs)

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

9. Departmental Exit Requirements

Achieve a minimum 2.5 GPA in all courses within the major.

Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

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

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

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

11. Total Program Semester Hours Required 127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 126 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
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<tbody>
<tr>
<td>EDF 2005</td>
<td>3</td>
<td>ARH 2051</td>
<td>3</td>
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<tr>
<td>ENC 1101</td>
<td>3</td>
<td>MGF 2001</td>
<td>3</td>
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<tr>
<td>ARH 2050</td>
<td>3</td>
<td>MAC 1105</td>
<td>3</td>
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<tr>
<td>PSY 2012</td>
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<tr>
<td>Summer</td>
<td>(6 hrs)</td>
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</tr>
<tr>
<td>EME 2040</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>SPC 1600</td>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
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<th>Spring</th>
<th>(16 hrs)</th>
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<tr>
<td>AMH 2010</td>
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<td>AMH 2020</td>
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<tr>
<td>ART 2201C</td>
<td>3</td>
<td>ART 2203C</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>3</td>
<td>ART 2300C</td>
<td>3</td>
</tr>
<tr>
<td>PH 2010</td>
<td>3</td>
<td>POS 2041</td>
<td>3</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3</td>
<td>PSC 1121</td>
<td>3</td>
</tr>
<tr>
<td>PSC 1121L</td>
<td>1</td>
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</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Fall</th>
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<th>Spring</th>
<th>(15 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARE 4356</td>
<td>3</td>
<td>ARE 4352</td>
<td>3</td>
</tr>
<tr>
<td>ART 2300C</td>
<td>3</td>
<td>ART 2500C</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4214</td>
<td>3</td>
<td>RED 4043</td>
<td>3</td>
</tr>
<tr>
<td>EDG 4323</td>
<td>3</td>
<td>Restricted elective</td>
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<tr>
<td>TSL 4080</td>
<td>3</td>
<td>(ARE/ARH/ART/PGY 3/4XXX)</td>
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</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>ARE 4351</td>
<td>3</td>
<td>ESE 4943</td>
<td>12 hrs</td>
</tr>
<tr>
<td>ESE 3940</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restricted elective</td>
<td></td>
<td>(ARE/ARH/ART/PGY 3/4XXX)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Summer**

<table>
<thead>
<tr>
<th>(3 hrs)</th>
<th>(3 hrs)</th>
</tr>
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<tbody>
<tr>
<td>GRA 2101C</td>
<td>AST 2002</td>
</tr>
</tbody>
</table>

**BIOLOGY (B.S.)**

College of Arts and Sciences

Biology Department, BL 301, 407-823-2141

http://pegasus.cc.ucf.edu/~biology/

E-mail: biology@ucf.edu

F. Loguidice, 407-823-2141

Admission Requirements none

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

No credit by exam (TSD, Military credit) may be used for the major.

Co-op or internship credit cannot be used in this major.

No more than 4 hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.

Departmental Residency Requirement consists of at least 22 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.

Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization of the two majors.

Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program (39 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations

Select ENC 1101, ENC 1102

Select SPC 1016 Tech Presentations

B. Cultural and Historical Foundations

C. Mathematical Foundations

Select MAC 2311 Calculus w/ Anal Geometry I

Select STA 2023 Statistical Methods I

D. Social Foundations

E. Science Foundations

Select CHM 2045C Chem Fund I

Select BSC 2010C Biology I

2. Common Program Prerequisites (16 hrs)

BSC 2010C* Biology I GEP

*BSC 2010C must be taken from the UCF Biology Department.
UCF Degree Programs

BSC 2011C* Biology II 4 hrs
MAC 2311* Calculus w/ Anal Geometry I GEP
STA 2023* Statistical Methods I GEP
CHM 2302C Chem Fundamentals of Biology GEP
CHM 2046 & L Chem. Fund II & lab 4 hrs
Select one Physics sequence with labs* 8 hrs
PHY 2053C College Physics I
PHY 2054C College Physics II or
PHY 2048 & L Physics Engr. & Sci. I & Lab
PHY 2049 & L Physics Engr. & Sci. II & Lab
*See Transfer Notes for possible substitutes

3. Core requirements (21-23 hrs)
Select one Chemistry sequence
CHM 2210 Organic Chem. I, and 3 hrs
CHM 2211 & L Organic Chem. II & lab 5 hrs
or
CHM 3120C Analytical Chemistry, and 5 hrs
CHM 2205 Intro Organic & Biochemistry 5 hrs
PCB 3044 Ecology 3 hrs
PCB 3063 Genetics 3 hrs
PCB 3023 Molecular Cell Biology 3 hrs
PCB 4863 Population Biol & Evolution 4 hrs
(Note: Students planning on entering professional or graduate school should take Biochemistry (CHM 4053, 4054) as well as additional Calculus courses. Students are urged to consult their departmental advisor.)

4. Upper Division Restricted Electives (22 hrs)
Courses must be selected from the groupings listed below.
- Student must complete at least one course dealing exclusively with animals (marked a) and one course dealing exclusively with plants (marked b).
- At least three credit hours from each group must be completed.
- No more than 12 hours of the upper division restricted electives may be taken outside the Biology Department.
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- Courses at the 5000 level are only open to seniors and beginning graduate students.

4.1 Form/Function (minimum of one lecture course)
BCH 4053 Biochemistry I 3 hrs
BCH 4054 Biochemistry II 3 hrs
b BOT 4223C Plant Anatomy 4 hrs
b BOT 4303C Plant Kingdom 5 hrs
b BOT 4503 Plant Physiology 3 hrs
BSC 4101 History of Biology 3 hrs
PCB 3063L Genetics Laboratory 1 hr
PCB 3233 Immunology 3 hrs
PCB 4524 Molecular Biology II 3 hrs
a PCB 4723 Animal Physiology 4 hrs
a PCB 4863L Population Bio and Evolution Lab 1 hr
PCB 5107C Adv Cell Biology 4 hrs
a PCB 5256C Adv Develop Biology 4 hrs
a PCB 5556C Conser Genetics 3 hrs
a PCB 5665C Human Genetics 4 hrs
a ZOO 4713C Comparative Vert Anatomy 5 hrs
a ZOO 4603C Embryology/Development 5 hrs
a ZOO 4753C Vertebrate Histology 4 hrs

4.2 Environmental (minimum of one lecture course)
b BOT 3152C Local Flora 3 hrs
b BOT 3800 Ethnobotany 3 hrs
b BOT 4156C Florida Wildflowers 4 hrs
b BOT 4686C Conservation of Native Plants 4 hrs
b BOT 5623C Plant Geography & Ecology 4 hrs
BSC 4312C Marine Biology 4 hrs
PCB 3044L Ecology Laboratory 1 hr
PCB 3442 Florida Aquatic Ecology 3 hrs
PCB 4302C Physicochemical Limnology 4 hrs
PCB 4303C Biological Limnology 4 hrs
PCB 5045C Conservation Biology 4 hrs
PCB 5328C Landscape Ecology 4 hrs
PCB 5326C Ecosystems of Florida 5 hrs
PCB 5485 Models in Ecology 3 hrs
a ZOO 4513 Animal Behavior 3 hrs
a ZOO 5520 Behavioral Ecology 3 hrs
a ZOO 5815 Zoogeography 4 hrs
a ZOO 5881C Fisheries Management 4 hrs
a ZOO 5993L Repro Mgt Zool Env 1 hr

4.3 Systematic (minimum of one lecture course)
b BOT 4713C Plant Taxonomy 5 hrs

b BOT 5456C Terrestrial Cryptogams 3 hrs
a ENY 4004C General Entomology 4 hrs
a MCB 3020C General Microbiology 5 hrs
PCB 3301C Aquatic Biology 4 hrs
a ZOO 3405C Bio & Ecol of Metazoan Inverts 4 hrs
a ZOO 4310C Vertebrate Evolution & Ecol 4 hrs
a ZOO 5456C Ichthyology 4 hrs
a ZOO 5486C Herpetology 4 hrs
a ZOO 5475C Ornithology 4 hrs
a ZOO 5486C Mammalogy 4 hrs

Additional courses (e.g., BSC 4422L and BSC 5408L) may be used to meet a group requirement with approval of the Curriculum Committee via petition.

5. Departmental Exit Requirements
- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to
  1) check and maintain their campus electronic mail account and
  2) be capable of locating, viewing, and retrieving documents on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors should not take any courses required in the major as a transient student at a community college.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

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

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

Total Semester Hours Required 120 hours

Related Programs: Molecular and Microbiology, Science Education, Environmental Engineering
Related Minors: Biology, Molecular and Microbiology

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

Acceptable Substitutes:
The following substitutions are acceptable for common program prerequisites if taken as part of the AA course work:
- BSC 2010C & Lab: may use PCB 2010, PCB 2011, PCB 2021, PCB 2131, BSC 1040, or BSC 2012
- BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require either BSC 2011C or both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 214C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282. However, statistics at or above the level of STA 2023 is required in the major and still must be taken.
- MAC 2311: may use MAC 2233, MAC 2253 or MAC 2281
- Physics: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.
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**
  - PCB 2010C Biology I 4
  - CHM 2045C Chemistry Fund I 4
  - ENC 1101 Composition I 4
  - Electives* Check restrictions 3
- **Spring**
  - PCB 2063 Genetics 3
  - Electives* Check restrictions 3

### Sophomore Year

- **Fall**
  - MAC 2311 Calc Anal Geo I 4
  - POS 2041* req# 1D-1GEP 3
  - STA 2023 Stat Methods I 3
  - CHM 2210* req# 3-Core 3
  - PCB 3044 Prin of Ecology 3
- **Spring**
  - PHY 2053C* req# 2-CPP 4
  - PCB 3023 Mol Cell Biology 3
  - BOT 4303C* req# 4.I ResEl 4
  - Electives* Check restrictions 3

### Junior Year

- **Fall**
  - PHY 2053C* req# 2-CPP 4
  - PHY 2054C* req# 2-CPP 4
  - PCB 3023 Mol Cell Biology 3
  - BOT 4303C* req# 4.I ResEl 4
- **Spring**
  - PHY 2053C* req# 2-CPP 4
  - PHY 2054C* req# 2-CPP 4
  - PCB 3023 Mol Cell Biology 3
  - Electives* Check restrictions 3

### Senior Year

- **Fall**
  - HUM 2211* req# 1B-1GEP 3
  - PSY 2012* req# 1D-2GEP 3
  - REL 2300* req# 1B-2GEP 3
  - PCB 4683 Pop Biology Evol 4
  - Electives* Check restrictions 3
- **Spring**
  - HUM 2211* req# 1B-1GEP 3
  - Electives* Check restrictions 3

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**BIOLOGY - PREPROFESSIONAL CONCENTRATION (B.S.)**

**College of Arts and Sciences**

Biology Department, BL 301, 407-823-2141

http://pegasus.cc.ucf.edu/~biology/

E-mail: biology@ucf.edu

F. Logiudice, 407-823-2141

Students who hope to gain admission to a professional school (medical, dental, optometry, veterinary medicine, etc.) can meet the admission requirements while pursuing a biology degree. The following track lists courses that will meet both sets of requirements.

**Admission Requirements**

**none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- **Notice:** Professional schools do not accept AP or IB credit.
- Co-op or internship credit cannot be used in the major.
- No more than four hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 23 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization of the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.
- A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

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### 1. UCF General Education Program

(39 hrs)

- **A. Communication Foundations**
  - Select ENC 1101, ENC 1102 6 hrs
  - Select SPC 1016 Tech Presentations 3 hrs
- **B. Cultural and Historical Foundations**
  - Prevar PSY 2012 General Psychology 3 hrs
  - Prevar ECO 2013 Macroeconomics 3 hrs
- **C. Mathematical Foundations**
  - Select MAC 2311 Calculus with Analy Geo, or MAC 2241 Calculus for Life Sciences 4 hrs
  - Select STA 2023 Statistical Methods I 3 hrs
- **D. Social Foundations**
  - Select for General Psychology
  - Select for ECO 2013 Macroeconomics
- **E. Science Foundations**
  - Select CHM 2045C Chem Fund I 4 hrs
  - Select PCB 2010C Biology I 4 hrs

### 2. Common Program Prerequisites

(16 hrs)

- **BSC 2010C** Biology I GEP
  - **BSC 2011C** Biology II GEP
  - **MAC 2311** Calculus w/ Analytic Geometry GEP
  - **STA 2023** Statistical Methods I GEP
  - **CHM 2045C** Chem Fund I GEP
  - **CHM 2046 & L** Chem Fund II & lab 4 hrs
  - Select one Physics sequence with labs* 8 hrs
  - **PHY 2053C** College Physics I
  - **PHY 2054C** College Physics II
  - or
  - **PHY 2048 & L** Physics Engr. & Sci. I & Lab
  - **PHY 2049 & L** Physics Engr. & Sci. II & Lab

*See Transfer Notes for possible substitutes

### 3. Additional Core requirements

(21 hrs)

- PCB 3044 Biophys 3 hrs
  - PCB 3063 Genetcs 3 hrs
  - CHM 2210 Org Chem. I 3 hrs
  - CHM 2211 & L Organic Chem. II & lab 5 hrs
  - PCB 3023 Molecular Cell Biology 3 hrs
  - PCB 4683 Population Biology & Evolution 4 hrs

### 4. Restricted Electives (Suggested)

**22 hrs**

- Student must complete at least one course dealing exclusively with animals (marked a) and one course dealing exclusively with plants (marked b).
- No more than 12 hours of the upper division restricted electives may be taken outside the Biology Department.
- Transferred courses must be at a 3000 level or higher.
- The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements. For complete listing, see Biology B.S. degree program.

#### 4.1 Form/Function (minimum of one lecture course)

- **BCH 4053** Biochemistry I 3 hrs
- **BCH 4054** Biochemistry II 3 hrs
- **PCB 3233** Immunology 3 hrs
- **PCB 5665C** Human Genetics 4 hrs
- a **PCB 4723** Animal Physiology 4 hrs
- a **ZOO 3133C** Comparative Vert &Anatomy 5 hrs
- a **ZOO 4603C** Embryology/Development 5 hrs
- a **ZOO 4753C** Vertebrate Histology 4 hrs

#### 4.2 Environmental (minimum of one lecture course)

- **BCH 3000** Botany 3 hrs

#### 4.3 Systematic (minimum of one lecture course)

- **MCB 3020C** General Microbiology 5 hrs
- a **ZOO 4205C** Bio & Ecol of Metazoan Inverts 4 hrs
- a **ZOO 4310C** Vertebrate Evolution & Ecol 4 hrs

### 5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving documents on the World Wide Web.
- Students will be required to take a comprehensive exam in biolog-
UCF Degree Programs

Sophomore Year

Fall
MAC 2311 Calc Anal Geo I 3
POC 2043* req# 1D1-GEP 3
STA 2033 Stat Methods I 3
CHM 2210 Organic Chm I 3
PCB 3044 Print of Ecology 3

Spring
MAC 2312 Calc Anal Geo II 4
4
SPC 1016 Fund Tech Presnti 3
CHM 2211 Organic Chm II 3
POC 2043* req# 1D1-GEP 3
PCB 3063 Genetics 3
3
BOT 3800* req# 4.2-ResE-b 3

Junior Year

Fall
HUM 2211* req# 1B1-GEP 3
PHY 2048L* req# 2-CPP 1
PHY 2048L* req# 2-CPP 1
PCB 3023 Mol Cell Biology 3
ZOO 3713C* req# 4.1-ResEl 5

Spring
MAC 2311 Calc Anal Geo I 3
PHY 2049L* req# 2-CPP 1
PHY 2049L* req# 2-CPP 1
PCB 3023 Mol Cell Biology 3
ZOO 3713C* req# 4.1-ResEl 5

Senior Year

Fall
PSY 2012* req# 1D2-GEP 3
REL 2300* req# 1B3-GEP 3
PCB 4683 Popl Biology Evol 4
BCH 4053* req# 4.1-ResEl 4
Elective* Check restrictions 3

Spring
PSY 2012* req# 1D2-GEP 3
REL 2300* req# 1B3-GEP 3
PCB 4683 Popl Biology Evol 4
BCH 4053* req# 4.1-ResEl 4
Elective* Check restrictions 3

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

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

Total Semester Hours Required 120 hours

Limited Access Program

Admission Requirements
- Separate Application to the limited access program must be made directly to the program prior to February 1st of the year admission is sought.
- Application to the University must also be submitted by the program deadline of February 1st. Acceptance to UCF is necessary before acceptance to the Cardiopulmonary Sciences program can occur.
- This limited access program is work-intensive and courses include clinical practice in a variety of health care settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program.
- A personal interview is a required part of the application process.
- Student must complete all general education, foreign language courses, and program admission prerequisites by the end of Spring Semester before starting the program.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C".
- A one page statement of intent for entry into the profession must be included with the program application. Typical papers are single spaced and approximately 500 words in length. Candidate should reflect on their reasons for wishing to become a respiratory care professional and their feelings concerning their recent visit to a respiratory or cardiopulmonary department.
- Applicants are required to have completed a cardiopulmonary resuscitation (CPR) program specifically designed for health care providers prior to admission to the program.
- The limited access portion of the cardiopulmonary sciences program has a requirement for all students to submit a criminal background check prior to the scheduling of a personal interview. This requirement mirrors clinical affiliates' need to guarantee patient safety by screening students prior to providing them access to their patient populations.
- The practice of respiratory care can be a physically challenging experience. Students must possess a level of visual acuity, auditory perception, and motor coordination necessary to participate fully in this limited access program. Specific questions about the physical requirements for this program and professional duties should be directed to the Program Director.

CARDIOPULMONARY SCIENCES (B.S.)
College of Health and Public Affairs
HPA2 210; 407-823-2214
http://www.cohpa.ucf.edu/health/pro/
Undergraduate Program Director: Jeffery E. Ludy, EdD, RRT
E-mail: jludy@mail.ucf.edu

Admission Requirements - Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program.

- Separate Application to the limited access program must be made directly to the program prior to February 1st of the year admission is sought.
- Application to the University must also be submitted by the program deadline of February 1st. Acceptance to UCF is necessary before acceptance to the Cardiopulmonary Sciences program can occur.
- This limited access program is work-intensive and courses include clinical practice in a variety of health care settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program.
- A personal interview is a required part of the application process.
- Student must complete all general education, foreign language courses, and program admission prerequisites by the end of Spring Semester before starting the program.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C".
- A one page statement of intent for entry into the profession must be included with the program application. Typical papers are single spaced and approximately 500 words in length. Candidate should reflect on their reasons for wishing to become a respiratory care professional and their feelings concerning their recent visit to a respiratory or cardiopulmonary department.
- Applicants are required to have completed a cardiopulmonary resuscitation (CPR) program specifically designed for health care providers prior to admission to the program.
- The limited access portion of the cardiopulmonary sciences program has a requirement for all students to submit a criminal background check prior to the scheduling of a personal interview. This requirement mirrors clinical affiliates' need to guarantee patient safety by screening students prior to providing them access to their patient populations.
- The practice of respiratory care can be a physically challenging experience. Students must possess a level of visual acuity, auditory perception, and motor coordination necessary to participate fully in this limited access program. Specific questions about the physical requirements for this program and professional duties should be directed to the Program Director.
This department will continue to accept Associate in Arts (AA) and Associate in Science (AS) transfers, but those students admitted with the AS degree will need to complete the UCF General Education requirements before they can be actively considered for admission to this limited access program. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of current articulation activity.

Note: A total of 18 UCF undergraduates 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 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.
- 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 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
   - Select STA 2023
   - 9 hrs
B. Cultural Historical Foundations
   - Select STA 2023
   - 9 hrs
C. Mathematical Foundations
   - Select STA 2023
   - 6 hrs
D. Social Foundations
   - Select STA 2023
   - 6 hrs
E. Science Foundations
   - Select STA 2023
   - 6 hrs

2. Common Program Prerequisites (16 hrs)

MAC 1105 College Algebra GEP
STA 2023 Statistical Methods I GEP
BSC 2010C Biology I GEP
MCB 2004C Microbiology
ZOO 3733C Human Anatomy*
PCB 3703C Human Physiology*
CHM 1032&L Chemistry for Health Sciences or higher level (with lab) GEP
PHY 2053C College Physics or higher level (with lab) 4 hrs

* see transfer notes

3. Core Requirements (75 hrs)

RET 4093 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 none

5. Departmental Exit Requirements (127 hrs)
Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 32 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 127 hrs

Related Programs: Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate

Related Minors: Health Services Administration, Health Sciences, Molecular Biology & Microbiology, Biology, Chemistry

Transfer Notes:
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 knowledge may be demonstrated by successful completion of the two part registry examination given by the National Board for Respiratory Care (NBRC). Only graduates of an accredited institution and program are eligible for the NBRC credentials. Students who successfully complete these requirements will have validated the knowledge and clinical competencies and will be awarded credit in their final semester with grades of “S” recorded in their transcripts.

Community College Equivalents
College Algebra (MAC 1105) or (higher level) 3 hrs
Statistics (STA 2023) or (higher level) 3 hrs
College Physics I (PHY 1007L) or (PHY 3004L) or higher level with labs 4 hrs
General Chemistry with Lab (CHM 1031L) or (higher level) 4 hrs
Biological I with Lab (BSC 1005L) or (higher level) 4 hrs
General Microbiology (MCB 2010C) or (MCB 2005) or (BSC 2005L) or (PHA 2753) 4 hrs
Human Anatomy and Physiology I & II (BSC 2036C and 2034C) or (BSC X085 and X086) replaces Anatomy and Physiology courses (ZOO 3733C and PCB 3703C) 8 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall 16
ENC 1101 3
ENC 1102 4
CHA 1032 and lab 3
MIB 2004C 4
MAC 1105 3
PSY 1021 or
 Alternatively
3
ANT 1000 or SYG 1000
HSC 2000 2
Spring 16
EUC 1101 3
MIB 2004C 4
MIB 2005 3
MIB 2005L 4
MIB 2005S 3
MIB 2005T 4
HSC 2000 2
CHEMISTRY (B.S.)

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

Admission Requirements

Degree Requirements

1. UCF General Education Program (39 hrs)
   A. Communication Foundations
      Select ENC 1101, ENC 1102
      Select SPC 1016 Tech Presentations
      Select ENC 1101
   B. Cultural and Historical Foundations
      Select MAC 2311 Calculus
      Select STA 1060C Statistics Using Excel
      Select STA 2023 Statistical Methods I
      Select STA 2023
   C. Mathematical Foundations
      Select PHY 2048 & L Physics Engr. & Sci. I & Lab
      Select PHY 2048 & L Physics Engr. & Sci. II & Lab
   D. Social Foundations
      Select PHY 2048 & L Physics Engr. & Sci. I & Lab
      Select PHY 2048 & L Physics Engr. & Sci. II & Lab
   E. Science Foundations
      Select PHY 2048 & L Physics for Sci & Engr
      Select PHY 2048 & L Physics for Sci & Engr
      Select PHY 2048 & L Physics for Sci & Engr
      Select PHY 2048 & L Physics for Sci & Engr
   F. Common Program Prerequisites (22 hrs)
      CHM 2045C* Chem Fund I
      CHM 2046 & L Chem Fund II with lab
      CHM 2210 Organic Chem. I
      CHM 2211 Organic Chem. II
      MAC 2311 Calculus w/ Anal Geometry I
      MAC 2312 Calculus w/ Anal Geometry II
      PHY 2048 & L* Physics Engr. & Sci. I & Lab
      PHY 2049 & L Physics Engr. & Sci. II & Lab

   *See Transfer Notes for possible substitutes

2. Core Requirements (39 hrs)
   MAC 2313 Calculus w/ Anal Geometry III
   CHM 2211L Organic Lab Techniques I
   CHM 2212L Organic Lab Techniques II
   CHM 3120C Analytical Chemistry
   CHM 3410C Physical Chemistry I
   CHM 3411 Physical Chemistry II
   CHM 3411L Physical Chemistry Lab
   CHM 4160 Inorganic Chemistry
   CHM 4160L Inorganic Chemistry Lab
   CHM 4130C Adv Analytical Lab Technique
   CHM 4914C Undergraduate Research Methods
   CHM 4912 Undergraduate Research
   CHM 4930 Advanced Chemistry Seminar
   PHY 2048 & L Physics Engr. & Sci. I & Lab
   PHY 2049 & L Physics Engr. & Sci. II & Lab
   BCH 4033 Biochemistry I
   BSC 2010C Biology I
   STA 2023 Statistics Using Excel
   STA 1060C Statistics Using Excel
   STA 2023 Statistical Methods I
   CGS 1060C Intro to Computer Science

3. Directed Elective (3 hrs)
   Course will be selected with the aid of a departmental advisor and approved in advance by the department chair. Course will be selected from the biological, mathematical sciences and/or related disciplines and normally will be at the 3000/4000 level. Co-op courses cannot be used in the major.

4. Upper Division Restricted Electives (6 hrs)
   BCH 4054 Biochemistry II
   CHM 5225 Advanced Organic Chem I
   CHM 4220 Organic Chem III
   CHM 5235 Applied Molec Spectroscopy
   CHM 5580 Advanced Physical Chem
   CHM 5450 Polymer Chemistry
   CHM 5451C Techniques in Polymer Chemistry
   CHS 4200 Concepts in Industrial Chem
   CHS 4615 Environmental Chem

5. Directed Elective (3 hrs)
   Course will be selected with the aid of a departmental advisor and approved in advance by the department chair. Course will be selected from the biological, mathematical sciences and/or related disciplines and normally will be at the 3000/4000 level. Co-op courses cannot be used in the major.

6. Departmental Exit Requirements
   - Complete a minimum of 24 Chemistry credits at UCF
   - Achieve at least a “C” GPA (2.0) in all UCF Chemistry courses and an overall 2.0 GPA in all Chemistry courses used to satisfy this requirement
   - Grades earned in CHM 4914, CHM 4930 and CHM 4912 will not be applied in the determination of the Chemistry GPA
   - Students are required to take a nationally normed test in chemistry during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring. The student must achieve a satisfactory score on the exam.
   - Students are required to submit an undergraduate research report for evaluation no later than three weeks prior to the last day of regularly scheduled classes in the semester they intend to graduate. The report must meet or exceed departmental requirements established for the report.
   - Computer Competency met by STA 1060C, a computer science course, or by departmental assessment
   - The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   Graduation: none

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

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed.
### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<table>
<thead>
<tr>
<th>Summer</th>
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<tbody>
<tr>
<td>Chem test See catalog</td>
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<tr>
<td>Math test See catalog</td>
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<table>
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<tr>
<th>Freshman Year</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>MAC 2311 Calculus I</td>
<td>ENC 1102 Composition I</td>
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<tr>
<td>ENC 1101 Composition</td>
<td>SYG 2000</td>
</tr>
<tr>
<td>MAC 2311 Calc/Ana Geo I</td>
<td>CHM 2045C/45L Chemistry Fundamentals I/Lab</td>
</tr>
<tr>
<td>MAC 2312 Calc/Ana Geo II</td>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>PHY 2048/48L Physics for Engineers &amp; Scientists I</td>
<td>PHI 2010* req# IB3-GEP</td>
</tr>
<tr>
<td>PHY 2049/48L Physics for Engineers &amp; Scientists II</td>
<td>CHM 2211 Organic Chem I</td>
</tr>
<tr>
<td>STA 1060C Stat Using Excel</td>
<td>PHY 2048/48L Physics for Engineers &amp; Scientists I</td>
</tr>
<tr>
<td>CHM 2210 Organic Chem I</td>
<td>PHY 2049/48L Physics for Engineers &amp; Scientists II</td>
</tr>
<tr>
<td>MAC 2313 Calc/Ana Geo III</td>
<td>MAC 2211 Organic Chem II</td>
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<table>
<thead>
<tr>
<th>Junior Year</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>POS 2041* req# 1D1-PET</td>
<td>CHM 3411 Physical Chem II</td>
</tr>
<tr>
<td>BCH 4053 Biochemistry I</td>
<td>CHM 3411L Physical Chem II</td>
</tr>
<tr>
<td>CHM 3120 Analy Chemistry</td>
<td>CHM 4310 Adv Analy Chem I</td>
</tr>
<tr>
<td>CHM 2212L Organic Tech I</td>
<td>CHM 4610 Inorganic Chemistry</td>
</tr>
<tr>
<td>CHM 3410 Physical Chem I</td>
<td>BCH 4054* req# 4-ResEt</td>
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<table>
<thead>
<tr>
<th>Senior Year</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>HUM 2211* req# 1B1-GEP</td>
<td>MUL 2010* req# IB2-GEP</td>
</tr>
<tr>
<td>CHM 4610L Inorganic Chemistry</td>
<td>SPC 1016 Tech Presentations</td>
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<tr>
<td>CHM 4914C undergraduate Res Meth</td>
<td>CHM 4912 Research</td>
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<tr>
<td>CHM 4220* req# 4-ResEt</td>
<td>CHM 4930 Undergrad Chem Sem</td>
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<tr>
<td>PCB 3063* req# 5-Des</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td></td>
<td>Elective* Check restrictions</td>
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</tbody>
</table>

**CINEMA STUDIES TRACK in FILM**

See Film - Cinema Studies Track

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### 1. UCF General Education Program for Engineering Students

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

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

B. Cultural and Historical Foundations
   9 hrs

C. Mathematical Foundations
   7 hrs
   1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs)

   Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
   2. Take STA 3012 (3 hrs)

   Note: Calculus II is the prerequisite for this course.

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

E. Science Foundations
   7 hrs
   1. Take PHY 2048/48L.
   2. Prefer GEO 1000

### 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MAC 2311 and PHY 2048/48L</td>
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</tr>
<tr>
<td>MAC 2311 and PHY 2048/48L</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2312 and PHY 2048/48L</td>
<td>4 hrs</td>
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<tr>
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<td>GEP</td>
</tr>
<tr>
<td>PHY 2049/49L Physics for Engineers &amp; Scientists II</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>Humanities Courses</td>
<td>GEP</td>
</tr>
<tr>
<td>Social Science Courses</td>
<td>GEP</td>
</tr>
<tr>
<td>Humanities or Social Sciences</td>
<td>GEP</td>
</tr>
</tbody>
</table>

### 3. Courses Required for the Major

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 1006C Intro to the Engineering Profession</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 1007C Engineering Concepts &amp; Methods</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 2046 Computer Engineering Fundamentals</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3310 Engineering Analysis - Statics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3321 Engineering Analysis - Dynamics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
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.

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. Communication Foundations 9 hrs
B. Cultural/Historical Elective 3 hrs
C. Upper Division Courses
   - EGN 3310 Engineering Analysis - Statics 3 hrs
   - EGN 3331 Mechanics of Materials 3 hrs
   - STA 3032 Probability & Statistics for Engineers GEP 3 hrs

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: Environmental Engineering

Related Minors: Mathematics

Transfer Notes:
A. Courses taken from Community Colleges do not substitute for Upper Division Courses.
B. Courses transferred must be formally evaluated for equivalency. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

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

Civil Engineering - 128 semester hours required

FIRST YEAR

Fall 14 hrs
- *ENC 1101 English Comp I 3 hrs
- *MAC 2311 Calc w/Analy Geo I 4 hrs
- SPC 1016 Tech Presentations 3 hrs

Spring 15 hrs
- *ENC 1102 English Comp II 3 hrs
- *MAC 2312 Calc w/Analy Geo II 4 hrs
- *PHY 2048L Phys Engr I w/lab 4 hrs

SECOND YEAR

Fall 16 hrs
- *MAC 2313 Calc w/Analy Geo III 4 hrs
- *CHEM 245/246C/247C Chem Funds I 4 hrs
- HUM/AMH/PHIL I 3 hrs
- EGN 3130 Engr Anal - Statics 3 hrs
- EGN 3163 Engr Econ Anal 2 hrs

Spring 16 hrs
- MAC 2314 Calc w/Analy Geo IV 4 hrs
- *CHEM 245/246C/247C Chem Funds II 4 hrs
- HUM/AMH/PHIL II - I 3 hrs
- EGN 3370 Eng Anal - Dynamic 3 hrs
- EGN 3321 Engr Anal-Dynamic 2 hrs

Summer 9 hrs
- STA 3032 Prob/Stats for Engrs 3 hrs
- EGN 3331 Mech of Materials 3 hrs
- ENV 3001 Intro to Envir Eng 3 hrs

THIRD YEAR

Fall 16 hrs
- CWR 3201 Engineering Fluid Mechanics 3 hrs
- CCE 4003 Intro to Const Indus 3 hrs
- EGN 3343 Thermodynamics 3 hrs
- CES 4100C Structural Analysis I 4 hrs
- *SUR 2101C Surveying 3 hrs

Spring 16 hrs
- EGN 3301 Eng Fluid Mechanics 3 hrs
- CWR 4101C Hydrology 3 hrs
- CES 4702 Reinforced Concrete Structures 3 hrs
- CES 4605 Steel Structures 3
- Approved Project Design Course 3 hrs

FORTH YEAR

Fall 14 hrs
- ENV 4561 Env Eng-Proc Design 4 hrs
- CES 4100C Geotechnical Engn 4 hrs
- EGN 3613 Engr Econ Anal 2 hrs
- EGN 3321 Engr Anal-Dynamic 3 hrs
- *HUM/AMH/EUH - II 3 hrs

Spring 12 hrs
- EGN 3320 Eng Fluid Mechanics 3 hrs
- CWE 4003 Intro to Const Indus 3 hrs
- EGN 3343 Thermodynamics 3 hrs
- CES 4100C Structural Analysis I 4 hrs
- *SUR 2101C Surveying 3 hrs
- TTE 4004 Transportation Eng 4 hrs

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.

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

College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE),
ENG2 211, 407-823 2841, Fax: 407-823-3315,
http://www.cee.ucf.edu
Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,
E-mail: cophi@mail.ucf.edu
Associate Chair and Construction Program Director: Amr A. Oluofa,
E-mail: aoloufa@mail.ucf.edu

Admission Requirements
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

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

A. Communication Foundations 9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Take SPC 1016
B. Cultural and Historical Foundations 9 hrs
## C. Mathematical Foundations (7 hrs)

1. Take MAC 2311, Calculus with Analytic Geometry I. (4 hrs)

### Note:
College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

2. Take STA 2032. (3 hrs)

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

## D. Social Foundations 6 hrs

1. Take ECO 2023, Microeconomics. (3 hrs)
2. Take ANT 2000, PSY 2012, or SYG 2000. (3 hrs)

## E. Science Foundations 7 hrs

1. Take PHY 2048/48L. (4 hrs)
2. Prefer GEO 1200. (3 hrs)

### 2. Common Program Prerequisites (CPP’s) (19 hrs)

These courses are specified 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045/45L Chemistry Fundamentals I</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2311 Calculus with Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2312 Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2313 Calculus with Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>MAP 2302 Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2048/48L Physics for Engineers &amp; Scientists I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2049/49L Physics for Engineers &amp; Scientists II</td>
<td>4</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Courses</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Courses</td>
<td>3</td>
</tr>
<tr>
<td>Humanities or Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

### 3. Courses Required for the Major (62 hrs)

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 1006C Intro to the Engineering Profession</td>
<td>1</td>
</tr>
<tr>
<td>EGN 1007C Engineering Concepts &amp; Methods</td>
<td>1</td>
</tr>
<tr>
<td>CHM 2046 Chemistry Fundamentals II</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3310 Engineering Analysis - Statics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3321 Engineering Analysis - Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3331 Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3613 Engineering Economic Analysis</td>
<td>2</td>
</tr>
<tr>
<td>ENV 3001 Intro to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>STA 3022 Probability &amp; Statistics for Engineers</td>
<td>4</td>
</tr>
<tr>
<td>CCE 4813 Mech &amp; Elec Sys for Buildings</td>
<td>4</td>
</tr>
<tr>
<td>CCE 4402 Construction Equip &amp; Productivity</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365 Struc &amp; Prop of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CCE 4004 Construction Methods</td>
<td>3</td>
</tr>
<tr>
<td>CCE 4034 Construction Estimating &amp; Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CCE 4003 Intro to the Construction Industry</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4101C Geotechnical Engineering I</td>
<td>4</td>
</tr>
<tr>
<td>CES 4100C Structural Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>CES 4702 Reinforced Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CWR 3201 Engineering Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>AGC 2071 Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>SUR 2101C Surveying</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4004 Transportation Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

### 4. Approved Engineering Science Electives (3 hrs)

Engineering Science electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students are encouraged to take either EGN 3343 (Thermodynamics) or EGN 3373 (Principles of Elect Engr) as the technical elective. Other courses from the list of approved technical electives may be used with the approval of the department advisor. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCE 4810C Construction Engr. Design Project</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4801C Geotechnical Engr. Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Civil engineering students must take the Fundamentals Exam during their Senior year.

### 5. Departmental Graduation Requirements 6 hrs

- CCE 4810C Construction Engr. Design Project 3 hrs
- CEG 4801C Geotechnical Engr. Design 3 hrs

Earn a graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved CE project design courses.

### 6. Foreign Language Requirements (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:** Environmental Engineering.

**Related Minors:** Mathematics.

**Transfer Notes:**
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

### Tentative Course Schedule for Entering Freshmen

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

#### Civil Engineering - Construction Engineering Option

**128 semester hours required**

### FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>ENC 1101 English Comp</td>
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<td>MAC 2311 Calc w/Analy Geo</td>
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<tr>
<td>MAC 2312 Calc w/Analy Geo</td>
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<tr>
<td>PHY 2048/48L Phys for Engineers &amp; Scientists I</td>
<td>4</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3</td>
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<tr>
<td>Humanities Courses</td>
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<td>Social Science Courses</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
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<tr>
<td>PHY 2048/48L Phys Engr I w/lab</td>
<td>4</td>
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<tr>
<td>ENC 2013 Microeconomics</td>
<td>3</td>
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<tr>
<td>EGO 2023 Microeconomics</td>
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<tr>
<td>EGN 1006C Intro To Eng Prof</td>
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<tr>
<td>EGN 1007C Eng Con &amp; Meth</td>
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### SECOND YEAR

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<td>MAC 2311 Calc w/Analy Geo</td>
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<tr>
<td>CHM 2045/45L Chemistry Fundamentals I</td>
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<tr>
<td>EGN 3365 Struc &amp; Prop of Materials</td>
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<tr>
<td>CES 4044 Construction Methods</td>
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<td>CCE 4034 Construction Estimating &amp; Scheduling</td>
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<td>CCE 4003 Intro to the Construction Industry</td>
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<tr>
<td>CEG 4101C Geotechnical Engineering I</td>
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<tr>
<td>CES 4100C Structural Analysis I</td>
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<td>CES 4702 Reinforced Concrete Structures</td>
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<td>CWR 3201 Engineering Fluid Mechanics</td>
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<tr>
<td>AGC 2071 Managerial Accounting</td>
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<tr>
<td>SUR 2101C Surveying</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4004 Transportation Engineering</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>EGN 3365 Struc &amp; Prop of Mat</td>
<td>3</td>
</tr>
<tr>
<td>CWR 3201 Eng Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ENV 3001 Intro to Envir Eng</td>
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### THIRD YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tr>
<td>Fall</td>
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<tr>
<td>EGN 3321 Eng Anal-Dynamics</td>
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<tr>
<td>CCE 4003 Intro Constr. Industry</td>
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<td>CES 4100C Structural Analysis I</td>
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<td>SUR 2101C Surveying</td>
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<td>CCE 4004 Construct Methods</td>
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<td>CCR 3201 Eng Fluid Mechanics</td>
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</tr>
<tr>
<td>Spring</td>
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<tr>
<td>Engineering Science Elective</td>
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<tr>
<td>CES 4702 Reinforced Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CCE 4002 Constr Equip &amp; Prod</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4801C Geotechnical Engr</td>
<td>3</td>
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<tr>
<td>AGC 2071 Prin Mgrl Accounting</td>
<td>3</td>
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</table>

### FOURTH YEAR

<table>
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<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>TTE 4004 Transportation Eng</td>
<td>4</td>
</tr>
<tr>
<td>CCE 4810C Constr Design Project</td>
<td>4</td>
</tr>
<tr>
<td>CCE 4034 Construc Est &amp; Sched</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4101C Geotechnical Engr</td>
<td>3</td>
</tr>
<tr>
<td>CCE 4813 Mech &amp; Elec Bldgs</td>
<td>3</td>
</tr>
</tbody>
</table>
UCF Degree Programs

1. Students who change degree programs and select this major

2. Engineering Science Elective may be satisfied by taking either EGN 3343 or EGN 3371; 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.

COMMUNICATIVE DISORDERS (B.A., B.S.)

College of Health and Public Affairs, HPA2  101
http://www.copa.ucf.edu/comdis/
Chair: R. Jane Lieberman, Phone: 407-823-4798
Undergraduate Coordinator: Jamie B. Schwartz
E-mail: jschwart@mail.ucf.edu
Phone: 407-823-4798

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students must attend an orientation and consult with a departmental advisor.
- The courses designated in section 1 below may be taken at a Florida 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.
- The courses designated in section 1 (General Education) should usually be completed in the first 60 hours

1. UCF General Education Program

   A. Communication Foundations
      - Choose one course from the following:
      - SPA 372 Communication Disorders in Literature and Media 3 hrs
      - SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
      - SPA 3112 Basic Phonetics 3 hrs
      - SPA 3112L Basic Phonetics Lab 1 hr
      - LIN 3716 Language Development: Birth through 8 yrs 3 hrs
      - SPA 3011 Speech Science I: Speech Production 3 hrs
      - SPA 3011L Speech Production Lab 1 hr
      - LIN 3717 Language Development: 9 though 18 yrs 3 hrs
      - SPA 3104 Neural Bases of Communication 3 hrs
      - SPA 3123 Speech Science II: Speech Perception 3 hrs
      - SPA 3123L Speech Perception Lab 1 hr
      - SPA 4476 Speech Disorders Across the Lifespan 3 hrs
      - SPA 4032 Audiology 3 hrs
      - SPA 4478 Multicultural Aspects: Communications Disorders and Differences 3 hrs
      - LIN 4711 Language Analysis 3 hrs
      - LIN 4711L Language Analysis Lab 1 hr
      - SPA 4400 Language Disorders Across the Lifespan 3 hrs
      - SPA 4321 Aural Habilitation-Rehabilitation 3 hrs
      - EAB 3703 Principles of Behavior Modification or 3 hrs
      - EEX 4601 Introduction to Behavior Management or 3 hrs
      - EEC 4603 Guidance of Young Children or 3 hrs
      - EDF 3307 Learning Environments and Guidance for Young Children or 3 hrs

   B. Cultural Historical Foundations
      - Choose one course from the following:
      - SPA 4550C Clinical Methods in Communicative Disorders 3 hrs
      - SPA 4552L* Undergraduate Clinical Practicum 3 hrs
      - SPA 4946 Community Internship 3 hrs

   C. Science Foundations
      - EDF 3307 Learning Environments and Guidance for Young Children or 3 hrs

   D. Social Foundations
      - Choose one course from the following:
      - STA 4163 Statistical Methods II or 3 hrs
      - STA 2023 Statistical Methods I GEP and 3 hrs
      - STA 4163 Statistical Methods II or 3 hrs
      - HSA 4701 Introduction to Research in the Health Professions 6 hrs

2. Core Requirements

   A. Developmental Psychology
      - DEP 2004 Developmental Psychology 3 hrs
      - SPA 3471 Communication Disorders in Literature and Media 3 hrs
      - SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
      - SPA 3112 Basic Phonetics 3 hrs
      - SPA 3112L Basic Phonetics Lab 1 hr
      - LIN 3716 Language Development: Birth through 8 yrs 3 hrs
      - SPA 3011 Speech Science I: Speech Production 3 hrs
      - SPA 3011L Speech Production Lab 1 hr
      - LIN 3717 Language Development: 9 though 18 yrs 3 hrs
      - SPA 3104 Neural Bases of Communication 3 hrs
      - SPA 3123 Speech Science II: Speech Perception 3 hrs
      - SPA 3123L Speech Perception Lab 1 hr
      - SPA 4476 Speech Disorders Across the Lifespan 3 hrs
      - SPA 4032 Audiology 3 hrs
      - SPA 4478 Multicultural Aspects: Communications Disorders and Differences 3 hrs
      - LIN 4711 Language Analysis 3 hrs
      - LIN 4711L Language Analysis Lab 1 hr
      - SPA 4400 Language Disorders Across the Lifespan 3 hrs
      - SPA 4321 Aural Habilitation-Rehabilitation 3 hrs
      - EAB 3703 Principles of Behavior Modification or 3 hrs
      - EEX 4601 Introduction to Behavior Management or 3 hrs
      - EEC 4603 Guidance of Young Children or 3 hrs
      - EDF 3307 Learning Environments and Guidance for Young Children or 3 hrs

   B. Statistics
      - STA 2023 Statistical Methods I GEP and 3 hrs
      - STA 4163 Statistical Methods II or 3 hrs
      - HSA 4701 Introduction to Research in the Health Professions 6 hrs

3. Electives

   A. UCF GPA
      - A 2.0 UCF GPA
      - 60 semester hours earned 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

   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.

   C. Foreign Language
      - Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL (American Sign Language) can be used to fulfill the foreign language admission requirement.

   D. Graduation
      - Students pursuing the B.A. degree must complete at least a “C-” (1.75) in each required course, restricted elective, and B.A./B.S. elective.

   E. 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.

   F. Total Semester Hours Required
      - 120 hours

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

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

Transfer Notes:

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

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall

- ENB 1101
- ENC 1102
- PSY 2012
- BSC 1005
- ERE 2051, or MUL 1010, or
- THE 2000, or REL 2300, or
- PHI 2010, or LIT 2110, or LIT 2120

- ENB 1101: 3 hrs
- ENC 1102: 3 hrs
- PSY 2012: 3 hrs
- BSC 1005: 3 hrs
- ERE 2051, or MUL 1010, or
- THE 2000, or REL 2300, or
- PHI 2010, or LIT 2110, or LIT 2120: 3 hrs

Spring

- ENB 1101
- ENC 1102
- PSY 2012
- BSC 1005
- ERE 2051, or MUL 1010, or
- THE 2000, or REL 2300, or
- PHI 2010, or LIT 2110, or LIT 2120

- ENB 1101: 3 hrs
- ENC 1102: 3 hrs
- PSY 2012: 3 hrs
- BSC 1005: 3 hrs
- ERE 2051, or MUL 1010, or
- THE 2000, or REL 2300, or
- PHI 2010, or LIT 2110, or LIT 2120: 3 hrs

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.

2. Engineering Science Elective may be satisfied by taking either EGN 3343 or EGN 3371; 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.
**UCF Degree Programs**

**College of Engineering and Computer Science**


**C. S. Bauer Jr., E-Mail: bauer@mail.ucf.edu**

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

**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**
   - Take ENC 1101
   - Take ENC 1102
   - Prefer SPC 1016

   **B. Cultural and Historical Foundations**
   - 9 hrs
   - Prefer SPC 1016

   **C. Mathematical Foundations**
   - 7 hrs
   - Prefer SPC 1016

   **Note:** College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

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.

3. **Courses Required for the Engineering Core**

   The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in section 4. below, technical elective courses listed in section 5. below and with the senior design courses listed in section 6. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

   - EGN 1006C Intro to the Engineering Profession 1 hr
   - EGN 1007C Engineering Concepts & Methods 1 hr
   - EGN 3310 Engineering Analysis - Statics 3 hrs
   - EGN 3321 Engineering Analysis - Dynamics or EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs
   - EGN 3420 Engineering Analysis 3 hrs
   - STA 3023 Probability & Statistics for Engineers or PHY 3101 Physics for Engineers & Scientists III 3 hrs

4. **Courses Required for the Major**

   - EEL 3304 Electrical Networks 3 hrs
   - EEL 3123C Networks and Systems 4 hrs
   - EEE 3306 Semiconductor Devices I 3 hrs
   - EEL 3307C Electronics I 4 hrs
   - EEL 3342C Intro to Digital Circuits & Systems 3 hrs
   - EEL 3657 Linear Control Systems 3 hrs
   - EEL 3801C Intro to Computer Engineering 3 hrs
   - EEL 4767C Computer System Design I 4 hrs
   - EEL 4768C Computer System Design II 4 hrs
   - EEL 4781 Computer Comm Networks 3 hrs
   - EEL 4851C Engineering Data Structures 4 hrs
   - EEL 4882 Engineering System Software 3 hrs
   - EEL 4884C Engineering Software Design 4 hrs

5. **Approved Technical Electives**

   Technical electives are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. **Departmental Graduation Requirements**

   - EEL 4914 Senior Design I 3 hrs
   - EEL 4915 Senior Design II 3 hrs
   - CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. **Foreign Language Requirements**

   - None

8. **University Minimum Graduation Requirements**
UCF Degree Programs

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

Total Semester Hours Required: 128 hrs


Related Minors: Information Technology, Computer Science.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

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

Computer Engineering - 128 semester hours required

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>12 hrs</th>
<th>14 hrs</th>
<th>13 hrs</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
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<td></td>
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<tr>
<td>*Cult &amp; Hist Foundations 1a</td>
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<tr>
<td>ENC 1102 English Comp II</td>
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<tr>
<td>MAC 2313 Calc with Analytic Geo I</td>
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<tr>
<td>MAC 2314 Calc with Analytic Geo II</td>
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<td></td>
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<tr>
<td>MAC 2315 Calc with Analytic Geo III</td>
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<tr>
<td>Summer</td>
<td>10 hrs</td>
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<tr>
<td>*Social Foundations 1</td>
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<tr>
<td>*Science Foundations 2</td>
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<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td>Fall</td>
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<tr>
<td>MAP 2302 Diff Equations</td>
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<tr>
<td>PHY 2048L Lab EnSci II</td>
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<tr>
<td>EGN 3321 Engr Anal-Dynamics</td>
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<tr>
<td>EEL 3358 Ther-Flds-Ht Tran</td>
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<tr>
<td>EEL 3342 Intro Dig Circ/ Sys</td>
<td>3</td>
<td></td>
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<tr>
<td>EEL 3801C Intro CompEngr2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EEL 3304 Electrical Networks</td>
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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>EEL 3306 Semicon'd Dev I</td>
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</tr>
<tr>
<td>EEL 4851C Eng Data Struc</td>
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<tr>
<td>STA 3032 Prob/Stats for Eng</td>
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<tr>
<td>EEL 3420 Eng Analysis2</td>
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<tr>
<td>EEL 4781C Cmp Sys Des'n I</td>
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</tr>
<tr>
<td>EEL 4882 Eng'g Sys SWN</td>
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</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th>12 hrs</th>
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<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 4768C Cmp Sys Dsgn II</td>
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<tr>
<td>MAC 2314 Calc with Analytic Geometry I*</td>
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<tr>
<td>MAC 2315 Calc with Analytic Geometry II*</td>
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<tr>
<td>MAC 2316 Calc with Analytic Geometry III*</td>
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<td>Physics for Engineers &amp; Scientists III*</td>
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<td>Composition II</td>
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</tr>
<tr>
<td>Social Sciences Courses</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. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.

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

Integrated BS/MS Degree Program

The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

COMPUTER ENGINEERING - SOFTWARE ENGINEERING CONCENTRATION (B.S.Cp.E.)

College of Engineering and Computer Science
Department of Electrical and Computer Engineering,
ENGR 407C, 407-823-2786, Fax: 407-823-5835,
http://www.cpe.ucf.edu
C. S. Bauer, Jr., E-Mail: bauer@mail.ucf.edu

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements

- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students

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

A. Communication Foundations 9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs

C. Mathematical Foundations 7 hrs
   1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs)
      Note: College algebra and trigonometry are prerequisites for
      Calculus I. See the course descriptions.
   2. Take STA 2023
      (3 hrs)
      Note: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
   1. Take ECO 2013 or ECO 2023
   2. Take ANT 2001, PSY 2012, or SYG 2000

E. Science Foundations 7 hrs
   1. Take PHY 2048/48L

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

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

Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-
requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

| CHS 1440 Fundamentals of Chemistry for Eng | 4 hrs |
| MAC 2311 Calculus with Analytic Geometry I* | 4 hrs |
| MAC 2312 Calculus with Analytic Geometry II* | 4 hrs |
| MAC 2313 Calculus with Analytic Geometry III* | 4 hrs |
| PHYS 2048/48L Physics for Engineers & Scientists I* | 4 hrs |
| PHYS 2049/49L Physics for Engineers & Scientists II* | 4 hrs |
| ENC 1101 Composition I | 3 hrs |
| ENC 1102 Composition II | 3 hrs |
| Humanities Courses | 3 hrs |
| Social Science Courses | 3 hrs |
3. Courses Required for the Engineering Core (14 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics or
EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs
EGN 3420 Engineering Analysis 3 hrs
STA 3032 Probability & Statistics for Engineers GEP
PHY 3101 Physics for Engineers & Scientists II 3 hrs

4. Courses Required for the Major (45 hrs)

EEL 3004 Electrical Networks 3 hrs
EEL 3123C Networks and Systems 4 hrs
EEL 3306 Semiconductor Devices I 3 hrs
EEL 3307C Electronics I 4 hrs
EEL 3342C Intro to Digital Circuits & Systems 3 hrs
EEL 3657 Linear Control Systems 3 hrs
EEL 3801C Intro to Computer Engineering 3 hrs
EEL 4767C Computer System Design I 4 hrs
EEL 4768C Computer System Design II 4 hrs
EEL 4781 Computer Comm Networks 3 hrs
EEL 4851C Engineering Data Structures 4 hrs
EEL 4882 Engineering System Software 3 hrs
EEL 4884C Engineering Software Design 4 hrs

5. Approved Software Technical Electives (6 hrs)
Technical electives are available in the BScpE program to address specific student interests in a variety of technical areas. For those students with a declared interest in Software Engineering, a concentration in this area is available by taking software technical electives, in addition to the required software engineering courses listed in 3. above.

6. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915 Senior Design II 3 hrs
- CECS encourages all engineering students to take the 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 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 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Minors: Information Technology, Computer Science.
Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with/ her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

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

Computer Engineering - Software Engineering Concentration
128 semester hours required

FIRST YEAR
Fall 14 hrs\(^1\)\(^2\) Spring 12 hrs\(^1\)\(^2\)
* Cult & Hist Foundations 1a 3  * ENC 1102 English Comp II 3
* ENC 1101 English Comp I 3  * EGN 1007C Eng Conc & Meth 3
* SPC 1016 Tech Presentations 1  * MAC 2312 Calc with Analy Geo II 4
EGN 1006C Intro to Engr 1  * PHY 2048/L Phys for Eng/Sci I 4
MAC 2311 Calc with Analy Geo I 4  
Summer 10 hrs 1
- * Social Foundations 1 3
- * Science Foundations 2 3
- * MAC 3313 Calc with Analy Geo III 4

SECOND YEAR
Fall 17 hrs\(^1\)\(^1\) Spring 15 hrs
* MAP 2302 Diff Equations 3  * EGN 3211 Engr Anal-Dynamics 3
* PHY 2049 Phys Engr/Sci II or 3
* PHY 2049L Lab Engr/Sci II 1  * EGN 3358 Ther-Flds-Ht Tran 3
CHS 1440 Chem for Engr 4  * Phys 3101 Physics for Engr III 3
EGN 3310 Engr Anal-Statics 3  * EGN 3420 Eng Anal-Statics 3
EEL 3342C Intro Dig Circ/ Sys 3  * EEL 3801C Intro Cmptr Engr 3
EEL 4914 Senior Design I 3  EEL 3904 Electrical Networks 3

Summer 6 hrs 1
- * ECO 2033 Microeconomics or 3
- ECO 2033 Microeconomics 3

THIRD YEAR
Fall 14 hrs Spring 14 hrs
EEL 3306 Semicondri Dev I 3  EEL 3307C Electronics I 4
EEL 4851C Eng Data Struc 4  EEL 3657 Linear Cont Sys 3
STA 3032 Prob/Stats for Engrs 3 EEL 4767C Comp Sys Des’n I 4
EEL 3123C Networks and Systems 4  EEL 4883 Engrng Sys S/W 3

FOURTH YEAR
Fall 14 hrs Spring 12 hrs\(^1\)
EEL 4786C Comp Sys Desgn II 4  * Cult & Hist Foundations 2 3
EEL 484C Engr S/W Desgn 4  EEL 4915 Senior Design II 3
EEL 4914 Senior Design I 3  EEL 4915 Senior Design II 3
Approved software technical elective 3  EEL 4781 Comp Comm Ntwks 3

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

Integrated BS/MS Degree Program
The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

COMPUTER SCIENCE (B.S.)
College of Engineering and Computer Science
School of Computer Science
CSCB 201
http://www.cs.ucf.edu
E-mail: computerscience@ucf.edu
David Workman, 407-823-2341

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.
UCF Degree Programs

language skills. Tests will be administered each semester. Refer to the computer science website for more information about the foundation exam.

Degree Requirements
- Students must earn at least a 2.0 in each course in 2-6
- 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 taken from Computer Science at UCF
- 18 of the 24 Residency hours must be at the 4000-5000 level

1. UCF General Education Program (39 hrs)
   A. Communication Foundations
      Select ENC 1101, ENC 1102
      9 hrs
   B. Cultural and Historical Foundations
      Select STA 2023 Statistical Methods I
      3 hrs
   C. Mathematical Foundations
      Select MAC 2311 Calculus
      4 hrs
   D. Social Foundations
      Select PHY 2048 & L Physics for Sci & Engr (PR:MAC 2311)
      4 hrs
   E. Science Foundations
      Select any science course designed for majors (exclusive of Physics)
      3 hrs

2. Common Program Prerequisites (14 hrs)
   COP 3330 Intro to OO Programming
   COP 3502C Computer Science I
   COP 3503C Computer Science II
   STA 2023 Statistical Methods I
   ENC 3241 Technical Report Writing
   CDA 4003C Computer Organization
   COP 3100C Intro to Data Structures
   PHI 3626 Ethics in Science and Technology
   Select two science courses designed for majors 3 hrs + GEP

Examples of acceptable science courses include:
- BSC 2010C Biology I
- BSC 2011C Biology II
- CHM 2046 Chem. Fund II
- CHM 2048 Chem. Fund III
- COP 3223 C Programming

3. Basic Core requirements (21 hrs)
   COP 3330 Intro to OO Programming
   COP 3502C Computer Science I
   COP 3503C Computer Science II
   STA 2023 Statistical Methods I
   ENC 3241 Technical Report Writing
   CDA 4003C Computer Organization
   COP 3100C Intro to Data Structures
   PHI 3626 Ethics in Science and Technology
   COP 3960 Foundation Exam (PR:COT 3100 & COP 3502)

4. Intermediate Core (6 hrs)
   COP 3402C Systems Software
   COP 3530C Computer Science III

5. Advanced Core (12 hrs)
   Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
   CDA 4150 Comp Architecture
   COP 4210 Discrete Comp Structures
   COP 4020 Programming Languages I
   COP 4600 Operating Systems

6. Restricted Electives (18 hrs)
   4000-5000 level Computer Science courses that 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 internships or cooperative education credits are allowed.
   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.

7. School Exit Requirements
   - Complete an exit survey
   - Computer Competency met by completion of major

8. 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.

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

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

Total Semester Hours Required 120 hours

Related Programs: Computer Engineering, Information Technology, Management Information Systems

Related Minors and Certificates: Information Technology, Computer Science

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

Integrated BS/MS Degree Program
The Computer Science program offers the Integrated BS/MS degree to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

FIRST YEAR
   Fall 16 hrs Spring 13 hrs
   ENC 1101 English Comp I 3 ENC 1102 English Comp II 3
   SPC 1016 Tech Presentations 3 MAC 2312 Calc with Analy Geo II 4
   ENC 3241 Technical Report Writing 3 COP 3223 C Programming 3
   COP 3502 Comp Science I 3 COP 3330 Intro to OOP/Java 3
   STA 2023 Statistical Methods I 3 Social Foundations 3

SECOND YEAR
   Fall 13 hrs Spring 17 hrs
   COP 3402C Systems Software 3 COP 3530 Comp Sci III 3
   COP 3530C Computer Science III 3 COP 3402 Systems Software 3
   CSC 3100C Discrete Structures I 3 SPC 1016 Tech Presentations 3
   COP 3530C Comp Science II 3 STA 2023 Statistical Methods I 3
   COP 3960 Foundation Exam (PR:COT 3100 & COP 3502) 0 hrs
   BSC 2010C Biology I 4 BSC 2011C Biology II 4
   MAC 2311 Calc with Analy Geo I 4 MAC 2312 Calc with Analy Geo II 4
   COP 3502C Computer Science II 3 COP 3223 C Programming 3
   STA 2023 Statistical Methods I 3 STA 2023 Statistical Methods II 3
   COP 3960 Foundation Exam (PR:COT 3100 & COP 3502) 0 hrs
   BSC 3100 Gen Biology I 4 BSC 3100 Gen Biology II 4
   MAC 2311 Calc with Analy Geo I 4 MAC 2312 Calc with Analy Geo II 4
   COP 3530 Comp Sci III 3 COP 3402 Systems Software 3
   COP 3530C Computer Science III 3 COP 3402 Systems Software 3
   COP 4210 Discrete Comp Structures 3 COP 4232 Software Syst Dev 3
   COP 4020 Programming Languages I 3 COP 4232 Software Syst Dev 3
   COP 4600 Operating Systems 3 COP 4232 Software Syst Dev 3
   Free Elective 3 Free Elective 3

THIRD YEAR
   Fall 12 hrs Summer 6 hrs
   COP 3402C Systems Software 3 COP 3530 Comp Sci III 3
   COP 4210 Discrete Struct II 3 COP 3402 Systems Software 3
   COP 4200 Programming Langs 3 COP 4210 Discrete Struct II 3
   ENC 3241 Tech Rept Writing 3 ENC 3241 Tech Rept Writing 3
   PHI 3626 Ethics in Science 3 PHI 3626 Ethics in Science 3
   COP 4202 Programming Languages I 3 COP 4210 Discrete Struct II 3
   COP 4020 Programming Languages I 3 COP 4232 Software Syst Dev 3
   COP 4600 Operating Systems 3 COP 4232 Software Syst Dev 3
   Free Elective 3 Free Elective 3

FOURTH YEAR
   Fall 12 hrs Summer 6 hrs
   COP 4210 Discrete Struct II 3 COP 4810 Topics in CS 3
   COP 4202 Programming Langs 3 COP 4210 Discrete Struct II 3
   ENC 3241 Tech Rept Writing 3 ENC 3241 Tech Rept Writing 3
   PHI 3626 Ethics in Science 3 PHI 3626 Ethics in Science 3
   COP 4600 Operating Systems 3 COP 4210 Discrete Struct II 3
   Free Elective 3 Free Elective 3
   Social Foundations 3 Social Foundations 3
   Cultural/Historical Foundations 3 Cultural/Historical Foundations 3
   Multicultural Elective 3 Multicultural Elective 3

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CRIMINAL JUSTICE (B.A./B.S.)
College of Health and Public Affairs
HPA1 311  407-823-2703
http://www.cohpa.ucf.edu/crim.jus/
Undergraduate Program Coordinator: David Fabianic
E-mail: ojadvise@mail.ucf.edu

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program (36 hrs)
   - Communication Foundations 9 hrs
   - Cultural Historical Foundations 9 hrs
   - Mathematical Foundations 6 hrs
   - Social Foundations 6 hrs

2. Common Program Prerequisites none

3. Core Requirements (18 hrs)
   - CCJ 3024 Criminal Justice System 3 hrs
   - CCJ 3014 Crime in America 3 hrs
   - CJS 3510 Prosecution and Adjudication 3 hrs
   - 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 internships or independent study credit.
   - 15 additional semester hours of supporting courses to be selected from an approved list provided by the Department. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology. The supporting course requirements may also be met by completing a minor from another program approved by the Department with a minimum of 15 semester hours credit.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements (120 hrs)
   - Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level. The foreign language credits may be used toward the 15 hour supporting course requirement.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF

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

Total Semester Hours Required 120 hours

Related Programs: Legal Studies
Related Minors: Legal Studies, Public Administration, Psychology.

Transfer Notes:
- “D” (1.0) grades are not accepted.

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>3</td>
<td>ENC 1102</td>
<td>3</td>
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<tr>
<td>MGF 1106 or MAC 1105</td>
<td>3</td>
<td>CGS 1060C</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012 or SYG 2000 or ANT 2000</td>
<td>3</td>
<td>PSC 1121 or CHM 1020</td>
<td>3</td>
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<tr>
<td>EUH 2000 or HUM 2211</td>
<td>3</td>
<td>PHI 2010 or MUL 2010</td>
<td>3</td>
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<tr>
<td>or AMH 2010, ARH 2050, THE 2000, or REL 2300, PHI 2010, LIT 2110, LIT 2120</td>
<td>Elective</td>
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<tr>
<td>PAF 2102</td>
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Sophomore Year

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<tr>
<th>Fall</th>
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<tr>
<td>SPC 1600</td>
<td>3</td>
<td>CCJ 3024</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2001 or HUM 2230 or AMH 2020</td>
<td>3</td>
<td>CJC 3014</td>
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<tr>
<td>BSC 1005 or MCB 1310</td>
<td>3</td>
<td>CJ Elective</td>
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<td>GLY 1030 or PSC 1121 or ANT 2511</td>
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<td>CJ Elective</td>
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<td>Elective</td>
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<td>POS 2041 or ECO 2013</td>
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Junior Year

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<th>Fall</th>
<th>15/16 hrs</th>
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<th>15/16 hrs</th>
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<tr>
<td>CJE 2510</td>
<td>3</td>
<td>CJE 4014</td>
<td>3</td>
</tr>
<tr>
<td>CJ Elective</td>
<td>3</td>
<td>CCJ 4701</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Elective/Foreign Language</td>
<td>3</td>
<td>CJ Elective</td>
<td>3</td>
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<tr>
<td>CJ Elective</td>
<td>3</td>
<td>Supporting Elective/Foreign Lang.</td>
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<tr>
<td>CJ Elective</td>
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Senior Year

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<th>Spring</th>
<th>9/15 hrs</th>
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<tr>
<td>CJ Elective</td>
<td>3</td>
<td>CCJ Internship or 3/6</td>
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<tr>
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<tr>
<td>Elective</td>
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<td>Elective (if necessary)</td>
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</table>

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., B.S.)

College of Arts and Sciences
School of Film and Digital Media
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu
Director of School: T. Frederick

Head of Digital Media Division: J. Michael Moshell

The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:

- Provide a solid foundation in techniques and theory in one focused area of competence.
- Provide a broad understanding of related disciplines including arts, humanities, and technology.
- Provide extended experience in working in multidisciplinary teams on realistic problems.

The program is administered through the College of Arts and Sciences, but draws on courses throughout the university. It recognizes that there are many combinations of courses which meet the needs of individual students. One concentration area (Tools for Visual Language) leads to a Bachelor of Science degree; the others (Visual Language, Digital Music, Tools for Digital Music, Internet and
Interactive Systems, Writing for Media) lead to a Bachelor of Arts degree.

**Note:** Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a laptop computer. Contact Digital Media or see the website (www.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
   - Select ARH 2050 or MUL 2010
   - If specializing in Visual Language, select ARH 2050.
   - If specializing in Music, select MUL 2010.
   - Take one course from either 1.B.1 or 1.B.2
   - 3 hrs

   **C. Mathematical Foundations**
   - 6 hrs

   **D. Social Foundations**
   - 6 hrs

   **E. Science Foundations**
   - 6 hrs

   If specializing in Tools for Visual Language
   - Select PHY 2048 & 2048L Physics Sci & Engr I and
   - Select a course from E.2 list

2. **Digital Media Core** (24 hrs)

   **DIG 3001** Digital Media Principles
   - 3 hrs

   **GRA 2101C** Introduction to Computer Art
   - 3 hrs

   **Note:** Admission to the following Digital Media core courses requires an 'A' or 'B' in DIG 3001.

   **DIG 3485** Visual Language of Moving Image
   - 3 hrs

   **DIG 3205** Digital Media Production I
   - 3 hrs

   **DIG 3821** Creative Digital Problem Solving
   - 3 hrs

   **DIG 4526C** Digital Media Production II
   - 3 hrs

   **DIG 4XXX** User-Centered Design
   - 3 hrs

   **IDS 3701C** Internet Software Design
   - 3 hrs

3. **Specialization. Choose one of the following 6 areas:**

   **Note:** That each specialization except Internet and Interactive Systems and Writing for Media has an audition, examination, or portfolio requirement which must be met before admission into the Advanced Concentration.

   **Graphic Design**
   - Students interested in Graphic Design should consider a dual major in Digital Media/B.A. specializing in Internet and Interactive Systems, or Visual Language) and Art (B.F.A.). See a Digital Media advisor or www.dm.ucf.edu for guidance.

   **Visual Language (B.A.)** (48 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 - Common Program Prerequisites** (12 hrs)

   **ARH 2050** History of Western Art I
   - 3 hrs

   **ART 2001C** Design Fundamentals-Two Dimensional
   - 3 hrs

   **ART 2200C** Design Fundamentals-Three Dimensional
   - 3 hrs

   **ART 2300C** Drawing Fundamentals I
   - 3 hrs

   **ART 2301C** Drawing Fundamentals II
   - 3 hrs

   **3B: Visual Language - Basic Concentration:** (15 hrs)

   **Note:** Admission to all courses after DIG 3485 is dependent on the student's achieving an 'A' in the Core course DIG 3485- Visual Language.

   **DIG 3355** Artificial Environments & Effects
   - 3 hrs

   **DIG 3362** Artificial Characters
   - 3 hrs

   **DIG 3430** Visual Storytelling & Visual Development
   - 3 hrs

   **DIG 3524** The Production Process
   - 3 hrs

   **DIG 4204** Generating and Manipulating Digital Imagery
   - 3 hrs

   **3C: Visual Language - Advanced Concentration:** (21 hrs)

   **Note:** Admission to the Advanced Concentration is dependent on a portfolio review by faculty.

   Choose three of the following courses:
   - 12 hrs

   **DIG 4206C** New Imagery in Motion Workshop
   - 3 hrs

   **DIG 4359C** Artificial Environment & Effects Workshop
   - 3 hrs

   **DIG 4369C** Artificial Characters Workshop
   - 3 hrs

   **DIG 4451C** Visual Storytelling & Visual Dev Workshop
   - 3 hrs

   **Electives**, Independent Studies or Senior Project
   - 9 hrs

   (*Must be approved by advisor)

   **Tools for Visual Language (B.S.):** (45 hrs)

   This specialization concerns the science and technology behind visual language.

   **3A: Tools for Visual Language - Common Program Prerequisites** (9 hrs)

   **ARH 2050** History of Western Art I or
   - 3 hrs

   **COP 3223** Intro to Programming with C
   - 3 hrs

   **COP 3502C** Computer Science I
   - 3 hrs

   **GRA 2101C** Introduction to Computer Art
   - 3 hrs

   **MAC 2311** Calculus with Analytic Geometry I
   - 3 hrs

   **MAC 2312** Calculus with Analytic Geometry II
   - 3 hrs

   **MAC 2313** Calculus with Analytic Geometry III
   - 3 hrs

   **MUL 2010** Enjoyment of Music
   - 3 hrs

   **PHY 2048 & L** Physics for Engineers & Scientists I & lab
   - 3 hrs

   **3B: Tools for Visual Language - Basic Concentration:** (15 hrs)

   **COP 3330** Object Oriented Programming
   - 3 hrs

   **COP 3503C** Computer Science II
   - 3 hrs

   **COT 3100C** Introduction to Discrete Structures
   - 3 hrs

   **COT 3960** Foundation Exam
   - 0 hrs

   **DIG 3524** The Production Process
   - 3 hrs

   **DIG 4204** Generating and Manipulating Digital Imagery
   - 3 hrs

   **3C: Tools for Visual Language - Advanced Concentration:** (21 hrs)

   **Note:** Admission to the Advanced Concentration is dependent on a portfolio review by faculty, and on passing the Foundation Exam.

   **COP 3503C** Computer Science III
   - 3 hrs

   **Select two of:**
   - 6 hrs

   **DIG 4326C** Geometrical Modeling Workshop
   - 3 hrs

   **DIG 4325C** Look Modeling Workshop
   - 3 hrs

   **IDS 4768C** Production Software Workshop
   - 3 hrs

   **Electives**, Independent Studies or Senior Project
   - 10 hrs

   (*Must be approved by advisor)

   **Writing for Media (B.A.):** (30 hrs)

   **3A: Writing for Media - Common Program Prerequisites:** (0 hrs)

   **COP 2500C** Concepts in Computer Science
   - 3 hrs

   **ENC 1101** Composition I
   - 3 hrs

   **ENC 1102** Composition II
   - 3 hrs

   **GRA 2101C** Introduction to Computer Art
   - 3 hrs

   **MAC 1105** College Algebra
   - 3 hrs

   **Select one course**
   - 3 hrs

   **ARH 2050** History of Western Art I
   - 3 hrs

   **ARH 2051** History of Western Art II
   - 3 hrs

   **MUL 2010** Enjoyment of Music
   - 3 hrs

   **3B: Writing for Media - Basic Concentration:** (15 hrs)

   **ENG 2014** Theories & Tech of Lit. Study
   - 3 hrs

   **ENC 3211** Theory & Practice Tech Writing
   - 3 hrs

   **ENC 3311** Advanced Expository Writing
   - 3 hrs

   **ENC 4414** Studies in Hypertext
   - 3 hrs

   **ENC 4415** Digital Rhetoric & Dialogic
   - 3 hrs

   **3C: Writing for Media - Advanced Concentration:** (15 hrs)

   Choose five of the following courses:

   **ENC 3510** Magazine Writing
   - 3 hrs

   **ENC 4215** Techniques of Tech. Publication
   - 3 hrs

   **ENC 4218** Visual Elements in Documentation
   - 3 hrs

   **ENC 4265** Writing for Computer Industry
   - 3 hrs

   **ENC 4269** Tech Writing Style
   - 3 hrs

   **ENC 4293** Technical Documentation I
   - 3 hrs
ENC 4312  Theory & Prac Persuasive Writing
ENG 4114  Literature and Film

**Digital Music (B.A.):** (44 hrs)

This specialization is designed for those with substantial prior musical experience.

### 3A: Digital Music - Common Program Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 2500C</td>
<td>Concepts in Computer Science</td>
<td>GEP</td>
</tr>
<tr>
<td>GRA 2101C</td>
<td>Introduction to Computer Art</td>
<td>Core</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>GEP</td>
</tr>
<tr>
<td>MUL 2010</td>
<td>Enjoyment of Music</td>
<td>GEP</td>
</tr>
<tr>
<td>MUT 1111</td>
<td>Music Theory 1A</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 1112</td>
<td>Music Theory 1B</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 1241</td>
<td>Ear Training/Sight Singing IA</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUT 1242</td>
<td>Ear Training/ Sight Singing IB</td>
<td>1 hr</td>
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<tr>
<td>MUT 2116</td>
<td>Music Theory IIA</td>
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</tr>
<tr>
<td>MUT 2117</td>
<td>Music Theory IIB</td>
<td>2 hrs</td>
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### 3B: Digital Music - Basic Concentration:

**Note:** An audition is required for these courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUC 3311</td>
<td>MIDI Sequencing I</td>
<td>3 hrs</td>
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<tr>
<td>MUS 1010</td>
<td>Music Forum (four semesters)</td>
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<tr>
<td>MUN XXXX</td>
<td>Ensembles (four semesters)</td>
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<tr>
<td>MVB/MKM/MP/MVS</td>
<td>Performance (four semesters)</td>
<td>8 hrs</td>
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<tr>
<td>MUC 1101C</td>
<td>Composition I</td>
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<tr>
<td>MUC 2104C</td>
<td>Composition II</td>
<td>2 hrs</td>
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### 3C: Digital Music - Advanced Concentration:

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<th>Title</th>
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<tbody>
<tr>
<td>FIL 4294</td>
<td>Sound Design III</td>
<td>3 hrs</td>
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<tr>
<td>FIL 4293C</td>
<td>Sound Design II</td>
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<tr>
<td>MUC 4313</td>
<td>MIDI Sequencing III</td>
<td>3 hrs</td>
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<td>MUC 4441</td>
<td>MIDI Sequencing II</td>
<td>3 hrs</td>
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<tr>
<td>MUC 4612C</td>
<td>Film/Videowork Composition</td>
<td>3 hrs</td>
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</table>

**Tools for Digital Music (B.A.):**

This specialization is designed for those who need to acquire a basic background in music.

### 3A: Tools for Digital Music - Common Program Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>COP 2500C</td>
<td>Concepts in Computer Science</td>
<td>GEP</td>
</tr>
<tr>
<td>GRA 2101C</td>
<td>Introduction to Computer Art</td>
<td>Core</td>
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<tr>
<td>MUL 2010</td>
<td>Enjoyment of Music</td>
<td>GEP</td>
</tr>
<tr>
<td>MUT 1111</td>
<td>Music Theory 1A</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 1112</td>
<td>Music Theory 1B</td>
<td>2 hrs</td>
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<tr>
<td>MUT 1241</td>
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### 3B: Tools for Digital Music - Basic Concentration:

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<tbody>
<tr>
<td>MUC 1101C</td>
<td>Composition I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUC 2104C</td>
<td>Composition II</td>
<td>2 hrs</td>
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<tr>
<td>MUE 2440</td>
<td>String Techniques</td>
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<td>MUE 2470</td>
<td>Percussion Techniques</td>
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<tr>
<td>MUN 3443</td>
<td>Percussion Ensemble</td>
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<td>MUN 3483</td>
<td>String Ensemble</td>
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<tr>
<td>MUS 2360C</td>
<td>Introduction to Music Technology</td>
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<td>MVK 1111</td>
<td>Class Piano I</td>
<td>1 hr</td>
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<tr>
<td>MVK 2121</td>
<td>Class Piano II</td>
<td>1 hr</td>
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<tr>
<td>MVK 3131</td>
<td>Class Piano III</td>
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### 3C: Tools for Digital Music - Advanced Concentration:

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<tr>
<td>FIL 3927</td>
<td>Sound Design I</td>
<td>3 hrs</td>
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<tr>
<td>FIL 4293C</td>
<td>Sound Design II</td>
<td>3 hrs</td>
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<tr>
<td>MUC 4313</td>
<td>MIDI Sequencing III</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUC 4441</td>
<td>MIDI Sequencing II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUC 4612C</td>
<td>Film/Videowork Composition</td>
<td>3 hrs</td>
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<tr>
<td>MUS 4543C</td>
<td>Digital Music Project</td>
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**Internet and Interactive Systems (B.A.):** (42 hrs)

### 3A: Internet - Common Program Prerequisites:

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<th>Title</th>
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<td>ART 2201C</td>
<td>Design Fundamentals-2D</td>
<td>3 hrs</td>
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<tr>
<td>DIG 3286C*</td>
<td>Assembling Digital Media</td>
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<tr>
<td>GRA 2101C</td>
<td>Introduction to Computer Art</td>
<td>Core</td>
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<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>GEP</td>
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<td>Select one course</td>
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<tr>
<td>ARH 2050</td>
<td>History of Western Art I</td>
<td></td>
</tr>
<tr>
<td>ARH 2051</td>
<td>History of Western Art II</td>
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<tr>
<td>MUL 2010</td>
<td>Enjoyment of Music</td>
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* See transfer notes for possible substitutes.

### 3B: Internet - Basic Concentration:

<table>
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<th>Title</th>
<th>Hours</th>
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<tr>
<td>COP 2500C</td>
<td>Concepts in Computer Science</td>
<td>GEP</td>
</tr>
<tr>
<td>DIG 3286C*</td>
<td>Assembling Digital Media</td>
<td>3 hrs</td>
</tr>
<tr>
<td>DIG 4716L</td>
<td>Internet Interaction</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 4415</td>
<td>Digital Rhetoric &amp; Dialectic</td>
<td>3 hrs</td>
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<tr>
<td>MUS 2360C</td>
<td>Intro to Music Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 3626</td>
<td>Adv Ethics in Science &amp; Technology</td>
<td>3 hrs</td>
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### 3C: Internet - Advanced Concentration:

**Select any six of the following courses**

<table>
<thead>
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<tbody>
<tr>
<td>DIG 3315C</td>
<td>Digital Imagery</td>
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<tr>
<td>DIG 3450C</td>
<td>Interactive Performance I</td>
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<td>DIG 3485</td>
<td>Visual Language of the Moving Image</td>
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</tr>
<tr>
<td>DIG 3685</td>
<td>Converging Media</td>
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<td>DIG 4324</td>
<td>Modeling for Realtime Systems II</td>
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<td>DIG 4524L</td>
<td>Digital Media Project 1 (Subject to acceptance)</td>
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<td>DIG 4640</td>
<td>Autonomous Media</td>
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<td>DIG 4641</td>
<td>Creative Digital Devices</td>
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<td>DIG 4715C</td>
<td>Game Design</td>
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<td>Game Engines</td>
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<td>DIG 4780</td>
<td>Modeling for Realtime Graphics</td>
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<td>DIG 4921C</td>
<td>Media for E-Commerce I</td>
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<td>DIG 4922</td>
<td>Media for E-Commerce II</td>
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<td>EXP 5256</td>
<td>Human Factors I</td>
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<td>FIL 3292</td>
<td>Sound Design I</td>
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<td>FIL 4293C</td>
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<td>IDS 4703</td>
<td>Digital Media Project 2 (Subject to acceptance)</td>
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<tr>
<td>IDS 4728</td>
<td>UNIX for Graphic Production</td>
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**Related Minors:** Spaces Media, Cinematography, Digital Imaging, Digital Media, Digital Media Project 1 or IDS 4703 Digital Media Project 2, subject to acceptance in the project.

**Related Programs:** Art-Studio, Computer Information Technology, Computer Science, Digital Media, English-Technical Writing, Film, Music

**Transfer Notes:**
- Grades less than "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.

**Acceptable substitutes** for Common Program Prerequisites if taken prior to transferring to UCF:
- COP 3502C may use any COP course. However, COP 3502C is...
UCAST Degree Programs

a prerequisite for all Computer Science courses and still must be taken.
- DIG 3001 (Digital Media Principles) may use DIG 2000 (Introduction to Digital Media)
- ART XXXX – Intro to Computer Graphics/Art or Computer Graphics for Artists may use GRA 2101C or GRA 2101C
- ART XXXX - Design Fundamentals I may use ART 2201C or DIG 3485
- ART XXXX - Video Production and Editing may use IDS 3782C, DIG 3286C, FIL 2224C, or RTV 3283C

EARLY CHILDHOOD EDUCATION
(PRE-KINDERGARTEN THROUGH GRADE 3) (B.S.)
College of Education
Department of Child, Family, and Community Sciences, ED 209
http://pegasus.cc.ucf.edu/~eceucf
Program Coordinator: Lynn Hartle
ED 206-K, 407-823-4163
E-mail: lhartle@mail.ucf.edu

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses
- Meet any special departmental requirements

Degree Requirements:
- Students should see their assigned advisor prior to registering for classes
- Students must select an additional six hours in courses in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

1. UCF General Education Program (36 hrs)
A. Communication Foundations (9 hrs)
   ENC 1101 Composition I 3 hrs
   ENC 1102 Composition II 3 hrs
   SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations* (9 hrs)
   AMH 2010 U.S. History 1492-1877 3 hrs
   AMH 2020 U.S. History 1877-Present 3 hrs
   PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundations* (6 hrs)
   MGF 1106 Finite Mathematics 3 hrs
   Select one:
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics 3 hrs
D. Social Foundations (6 hrs)
   POS 2041 American National Government 3 hrs
   PSY 2012 General Psychology 3 hrs
E. Science Foundations (6 hrs)
   Select one:
   PSC 1121 Physical Science 3 hrs
   AMH 2010 U.S. History 1492-1877 or
   AMH 2020 U.S. History 1877-Present or
   POS 2041 American National Government or
   PSY 2012 General Psychology or
   STA 2014C Principles of Statistics
   STA 2101C Principles of Statistics 3 hrs

2. Common Program Prerequisites (25 hrs)
A. Communications
   ENC 1101 Composition I 3 hrs
   ENC 1102 Composition II 3 hrs
   SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Humanities
   PHI 2010 Introduction to Philosophy 3 hrs
   Select one:
   ARH 2050 The History of Art I or
   ARH 2051 The History of Art II or
   MUL 2010 Enjoyment of Music or
   THE 2000 Theatre Survey or
   FIL 2400 History of Motion Pictures 3 hrs
C. Mathematics
   MAC 1105 College Algebra 3 hrs
   MGF 1206 Finite Mathematics 3 hrs
   One of the following (per GEP) 3 hrs
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics (12 hrs)
D. Social Science/History
   AMH 2010 U.S. History 1492-1877 3 hrs
   AMH 1102 World History to 1500 3 hrs
   POS 2041 American National Government 3 hrs
   PSY 2012 General Psychology 3 hrs
E. Science
   PSC 1121 Physical Science 3 hrs
   One of the following (per GEP) 3 hrs
   ANT 2511 The Human Species or
   BSC 1005 Biological Principles 3 hrs
   Select one:
   ED 3740 Foundations of ECE 3 hrs
   EDF 3120 Observing Child Growth & Development 3 hrs
   EEC 3268 Play Development 3 hrs
   TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
   Students in Schools
   Summer Offered summer semesters. Must be taken prior to Internship II
   EEX 4571 Parent Involvement 3 hrs
   EEC 4731 Health, Safety, & Nutrition 3 hrs
   Semester II (15 hrs)
   EDF 3307 Learning Environments & Guidance 3 hrs
   EEX 4571 Parent Involvement 3 hrs
   TSL 4141 Issues in Second Language Acquisition 3 hrs
   RED 3310 Emergent Literacy 3 hrs
   RED 3012 Basic Foundations of Reading 3 hrs
   Summer Semester II (12 hrs)
   RED 4311 Development of Literacy 3 hrs
   MAE 4000 Exploring Mathematics 3 hrs
   ECE 4203 Teaching Science & Technology 3 hrs
   EEC 3940 Integration Internship I 3 hrs
   Semester IV (12 hrs)
   EEC 4943 Student Teaching (Internship II) 12 hrs
5. Internships
Internships comprise a critical part of the Early Childhood Education program. Therefore, it is crucial that the students are aware of the expectations and requirements of internship placements. For detailed information including requirements and application deadlines see the Undergraduate Catalog, College of Education, Office of Clinical Experiences.
6. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination prior to graduation.

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

9. Total Semester Hours Required 127 hours
At the time this catalog went to press, actions were underway to complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Recommended Four-Year Sequence of Courses
Freshman Year
Fall (12 hrs)
EDF 2005 3 hrs
ENC 1101 3 hrs
MGF 1106 3 hrs
PSY 2012 3 hrs

Spring (16 hrs)
EDG 2701 3 hrs
ENC 1102 3 hrs
MAC 1105 3 hrs
PHI 2101 3 hrs
PSC 1121 3 hrs
+ lab 1 hr

Summer (6 hrs)
PSC 2041 3 hrs
SPC 1600 3 hrs

Sophomore Year
Fall (15 hrs)
AMH 2010 3 hrs
BSC 1005 3 hrs
EME 2040 3 hrs
ARH 2051 or MUL 2010 or THE 2000 or FIL 2400
STA 2101C 3 hrs

Spring (12 hrs)
AMH 2100 3 hrs
AST 2002 3 hrs
Arts & Sci elec 3 hrs
Arts & Sci elec 3 hrs

Summer (6 hrs)
ARE 2011 3 hrs
MUE 2211 3 hrs

Junior Year
Fall (15 hrs)
See Section 4, Semester I above

Spring (15 hrs)
See Section 4, Semester II above

Summer (6 hrs)
See Section 4, Summer Semester

Senior Year
Fall (12 hrs)
See Section 4, Semester III above

Spring (12 hrs)
See Section 4, Semester IV above

ECONOMICS (B.A.)
College of Business Administration
Department of Economics, BA2 305, 407-823-3266
http://www.bus.ucf.edu/economics
E-mail: rpennington@mail.ucf.edu
BA2 303B, 407-823-2640

The Bachelor of Arts in Economics is designed for students with a liberal arts background, and will provide them with a strong foundation for future graduate studies or as training for a career in politics, teaching, research, social services and a variety of other areas. Successful completion of this program leads to the Bachelor of Arts degree with a major in Economics.

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a College of Business Administration advisor
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
A. Communication Foundations
B. Cultural and Historical Foundations
C. Mathematical Foundations
D. Social Foundations

2. Common Program Prerequisites (3 hrs)
ECO 2013 Macroeconomics
ECO 2023 Microeconomics

3. Core requirements (15 hrs)
ECO 3101 Intermediate Price Theory
ECO 3203 Aggregate Eco Conditions Anal
ECO 3411 Quantitative Business Tools II
ECO 4451 Research Methods in Economics

4. Upper Division Restricted Electives (18 hrs)
All economics majors will be required to take six (6) electives by choosing one of the following three options:
A. Standard Option – Select any six (6) 3000-4000 level economics courses other than those required above.
B. International Option: Select any six (6) courses from the following list:
ECO 3703 International Economics
ECO 3723 International Commercial Policy
ECO 4701 The Global Economy
ECO 4003 Comparative Economic Systems
ECO 4013 Economic Development
ECO 4231 The Japanese Economy
ECO 4303 Economics of European Integration
ECO 4204 Economics of the Pacific Rim
ECO 4210 The Chinese Economy
ECO 4424H Economic Development of Mexico and Central America
ECO 4941 Economics Internship*

* Requires departmental approval

C. Multi-disciplinary Option – Select any four (4) economics courses from the standard option of restricted electives PLUS any two courses from any one emphasis in consultation with faculty advisor.

Emphasis 1 Political Economy
Emphasis 2 Area Studies
Emphasis 3 International Business
Emphasis 4 Human Resources
Emphasis 5 Legal Studies
Emphasis 6 Financial Economics

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5. Required Minor (18 hrs min)
Completion of a minor in one of the following:
- Digital Media, Computer Science, History, Mathematics, Statistics, the Social and Behavioral Sciences, or Technical Writing.

6. Departmental Exit Requirements
- Students majoring in Economics must earn a grade of “C” (2.0) or better in each ECO, ECP, ECS course and in each course applied towards the major as well as a 2.0 overall average in the major.
- Computer Competency met by Research Methods course

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of 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 residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
Related Programs: Economics BSBA
Related Minors: Computer Science, Economics, Mathematics, Political Science, Psychology, Sociology, Statistics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF
- ECO 2013 and 2023 are prerequisites for all subsequent economics courses and will need to be taken.

ECONOMICS (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu/economics
R. Pennington; 407-823-3266, rpennington@bus.ucf.edu

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      - Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
   SelectMAC 1105 College Algebra
   Select CGS 2100C Computer Fundamentals for Business 3 hrs
   D. Social Foundations
   Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
   Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs

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

3. Common Body of Knowledge (30 hrs)
   First Semester in the College of Business Administration:
   GEB 3031 Cornerstone 6 hrs
   GEB 3356 Introduction to International Business 3 hrs
   First or subsequent semesters depending on major:
   BUL 3130 Legal & Ethical Environ. of Business 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   FIN 3403 Business Finance 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   ISM 3011 Essentials of Management Information Systems 3 hrs
   MAR 3023 Marketing 3 hrs
   Last Semester:
   MAN 4720 Strategic Management 3 hrs

4. Special College and/or 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 course.
   - Final exams will be given during Exam Week.
   - Students must have at least a 2.0 GPA in the COB.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
   - Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - Students majoring in 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.

5. Required Major Courses (9 hrs)
   ECO 3101 Intermediate Price Theory 3 hrs
   ECO 3203 Aggregate Econ Conditions Analysis 3 hrs
   ECO 4451 Research Methods in Economics 3 hrs

6. Upper Division Restricted Electives (18 hrs)
   All economics majors will be required to take six (6) electives by choosing one of the following three options:
   A. Standard Option - Select any six (6) 3000-4000 level economics courses other than the three required above.
   B. International Option - Select any six (6) courses from the following list:
      ECO 3703 International Economics 3 hrs
      ECO 3723 International Commercial Policy 3 hrs
      ECO 4701 The Global Economy 3 hrs
      ECS 4003 Comparative Economic Systems 3 hrs
      ECS 4013 Economic Development 3 hrs
      ECS 4231 The Japanese Economy 3 hrs
      ECS 4204 The Economics of the Pacific Rim 3 hrs
      ECS 4210 The Chinese Economy 3 hrs
      ECS 4303 Economics of European Integration 3 hrs
      ECS 4424H Economic Development of Mexico and Central America 3 hrs
      *ECO 4941 Economics Internship 3 hrs
      *Requires special approval.
   C. Multi-Disciplinary Option - Select any four (4) economics courses from the standard option of restricted electives PLUS any two courses from any one emphasis in consultation with faculty advisor.
      Emphasis 1 Political Economy
      Emphasis 2 Area Studies
      Emphasis 3 International Business
      Emphasis 4 Human Resources
      Emphasis 5 Legal Studies
      Emphasis 6 Financial Economics
      Emphasis 7 Quantitative Methods
Four Year Plan of Study - Economics

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.

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

9. Electives*** (variable)
   Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes
   ■ Common Program Prerequisites for the State University System 
     for College of Business Administration programs include:
     Financial Accounting, Managerial Accounting, Macroeconomics, 
     Microeconomics, Calculus, Statistics, and a relevant computer 
     class. At UCF Business, students who have completed the cal-
     culus and statistics class will be waived from Business 
     Quantitative Tools I. Students who have completed either the cal-
     culus or the statistics, but not both, must take Quantitative Tools 
     I.
   ■ Subject to the general grade and residence requirements, credit 
     will be granted for transferred course work equivalent to that 
     required in the UCF Business program. Only grades of "C" (2.0) 
     or higher transfer into the program and students must have a "C" 
     (2.0) or better in each common program prerequisites class.
   ■ ACG X001 and X011 will substitute for ACG 2021 at UCF.
   ■ Florida Public Community College students are advised to com-
     plete the Associate of Arts degree, to include the general educa-
     tion requirements, the common program prerequisites for the 
     SUS system, and college algebra.
   ■ Professional courses should not be taken at a community/junior 
     college in the areas of Management, Marketing, Real Estate, or 
     Finance. These professional areas are third and fourth year (jun-
     or, senior) course areas and cannot be satisfied with freshman, 
     sophomore level courses.
   ■ A minimum of 12 semester hours must be completed at UCF 
     within each individual major.
   ■ Orientation and advising are two of the most valuable tools that 
     a student can make use of when transferring to UCF. Be sure 
     that you take advantage of both.

Four Year Plan of Study - Economics

Freshman 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 ***Elective 3
   ***Elective 3***Elective 3
   CGS 2100C* 3
   Must complete 9 hours in a summer semester

Sophomore 1st Term 15 hrs 2nd Term 15 hrs
   ECO 2023* 3 ECO 2013* 3
   ACG 2021* 3 ACG 2071* 3
   Science 3 Science 3
   Psy/Soc/Ant 3***Elective 3
   ***Elective 3 ECO 3401* 3
   * "C" (2.0) or better grade required in each class

Junior 1st Term 15 hrs 2nd Term 15 hrs
   GEB 3031 3 ECO 3411 3
   GEB 3356 3 ECO 3725 3
   MAR 3023 3 ECO 3203 3
   ECO 3101 3 FIN 3403 3
   ECO Elective 3

Senior 1st Term 15 hrs 2nd Term 15 hrs
   ECO Elective 3 MAN 4720 3
   ISM 3011 3 ***Elective 3
   BUL 3130 3 ECO Elective 3
   ECO Elective 3 ECO 4451 3
   ECO Elective 3 ECO Elective 3
   ***General electives as required to reach 120 semester hours.

ECONOMICS (B.A./M.A.A.E. and B.S.B.A./M.A.A.E.)
Accelerated Undergraduate/Graduate Program
Note: For detailed information about these programs, see 
descriptions in the “Accelerated Undergraduate/Graduate 
Program” section of this Undergraduate Catalog.

ELECTRICAL ENGINEERING (B.S.E.E.)
College of Engineering and Computer Science
Department of Electrical and Computer Engineering,
ENGR 408, 407-823-2786, Fax: 407-823-5835,
http://www.ee.ucf.edu
K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before regis-
tering for their first semester at UCF. Orientation includes engineer-
ing academic advisement and registration for first-semester UCF 
classes; see also the section, Orientation, found elsewhere in this 
catalog.

Degree Requirements
   ■ Each engineering student is assigned a qualified engineering 
     academic advisor in the department of his/her major. Each stu-
     dent 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 (38 hrs)
   Engineering Students
   The UCF General Education Program (GEP) is described in the sec-
   tion, General Education Program, found elsewhere in this catalog. 
   Engineering students should closely study the requirements of the 
   UCF GEP and the allowable substitutions detailed in paragraphs A.
   through E. below to minimize excess hours. Students transferring to 
   UCF from within the Florida State University/Community College 
   Systems should complete the GEP and the Common Program 
   Prerequisites before transferring.
   A. Communication Foundations 9 hrs
      1. Take ENC 1101
      2. Take ENC 1102
      3. Prefer SPC 1016
   B. Cultural and Historical Foundations 9 hrs
      1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).
      Note: College algebra and trigonometry are prerequisites for Calculus I. See 
      the course descriptions.
      2. Take STA 3032, (3 hrs).
      Note: Calculus II is the prerequisite for this course.
   C. Mathematical Foundations 7 hrs
      1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).
         Note: College algebra and trigonometry are prerequisites for Calculus I. See 
         the course descriptions.
      2. Take STA 3032, (3 hrs).
      Note: Calculus II is the prerequisite for this course.
   D. Social Foundations 6 hrs
      1. Take ECO 2013 or ECO 2023.
   E. Science Foundations 7 hrs
      1. Take PHY 2048/48L

2. 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 avail-
   able at other Florida post-secondary schools and may be transferred 
directly to UCF programs.
   Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-
   requirements, as do ENC 1101, ENC 1102, the Humanities courses, 
   and the Social Science courses.
   CHS 1440 Fundamentals of Chemistry for Eng 4 hrs
       (CHM 2045C/45L will substitute)
   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
University of Central Florida

UCF Degree Programs

EEL 4914 Senior Design I 3 hrs
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: 128 hrs
Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).
Related Minors: none
Transfer Notes:
- Courses taken from Community Colleges do not substitute for

Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

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

Electrical Engineering - 128 semester hours required

FIRST YEAR
Fall 15 hrs 1 Spring 15 hrs 1
EGN 1006C Intro to Engr 1 EGN 1007C Eng Conc & Math 1
*ENC 1101 English Comp I 3 *ENC 1102 English Comp II 3
*CHS 1440 Chem for Engrs 4 *SPC 1016 Tech Presentations 3
*MAC 2311 Calc with Analytic Geo I 4 *MAC 2312 Calc with Analytic Geo II 4
*PHY 2048/L Phys Eng I w/lab 4

Summer 11 hrs 1
* Cult & Hist Foundations 1a 3
*MAC 2313 Calc with Analytic Geo III 4
*PHY 2049 Phys for Engr/Sr II 3
*PHY 2049L Phys Lab En/Sr II 1

SECOND YEAR
Fall 15 hrs 1 Spring 15 hrs 1
*MAP 2302 Diff Equations 3 *EGN 3300 Engr Anal-Statics 3
*PHY 2041 Phys for Engr/Sr III 3 *PHY 3101 Phys for Engr/Sr III 3
*Science Foundations 2 3 EGN 3321 Eng Anal-Dynamics 3
*Social Foundations 1 3 EEL 3342C Intro to Dig Circ/Sy 3
EGN 3420 Engineering Anal2 3 EEL 3304 Electrical Networks 3
EGN 3358 Ther-Flds-Ht Transfer

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

THIRD YEAR
Fall 14 hrs Spring 13 hrs
EGN 3306 Semicond Devices I 3 EEL 3307C Electronics I 4
STA 3032 Prob & Stats Engrs 3 EEL 3470 Electromagnetic Fields 3
EEL 4767C Computer System Design I 4 EEL 3123C Networks and Systems 4
EGN 3310 Engr Anal-Statics 3 EEL 3408C Electronics II 4
EGN 3310 Eng Anal-Statics or EEL 4750 Digital Signal Processing Fund. 3
EGN 3358 Ther-Flds-Ht Transfer

FOURTH YEAR
Fall 14 hrs Spring 13 hrs
EEL 3522 Analog & Dig Comm 4 Approved Technical Elective 3
EEL 3470 Electromagnetic Fields 3 Approved Technical Elective 3
EEL 4308C Electronics II 4 Approved Technical Elective 4
EEL 4914 Senior Design I 3 EEL 4815L Senior Design II 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. Assumed knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.

Integrated BS/MS Degree Program
The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.
ELECTRICAL ENGINEERING - MICROELECTRONICS
CONCENTRATION (B.S.E.E.)

College of Engineering and Computer Science
Department of Electrical and Computer Engineering,
ENGR 408, 407-823-2786, Fax: 407-823-5835,
http://www.ee.ucf.edu
K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before regis-
tering for their first semester at UCF. Orientation includes engineering
academic advisement and registration for first-semester UCF classes.

Degree Requirements
- Each engineering student is assigned a qualified engineering
  academic advisor in the department of his/her major. Each stu-
  dent 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 cat-
elog. Engineering students should closely study the requirements of
the UCF GEP and the allowable substitutions detailed in paragraphs
A. through E. below to minimize excess hours. Students transferring
to UCF from within the Florida State University/Community College
Systems should complete the GEP and the Common Program
Prerequisites before transferring.

   A. Communication Foundations
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer SPC 1016
   B. Cultural and Historical Foundations
   1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).
   Note: College algebra and trigonometry are prerequisites for Calculus I.
   See the course descriptions.
   2. Take STA 3023, (3 hrs)
   Note: Calculus II is the prerequisite for this course.
   C. Mathematical Foundations
   1. Take EGN 1006C, Intro to the Engineering Profession
   2. Take EGN 1007C, Engineering Concepts & Methods
   3. MAP 2302, Differential Equations
   D. Social Foundations
   1. Take ENC 1101, Composition I
   2. Take ENC 1102, Composition II
   3. Take PHY 2048L, Physics for Engineers & Scientists I
   E. Science Foundations
   1. Take PHY 2048L

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.
   CHS 1440 Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)
   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 2048L Physics for Engineers & Scientists I* GEP
   PHY 2049L Physics for Engineers & Scientists II* 4 hrs
   ENC 1101 Composition I GEP
   ENC 1102 Composition II GEP
   Humanities Courses
   Social Science Courses
   Humanities or Social Sciences

3. Courses Required for the Engineering Core
   The College of Engineering and Computer Science requires all engi-
   neering 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 and normally are award-
ed grades of I, S, or U.
   EGN 1006C Intro to the Engineering Profession 1 hr
   EGN 1007C Engineering Concepts & Methods 1 hr
   EGN 3310 Engineering Analysis - Statics 3 hrs
   EGN 3321 Engineering Analysis - Dynamics or
   EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs
   EGE 3420 Engineering Analysis 3 hrs
   STA 3022 Probability & Statistics for Engineers GEP
   PHY 3101 Physics for Engineers & Scientists III 3 hrs

4. Courses Required for the Major
   EEL 3304 Electrical Networks 3 hrs
   EEL 3123C Networks and Systems 4 hrs
   EEL 3306 Semiconductor Devices I 3 hrs
   EEL 3307C Electronics I 4 hrs
   EEL 3342C Intro to Digital Circuits & Systems 3 hrs
   EEL 3470 Electromagnetic Fields 3 hrs
   EEL 3552C Analog & Digital Communications 4 hrs
   EEL 3657 Linear Control Systems 3 hrs
   EEL 3801C Intro to Computer Engineering 3 hrs
   EEL 4309C Electronics II 4 hrs
   EEL 4750 Digital Signal Processing Fund. 3 hrs
   EEL 4767C Computer System Design I 4 hrs

5. Approved Microelectronics Technical Electives
   These technical electives are available in the BSEE program to address
   specific student interests in a variety of technical areas. For those stu-
   dents with a declared interest in microelectronics, a concentration in
   this area is available by taking three microelectronics technical
electives in addition to the required microelectronics courses listed in
3. above.

6. Departmental Graduation Requirements
   - 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
   - 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.

Total Semester Hours Required: 128 hours

Related Programs:
- Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).
- Related Minors: none
- Transfer Notes:
- Courses taken from Community Colleges do not substitute for
  Upper Division Courses
- Courses transferred must be formally evaluated for equivalency
  credit. The student must provide all supporting information with
  his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those stu-
dents who plan on completing their degree in four years. All engi-
neering students should meet with their faculty advisor to develop
and maintain an appropriate plan of study.

Electrical Engineering - Microelectronics Concentration 128 semester hours
required

FIRST YEAR Fall
EGN 1006C Intro to Engr 1 hr
EGN 1007C Eng Conc & Meth 1 hr
*ENC 1101 English Comp I 3 hrs

Spring
EGN 1006C Intro to Engr 1 hr
EGN 1007C Eng Conc & Meth 1 hr
*ENC 1102 English Comp II 3 hrs
University of Central Florida

UCF Degree Programs

**Fall** 14 hrs
- PHY 2048L Phys for Engrs I w/lab 4
- EEL 3123C Networks and Systems 4
- EEL 4767C Computer System Design I 4
- STA 3032 Probability & Statistics Engrs 3
- MAC 2311 Calculus with Analytic Geometry I* 4

**Spring** 13 hrs
- MAC 2312 Calculus with Analytic Geometry II* 4
- PHY 3407 Phys for Electrical Eng 3
- MAC 2313 Calculus with Analytic Geometry III 4
- EEL 3450 3
- STA 3023 Probability & Statistics Engrs 3

**SECOND YEAR**

**Fall** 15 hrs
- MAC 2302 Differential Equations* 3
- PHY 3407 Phys for Electrical Eng 3
- MAC 2311 Calculus with Analytic Geometry I* 4
- ENC 1104 Oral Communication 3
- PHY 2048L Phys for Engrs I w/lab 4

**Spring** 15 hrs
- PHY 2049L Phys for Engrs II 3
- MAC 2312 Calculus with Analytic Geometry II* 4
- MAC 2313 Calculus with Analytic Geometry III 4
- MAC 2301 Analytical Geometry 3
- PHY 4370 Electromagnetic Fields 3

**SUMMER** 6 hrs
- MAC 2302 Differential Equations* 3
- PHY 2049L Phys for Engrs II 3
- ECO 2023 Microeconomics 3
- ECON 2023 Microeconomics 3

**THIRD YEAR**

**Fall** 14 hrs
- EEL 3306 Semiconduct Devices I 3
- STA 3023 Prob & Stats Engrs 3
- EEL 4767C Computer System Design I 3
- EEL 3312C Networks and Systems 4
- EEL 4914 Senior Design I 3

**Spring** 13 hrs
- EEL 3307C Electronics I 4
- EEL 3657 Linear Control Systems 3
- EEL 4750 Digital Signal Proc Fund 3
- EEL 3321 Eng Anal Dynamics 3
- EGN 3358 Therm-Fluids-Htr Transfer 3

**FOURTH YEAR**

**Fall** 14 hrs
- EEL 3552C Analog & Digital Comm 4
- EEL 4309C Electronics II 4
- EEL 4915L Senior Design II 3
- EEL 4914 Senior Design I 3
- EGN 3358 Ther-Mechanics 3

**Spring** 12/13 hrs
- EEL 3307C Electronics I 4
- EEL 3657 Linear Control Systems 3
- EEL 4750 Digital Signal Processing Fund 3
- EGN 3321 Eng Anal Dynamics 3
- EGN 3358 Therm-Fluids-Htr Transfer 3

**Notes:**
1. Courses marked with an asterisk (*) are also available from most Community Colleges, which 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 GE requirements elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred). 3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

ELECTRICAL ENGINEERING - WIRELESS COMMUNICATION CONCENTRATION (B.S.E.E.)


K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

Admission Requirements:
- All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.
- Degree Requirements
  - Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students

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

A. Communication Foundations
- Take ENC 1101
- Take ENC 1102

B. Cultural and Historical Foundations
- Take MAC 2311, Calculus with Analytic Geometry I (4 hrs).
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
- Take STA 3032 (3 hrs)
Note: Calculus II is the prerequisite for this course.

C. Mathematical Foundations
- Take ECO 2023 or ECO 2024

D. Social Foundations
- Take PHY 2048/48L
- Take MAC 2311 and PHY 2048/48L also satisfy UCF GEP subrequirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

E. Electives:
- CHS 1140 Fundamentals of Chemistry for Engineers (CM 2045/45L will substitute) 3 hrs
- MAC 2311 Calculus with Analytic Geometry I* 4 hrs
- MAC 2312 Calculus with Analytic Geometry II* 4 hrs
- MAC 2313 Calculus with Analytic Geometry III* 4 hrs
- MAP 2302 Differential Equations* 3 hrs
- PHY 2048/48L Physics for Engineers & Scientists I* 4 hrs
- PHY 2049/49L Physics for Engineers & Scientists II* 4 hrs
- ENC 1101 Composition I 1 hr
- ENC 1102 Composition II 1 hr
- Humanities Courses 6 hrs
- Social Science Courses 6 hrs
- Humanities or Social Sciences 3 hrs

2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

3. Courses Required for the Engineering Core (14 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

- EGN 1006C Intro to the Engineering Profession 1 hr
- EGN 1007C Engineering Concepts & Methods 1 hr
- EGN 3310 Engineering Analysis - Statics 3 hrs
- EGN 3321 Engineering Analysis - Dynamics or EGN 3358 Therm-Fluids-Heat Transfer 3 hrs
- EGN 4340 Engineering Analysis 3 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- PHY 3010 Physics for Engineers & Scientists III 3 hrs

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 3 hrs
- EEL 3342C Intro to Digital Circuits & Systems 3 hrs
- EEL 3470 Electromagnetic Fields 3 hrs
- EEL 3552C Analog & Digital Communications 4 hrs
- EEL 3657 Linear Control Systems 3 hrs
- EEL 3801C Intro to Computer Engineering 3 hrs
- EEL 4309C Electronics II 4 hrs
- EEL 4750 Digital Signal Processing Fund. 3 hrs
- EEL 4767C Computer System Design I 4 hrs

5. Approved Wireless Technical Electives (10 hrs)
Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those students with a declared interest in wireless communication, a concentration in this area if available by taking the wireless technical electives in addition to the required communication courses listed in 3. above.
6. Departmental Graduation Requirements (6 hrs)
- EEL 4914  Senior Design I  3 hrs
- EEL 4915L  Senior Design II  3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in 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 course work.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).
Related Minors: none
Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

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

Electrical Engineering - Wireless Communication Concentration

128 semester hours required

FIRST YEAR
Fall
EEL 3360 Electro Devices 3 hrs
MAC 2311 Calculus I 4 hrs
STA 3023 Prob & Stats for Engr 1 hrs

Winter
EEL 3470 Electromagnetic Flds 3 hrs
EEL 3342C Intro to Dig Circ/Sys 3 hrs
MAC 2313 Calculus II 4 hrs

Spring
EEL 4914 Senior Design I 3 hrs
EEL 4390C Electronics II 4 hrs
EEN 4915L Senior Design II 3 hrs

FOURTH YEAR
Fall
EEL 3552C Analog & Dig Comm 4 hrs
EEL 4515C Dig Comm Systems 4 hrs
EEL 4370 Electromagnetic Fids 3 hrs
Approved wireless tech elective 3 hrs
EEL 4914 Senior Design I 3 hrs
Approved wireless tech elective 3 hrs

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

Integrated BS/MS Degree Program
The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

ELECTRICAL ENGINEERING TECHNOLOGY - COMPUTER SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207
http://www.ent.ucf.edu
Coordinator: Alireza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
http://www.ent.ucf.edu

Admission Requirements none
Degree Requirements
- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (38 hrs)
A. Communication Foundations 9 hrs
- Take ENC 1101, ENC 1102
Prefer SPC 1016
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   - MAC 2311
   - STA 2023
D. Social Foundations 6 hrs
E. Science Foundations
   - MAC 2311
   - MAC 2253
   - MAC 2254
2. Common Program Prerequisites (CPP) (6/8 hrs)
   - MAC 2253  Calculus I 3/4 hrs
   - MAC 2311
   - MAC 2254  Calculus II or equiv 3/4 hrs
   - PHY 2053C  Physics I/Lab 3 hrs
   - PHY 2048L
3. Engineering Technology Core Requirements (25 hrs)
   - BSC 1005&L, BSC 1050&L, GEO 1200&L 4 hrs
   - MAC 2253
   - MAC 2311
   - MAC 2312
   - PHY 2053C
   - PHY 2048L
   - MAP 3401  Problem Analysis 3 hrs
   - MAC 2312  Calculus II 3 hrs
   - PHY 2053C  Physics I 3 hrs
   - ETG 3161  Technical Economic Analysis 3 hrs
   - ETI 311E  Applied Engng Quality Assurance 3 hrs
   - ETI 4448  Applied Project Management 3 hrs
   - BSC 1005&L, BSC 1050&L, GEO 1200&L 4 hrs
   - MAC 2253
   - MAC 2311
   - MAC 2312
   - PHY 2053C
   - PHY 2048L
   - MAP 3401  Problem Analysis 3 hrs
   - MAC 2312  Calculus II 3 hrs
   - PHY 2053C  Physics I 3 hrs
   - ETG 3161  Technical Economic Analysis 3 hrs
   - ETI 311E  Applied Engng Quality Assurance 3 hrs
   - ETI 4448  Applied Project Management 3 hrs
   - BSC 1005&L, BSC 1050&L, GEO 1200&L 4 hrs
   - MAC 2253
   - MAC 2311
   - MAC 2312
   - PHY 2053C
   - PHY 2048L
   - MAP 3401  Problem Analysis 3 hrs
   - MAC 2312  Calculus II 3 hrs
   - PHY 2053C  Physics I 3 hrs
   - ETG 3161  Technical Economic Analysis 3 hrs
   - ETI 311E  Applied Engng Quality Assurance 3 hrs
   - ETI 4448  Applied Project Management 3 hrs

Notes
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
   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.

UCF Degree Programs

UCF College of Engineering and Computer Science
5. Departmental Exit Requirement (3 hrs)

- See faculty advisor for list of approved Technical Electives.
- Upper Level Technical Electives (6 hrs)
- CET 4427 Applied Database I 3 hrs
- CET 4505 Applied Operating Systems I 3 hrs
- CET 4333 Computer Organization & Design 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

See faculty advisor for list of approved Technical Electives.

5. Departmental Exit Requirement (3 hrs)

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

7. Approved Technical Electives

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

8. University Graduation Requirements

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

Total Semester Hours Required: 128 hours

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration)

Related Minors: none

Transfer Notes:

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

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

Tentative Course Schedule for the Computer Systems Concentration

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

Junior Year

Fall 13/14 hrs  
MAC 2253/2311 Calculus I 3  
MAP 3401 Prob Analysis or MAC 2312 Calculus II 3/4
EET 3716 Network Analysis 3  
ETI 3116 App Eng Quality Assur 3  
CET 4427 Applied Database I 3  
CET 3503 Microcomputer Technology I 3
ETI 3651C Computer Appl 3  
CET 3383 Applied Systems Analysis I 3  
CET 4505 Applied Operating Systems I 3  
CET 3198C Digital Systems 3  
EET 3716 Network Analysis 3
ETG 3541C Programmable Logic Controllers 3  
Mac 2253 or Calculus I 3  
MAC 2312 or Calculus II or equiv 3/4 hrs
PHY 2053C or PHY 2048/L

Spring 12/13 hrs  
ETI 4448 Appl Proj Management 3  
CET 4505 Appl Oper Sys I 3  
ETI 4427 Applied Database II 3  
ETI 3651C Computer Appl 3  
CET Elective 3  
CET Elective 3

Summer 10 hrs  
CET 4134C Micro Electronics II 3  
CET 4333 Computer Org 3  
CET 4383C Digital Progrnl Devices 4

Senior Year

Fall 15 hrs  
ETI 3025C Electrical Circuits 4  
ETG 3541C Programmable Logic Controllers 3  
CET 3503 Microcomputer Technology I 3  
ETI 3716 Network Analysis 3  
EET 3085C Electricity and Electronics 4  
ETI 3116 App Eng Quality Assur 3  
CET 4427 Applied Database I 3  
CET Elective 3  
CET Elective 3

Spring 14 hrs

Graduation: 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.

ELECTRICAL ENGINEERING TECHNOLOGY - ELECTRICAL SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science Engineering Technology (ENT) Department

ENGR 207

http://www.ent.ucf.edu

Coordinator: Alireza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
http://www.ent.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 (38 hrs)

- A. Communication Foundations 9 hrs
- Select ENC 1101, 1102
- B. Cultural and Historical Foundations 9 hrs
- Select MAC 1105, STA 2023
- C. Mathematical Foundations 9 hrs
- Select STA 2051 or STA 2023
- D. Social Foundations 6 hrs
- E. Science Foundations 9 hrs
- 1. BSC 1005/L, BSC 1050/L, or GEO 1200/L 4 hrs
- 2. PHY 2053C 4 hrs

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

- MAC 2253 or Calculus I 3/4 hrs
- MAC 2311
- MAC 2254 or Calculus II 3/4 hrs
- PHY 2053C or PHY 2048/L
- MAC 2312
- ENG 3401 Physics I/Lab GEP

3. Engineering Technology Core Requirements (25 hrs)

- BSC 1005/L, BSC 1050/L, GEO 1200/L GEP
- ENC 3241 Writing for the Technical Professional 3 hrs
- MAC 1105 College Algebra GEP
- MAC 1114 College Trigonometry 3 hrs
- MAC 2253 or Calculus I 3 hrs
- MAC 2311
- MAP 3401 Problem Analysis or MAC 2312
- 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
- STA 2051
- STA 2023
ETI 3671 Technical Economic Analysis 3 hrs
ETI 3116 Applied Eng'g Quality Assurance 3 hrs
ETI 4448 Applied Project Management 3 hrs

4. Technical Specialization (56 hrs)
Lower Level Required and Elective Courses (20 hrs)
EST 3543C Programmable Logic Controllers 3 hrs
CET 3323C Digital Fundamentals 4 hrs
CET 3296L System Applications in C 3 hrs
EET 1141C Analog Devices 4 hrs
EET 2142C Analog Circuits 4 hrs
EET 3143C Electronic Devices and Circuits 4 hrs
EET 2025C Electrical Circuits 4 hrs
EET 3095C Electricity and Electronics 4 hrs
STA 2023 Statistical Methods I 3 hrs

Upper Level Required Courses (21 hrs)
CET 3198C Digital Systems 3 hrs
CET 3503 Microcomputer Technology I 3 hrs
CET 4134C Microprocessor Electronics II 3 hrs
EET 3718 Network Analysis 3 hrs
EET 4158C Linear Integrated Circuits 3 hrs
EET 4548 Power Systems 3 hrs
EET 4732C Feedback Control Systems 3 hrs

Upper Level Technical Electives (9 hrs)
Select 7 hours from courses listed below:
CET 4138C Digital Programmable Devices 3 hrs
CET 4333 Computer Organization & Design 3 hrs
CET 4931 Current Topics in Tech 3 hrs
EET 4329C Communication Systems 4 hrs
EET 4339C Antennas and Propagation 3 hrs
EET 4359C Digital Communications 4 hrs

5. Departmental Exit Requirement (3 hrs)
- 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 Minimum Graduation Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

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

Junior Year
Fall 1314 hrs  Spring 1516 hrs
MAC 2253 Applied Calc I 3/4  MAP 3401 Problem Analysis or 3/4
MAC 2311 Calc w/Anal Geom I 3  ETG 3541 Applied Mechanics 3
ETG 3503 Micromach Tech I 3  CET 3198C Digital Systems 3
PHY 2054C/2049 Physics II 4  EET 3718 Network Analys 3

Senior Year
Fall 12 hrs  Spring 13 hrs
EET 4548 Power Systems 3  EET 4900C Sr. Design Proj 3
EET 4158C Linear Int Cir 3  CET/EEET Approved Elective 4
ETI 3116 App Eng Quality Assur 3  EET 4732C Feedback Control 3
CET/EEET Approved Elective 3  ENC 3241 Writing Tech Pros 3

ELECTRICAL ENGINEERING TECHNOLOGY (BSET) AS to BSEE TRACK
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
http://www.ent.ucf.edu
Coordinator: Al Ducharme
407-823-0770 Fax: 407-823-4746
E-mail: ducharme@mail.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 (38 hrs)
A. Communication Foundations 9 hrs
   Select ENC 1101, 1102
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   1. MAC 1105 3 hrs
   2. STA 2023 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
   1. BSC 1005L, BSC 1050L, or GEO 1200L 4 hrs
   2. PHY 2053C 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
MAC 2253 or Calculus I 3/4 hrs
MAC 2311 Calculus II or equiv 3/4 hrs
MAC 2284 or MAC 2312 3/4 hrs
PHY 2053C or PHY 2048L Physics I/Lab

3. Engineering Technology Core Requirements (22 hrs)
BSC 1005L, BSC 1050L, GEO 1200L 3 hrs
ENC 3241 Writing for the Technical Professional

UCF Degree Programs
MAC 1105  College Algebra  GEP
MAC 1114  College Trigonometry  3 hrs
MAC 2253 or  Calculus I  CPP
MAC 2311  Problem Analysis or  
MAC 2312  Calculus II  CPP
PHY 2053C  College Physics I  CPP
PHY 2054C  College Physics II  4 hrs
ETG 3541  Applied Mechanics  3 hrs
ETI 3671  Technical Economic Analysis  3 hrs
ETI 3116  Applied Engineering Quality Assurance  3 hrs
ETI 4448  Applied Project Management  3 hrs

4. Technical Specialization  (59 hrs)
Lower Level Required  (24 hrs)
EST 3534C  Programmable Logic Controllers  3 hrs
EST 2364  System Applications in C  3 hrs
ETI 1141C  Analog Devices  4 hrs
ETI 2142C  Analog Circuits  4 hrs
EET 2025C  Electrical Circuits  4 hrs
EET 3095C  Electricity and Electronics  4 hrs
STA 2033  Statistical Methods I  GEP
Lower level elective  2 hrs

Upper Level Required Courses  (33 hrs)
EET 3716  Network Analysis  3 hrs
EET 4158C  Linear Integrated Circuits  3 hrs
EET 4548  Power Systems  3 hrs
EET 3222  Intro to Photonics  3 hrs
EST 3213  Photonics Simulation  3 hrs
EST 3211  Wave Photonics  3 hrs
EST 4236  Laser System Technology  3 hrs
EST 4251  Photonics Sensors and Devices  3 hrs
EST 4256  Photonics Communication  3 hrs

Upper Level Technical Electives  (3 hrs)
Check with ENT faculty advisor for approved electives.

5. Departmental Exit Requirement  (3 hrs)
- EST 4259C Photonic Systems Analysis  3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements  (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation:  none

7. Approved Technical Electives  (0-4 hrs)
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA
- 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 meet the University of Central Florida (UCF) requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

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

Junior Year
Fall  13/14 hrs  Spring  14/15 hrs
MAC 2253 Calculus I  3 hrs  MAP 3401 Problem Analysis I  3 hrs
or MAC 2312 Calculus II  3 hrs
or MAC 2311 Calc w/Analytic Geo I  3 hrs  EST 3211 Wave Photonics  3 hrs
ETG 3541 Applied Mechanics  3 hrs  EST 4236 Laser Sys Tech  3 hrs
EST 3222 Intro to Photonics  3 hrs  EET 3716 Network Analysis  3 hrs
PHY 2054C/2049 Physics II  4 hrs  ETI 3671 Tech Economics  2 hrs

Summer  6 hrs  
EST 3116 Appl Eng Quality Assurance  3 hrs
ETI 4448 Applied Project Management  3 hrs

Senior Year
Fall  15 hrs  Spring  15 hrs
EET 4548 Power Systems  3 hrs  EET 4565 Photonics Comm  3 hrs
EET 4158C Linear Int Cir  3 hrs  CET/EET Approved Elective  3 hrs
ETI 3116 App Eng Quality Assurance  3 hrs  EET 3543C Proj Logic Cont  3 hrs
EST 3213 Photonics Simulation  3 hrs  ENC 3241 Writing Tech Prac  3 hrs
EST 4227 Photonics Sensor  3 hrs  EET 4259C Photonics System  3 hrs

ELEMENTARY EDUCATION (B.S.)
College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~elemed1
Program Coordinator: Dr. Rosie Webb Joels, ED 122-Q
407-823-2008
Email: rjoels@pegasus.cc.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements
- Students should consult with an advisor.

1. UCF General Education Program  (36 hrs)
A. Communication Foundations  
ENC 1101 Composition I  3 hrs
ENC 1102 Composition II  3 hrs
SPC 1600 Fundamentals of Oral Communication  3 hrs
B. Cultural-Historical Foundations  
AMH 1010 U.S. History 1492-1877  3 hrs
AMH 2010 U.S. History 1877-Present  3 hrs
PHI 1010 Introduction to Philosophy  3 hrs
C. Mathematical Foundations  
MGF 1106 Finite Mathematics  3 hrs
Select one:  
STA 1000C Basic Statistics using MS Excel or  3 hrs
STA 2014C Principles of Statistics  3 hrs
D. Social Foundations  
POS 2041 American National Government  3 hrs
PSY 1202 General Psychology  3 hrs
E. Science Foundations  
PSC 1121 Physical Science  3 hrs
Select one:  
ANT 2511 The Human Species or  3 hrs
BSC 1005 Biological Principles  3 hrs
Note: See laboratory component under Section 2.
2. Common Program Prerequisites (29 hrs)

A. Communications (9 hrs)
- ENC 1101 Composition I GEP
- ENC 1102 Composition II GEP
- SPC 1600 Fundamentals of Oral Communication GEP

B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy GEP
- Select one:
  - ARH 2050 The History of Art I OR
  - ARH 2051 The History of Art II OR
  - MUL 2010 Enjoyment of Music OR
  - THE 2000 Theatre Survey OR
  - FIL 2400 History of Motion Pictures

C. Mathematics (9 hrs)
- MAC 1105 College Algebra 3 hrs
- MGF 1106 Finite Mathematics GEP
- One of the following (per GEP) GEP
- STA 1060C Basic Statistics using MS Excel OR
- STA 2014C Principles of Statistics

D. Social Science/History (12 hrs)
- AMH 2010 U.S. History 1492-1877 GEP
- AMH 2020 U.S. History 1877-Present GEP
- POS 2041 American National Government GEP
- PSY 2012 General Psychology GEP

E. Science (9 hrs + lab)
- PSC 1121 Physical Science GEP
- One of the following (per GEP) GEP
- Select one:
  - ANT 2511 The Human Species OR
  - BSC 1005 Biological Principles
- AST 2002 Astronomy OR
- GEO 1200 Physical Geography OR

G. Diversity Courses GEP
- Select one associated science lab:
- BSC 1005L Biological Principles Laboratory
- PSC 1121L Physical Science Laboratory

F. Education Courses (9 hrs)
- EDF 2005 Introduction to Education 3 hrs
- EDG 2701 Teaching Diverse Populations 3 hrs
- EME 2040 Technology for Educators 3 hrs

H. Other Program Prerequisites (10 hrs)
- MAE 2801 Elementary School Mathematics 4 hrs
- Additional required electives in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

3. Recommended Sequence of Program Courses

NOTE: This recommended sequence may vary at selected regional campuses.

Semester I (15 hrs)
- EDG 4323 Professional Teaching Practices 3 hrs
- EDF 4214 Classroom Learning Principles 3 hrs
- LAE 3414 Children's Literature 3 hrs
- RED 3012 Readings of Founding 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

Semester II (Internship Block) (12 hrs)
- RED 4519 Diagnostic and Corrective Reading Strategies 3 hrs
- MAE 3426 How Children Learn Math 3 hrs
- EEX 4003 Teaching/Management Tech Ed Student 3 hrs in the Regular Setting
- EDE 3942 Internship I 3 hrs
  - Prior to Internship I, the student must have completed each of the prerequisite courses indicated above with a letter grade of "C-" (1.75) or better
  - See additional requirements listed under College of Education, Office of Clinical Experiences

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

Semester III (15 hrs)
- EDF 4603 Analysis of Critical Issues in Education 3 hrs
- MUE 3210 Teaching Music in the Elementary School 3 hrs
- HLP 4722 Teaching Elementary Health and Physical Education 3 hrs
- SCE 3310 Teaching Science in the Elementary School 3 hrs
- SSE 3310 Teaching Social Science in the Elementary School 3 hrs
- LAE 4314 Teaching Language Arts in the Elementary School 3 hrs

4. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in 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.)

5. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

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
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

7. Total Semester Hours Required 128 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

8. Recommended Four-Year Sequence of Courses

UCF Degree Programs
### UCF Degree Programs

#### Engineering Technology (B.S.T.)

**College of Engineering and Computer Science**

**Engineering Technology (ENT) Department, ENGR 207**

**http://www.ent.ucf.edu**  
Coordinator: Lucy Morse 407-823-4742, Fax: 407-823-4746

**Admission Requirements** none

**Coordinator:**  
http://www.ent.ucf.edu  
Engineering Technology (ENT) Department, ENGR 207

**College of Engineering and Computer Science**

#### Engineering Technology - Design Concentration (B.S.E.T.)

- Fall (15 hrs)  
  - ETC 2366 Systems Application in C 3 hrs  
  - MAC 2254 Calculus II 3 hrs
- Spring (12 hrs)  
  - ETC 2364 Systems Application in C 3 hrs  
  - ETC 4208 Construction Estimating 3 hrs

**Senior Year**

- Fall (15 hrs)  
  - ETC 4414C Applied Structural Design I 3 hrs  
  - EST 4502C Metrology & Instrumentation 4 hrs
- Spring (12 hrs)  
  - ETC 4242 Construction Contracts & Spec. 3 hrs  
  - ETC 4414C Applied Structural Design I 3 hrs

**Related Minors:** none

**Transfer Notes:**
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution must have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution 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 and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

#### Tentative Schedule for the Design Concentration

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

**Junior Year**

- **Fall**  
  - MAC 2233 Calculus I 3 hrs
- **Spring**  
  - MAC 2311 Calculus II 3 hrs

**Senior Year**

- **Fall**  
  - ETC 4414C Applied Structural Design I 3 hrs  
  - EST 4502C Metrology & Instrumentation 4 hrs
- **Spring**  
  - ETC 4242 Construction Contracts & Spec. 3 hrs  
  - ETC 4414C Applied Structural Design I 3 hrs

**Total Semester Hours Required** 128 hours

**Related Programs:** Engineering Technology (Operations Concentration).

**Related Minors:** none
ETM 4313C Appl Fluid Mech 4
ETI 4448 Applied Proj Mgmt 3

Senior Year
Fall 15 hrs
Spring 17 hrs
ETI 3421 Materials & Processes 3
EST 3543C Prog Log Controllers 3
ETG 3541 Appl Mechanics 3
ETC 4241 Construction Meth 3
ENC 3241 Tech Report Writ 3
EST 4502C Metro I Instr 4
ETG 4950C Sr Design Proj 3
ETI 4242 Contract & Spec 3
ETG 3533C Eng Strength of Mat 4
ETI 3671 Tech Econ Anal 3

ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207
http://www.ent.ucf.edu
Coordinator: Lucy Morse
407-823-4742, Fax: 407-823-4746

Admission Requirements
none

Degree Requirements
- Students should check with their ENT advisor frequently to 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 (38 hrs)
   A. Communication Foundations
   ENC 1101, ENC 1102
   or
   Prefer SPC 1016
   9 hrs
   B. Cultural and Historical Foundations
   MAC 1105
   STA 2023
   9 hrs
   C. Mathematical Foundations
   MAC 2254
   MAC 2253
   9 hrs
   D. Social Foundations
   PHY 2053C
   6 hrs
   E. Science Foundations
   PHY 2053C
   BSC 1005&L, BSC 1050&L, or GEO 1200&L
   4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   MAC 2553 or
   MAC 2311
   MAC 2554 or
   Calculus I
   or
   Calculus II or equiv
   3 hrs
   or
   3/4 hrs
   PHY 2053C or
   PHY 2040L
   Physics I/ Lab
   GEP

3. Engineering Technology Core Requirements (21 hrs)
   ANT 2511, BSC 1005, BSC 1050, GEO 1200,
   or
   CAP 3241
   Writing for the Technical Professional
   3 hrs
   MAC 1105
   College Algebra
   GE
   MAC 1114
   College Trigonometry
   3 hrs
   MAC 2253 or
   Calculus I
   CPP
   MAC 2311
   MAP 3401
   Problem Analysis or
   3 hrs
   or
   Calculus II
   PHY 2053C
   College Physics I
   CPP
   ETG 3541
   Applied Mechanics
   3 hrs
   ETI 3651C
   Computer Applications
   3 hrs
   ETA 3671
   Technical Economic Analysis
   3 hrs
   ETA 3116
   Applied Engineering Quality Assurance
   3 hrs
   ETA 4635
   Technology Administration
   3 hrs

4. Technical Specialization (60 hrs)
   L. Lower Level Required and Elective Courses (28 hrs)
   EST 3542C
   Programmable Logic Controllers
   3 hrs
   CHM 1032, 1032L
   General Chemistry, Lab
   4 hrs
   CET 2364
   Systems Application in C
   3 hrs
   EET 3085C
   Electricity and Electronics
   4 hrs
   EGN 1111P
   Eng Computer Graphics
   2 hrs
   STA 2023
   Statistical Methods I
   GEP
   MAP 3401
   Approved Lower Level Technical Electives
   11 hrs

   U. Upper Level Required Courses (16 hrs)
   ETA 4640
   Operations Management
   3 hrs
   ETI 3050C
   Applied CADD
   3 hrs
   ETA 3421
   Materials & Processes
   3 hrs
   ETM 4220
   Applied Energy Systems
   4 hrs
   ETA 4448
   Applied Project Management
   3 hrs

   V. Upper Level Technical Elective (Select 5) (17 hrs)
   ETA 3690
   Technical Sales
   3 hrs
   ETA 4186
   Applied Reliability
   3 hrs
   ETA 4205
   Applied Logistics
   3 hrs
   ETA 3553C
   Applied Engnrng Strength of Materials
   4 hrs
   ETA 3551C
   Applied Facilities Planning & Design
   3 hrs
   ETA 4700
   Occupational Safety
   3 hrs
   ETA 4502C
   Metrology & Instrumentation
   4 hrs
   ETA 4313C
   Applied Fluid Mechanics
   4 hrs
   ETA 3418C
   Computer Numerical Controls
   3 hrs

5. Departmental Graduation Requirement (3 hrs)
   ETA 4950C Senior Design Project

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

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

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

Total Semester Hours Required 128 hours

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Operations Concentration

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

Junior Year
Fall 13/14 hrs
MAC 2233/2311 Calculus I
PHY 2053C/2048 Physics I
ETI 3651C Comp Appl
ETA 4640 Operations Mgmt
13 hrs
MAP 3401 Problem Analysis
ETI 4502C
ETI 3418C
Fall 13 hrs
ETI 4640
ETI 4205
ETG 3553C
ETI 3551C
ETI 4700
ETI 4502C
ETM 4220
ETG 3541
ETI 3671
ETI 3418C
# UCF Degree Programs

**Engineering Technology - Space Systems Concentration (B.S.E.T.)**

**College of Engineering and Computer Science**

**Engineering Technology (ENT) Department**

**Florida Space Institute**

**Kennedy Space Center, FL 32899**

**http://www.ent.ucf.edu**

**Coordinator:** Dr. Nebil Misconi 407-823-4751 or 321-459-0199

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**Admission Requirements**
None

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**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**

**(38 hrs)**

- **A. Communication Foundations**
  - ENC 1101, ENC 1102
  - Prefer SPC 1016
- **B. Cultural and Historical Foundations**
  - 9 hrs
- **C. Mathematical Foundations**
  - MAC 1105
  - STA 2023
- **D. Social Foundations**
  - 6 hrs
- **E. Science Foundations**
  - PHY 2053C or PHY 2048
  - BSC 1005L, BSC 1050L, or GEO 1200L

**2. Common Program Prerequisites (CPP)**

**(6/8 hrs)**

- MAC 2253 or Calculus I
  - MAC 2311
- MAC 2254 or MAC 2312 Calcul II
  - 3/4 hrs
- PHY 2053C or Physics I Lab
  - PHY 2048L

**3. Engineering Technology Core Requirements**

**(24 hrs)**

- **AST 2002 Astronomy**
  - 3 hrs
- **ENC 3241 Writing for the Technical Professional**
  - 3 hrs
- **MAC 1105 College Algebra**
  - GEP
- **MAC 1114 College Trigonometry**
  - 3 hrs
- **MAC 2253 or Calculus I**
  - CPP
- **MAC 2311 MAP 3401 Problem Analysis or**
  - 4 hrs
- **MAC 2312 Calculus II**
  - GEP
- **PHY 2053C College Physics I**
  - 3 hrs
- **ETG 3541 Applied Mechanics**
  - 3hrs
- **ETI 3541C Computer Applications**
  - 3 hrs
- **ETI 3671 Technical Economic Analysis**
  - 3 hrs
- **ETI 3116 Applied Engineering Quality Assurance**
  - 3 hrs
- **ETI 4448 Project Management**
  - 3 hrs

**4. Technical Specialization**

**(57 hrs)**

**Lower Level Required and Elective Courses**

**(24 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
- EGN 1111C Eng Computer Graphics
  - 2 hrs
- STA 2023 Statistical Methods I
  - 3 hrs
- Approved Lower Level Technical Electives
  - 8 hrs

**Upper Level Required and Elective Courses**

**(21 hrs)**

- EST 4502C Metrology & Instrumentation
  - 4 hrs
- ETD 3350C Applied CAD
  - 3 hrs
- ETG 3533C Applied Engineering Strength of Materials
  - 4 hrs
- EMT 4220 Applied Energy Systems
  - 4 hrs
- ETI 4835 Rocket Propulsion Technology
  - 3 hrs

- **ETI 4836 Space Systems Technology**
  - 3 hrs

**5. Upper Level Technical Electives (Select 4)**

**(12 hrs)**

- ETI 4837C Technology of Small Space Payloads
  - 3 hrs
- ETI 4382 Launch Processing Technology
  - 3 hrs
- ETI 4393 Space Electro-Optics Technology
  - 3 hrs
- ETI 4150 Spacecraft QA and Testing
  - 3 hrs
- ETI 4381 Ground System Design
  - 3 hrs
- EST 3222 Intro to Photonics
  - 3 hrs

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

**6. Foreign Language Requirements**

**(0-8 hrs)**

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

**Graduation:** None

**7. Approved Technical Electives**

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

**8. University Minimum Graduation Requirements**

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

**Total Semester Hours Required:** 128 hours

**Related Programs:** Engineering Technology (Operations Concentration)

**Related Minors:** None

**Transfer Notes:**

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution may have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution may 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.

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**Tentative Course Schedule for the Space Systems Concentration**

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

**Junior Year**

**Fall**

- MAC 2253/2311 Calculus I
  - 3/4 hrs
- MAP 3401 Problem Analysis
  - 3 hrs

**Spring**

- EST 3222 Intro to Photonics
  - 3 hrs
- EMT 4220 Energy Systems
  - 4 hrs
- ETI 3116 Appl Eng Qual Assur
  - 3 hrs
- EST 3543C Prog Log Control
  - 3 hrs
- ETI 4836 Space Systems Tech
  - 3 hrs

**Summer**

- 8 hrs

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2005-2006 Undergraduate Catalog
Choose four courses from these two groupings

1. UCF General Education Program (36 hrs)
   a. Communication Foundations
      - Select ENC 1101 and ENC 1102
      - Select SPC 1600 Fund of Oral Com
   b. Cultural and Historical Foundations
      - Select one class from 1.B.1 list
      - Select LIT 2110 World Literature I
      - Select LIT 2120 World Literature II
   c. Mathematical Foundations
      - Select MGF 1106 Finite Mathematics
         (may substitute a higher level math)
      - Prefer STA 1060C Statistics Using Excel
   d. Social Foundations
      - ENG 3014 Theory & Tech of Literary Study
   e. Science Foundations
      - 6 hrs

2. Common Program Prerequisites
   - ENC 1101 Composition I GEP
   - ENC 1102 Composition II GEP
   - *See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)
   - CRW 3013 Creative Writing for English Majors
   - ENG 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)
   Choose four courses from these two groupings
   a. Select at least one of these pre-1865 literature courses.
      - AML 3031 American Literature I
      - AML 3033 American Literature II
      - ENL 2022 English Literature I
      - ENL 2023 English Renaissance Poetry and Prose
      - ENL 2420 English Romantic Writers
      - ENL 4311 Chaucer
      - ENL 4333 Shakespeare
      - ENL 4341 Milton and His Age
   b. Select at least one of these post 1865 literature courses
      - AML 3041 American Literature II
      - AML 3283 Contemp American Women's Fiction
      - AML 3614 Topics in African American Literature
      - AML 3615 Har弁, Diaz, and the Havana
      - AML 4101 American Novel
      - AML 4153 American Poetry at Mid-Century
      - AML 4155 Modern American Poetry
      - AML 4261 Literature of the South
      - AML 4265 Florida Writers
      - AML 4321 Modern American Literature
      - AML 4630 Latino/Latina Literature
      - ENL 2022 English Literature II
      - ENL 4101 English Novel
      - ENL 4253 The Victorian Age: Poetry
      - ENL 4252 Nineteenth Century British Prose
      - ENL 4273 Modern British Literature
      - LIT 3082 Continental European Fiction Since 1900
      - LIT 3192 Caribbean Literature
      - LIT 4043 Modern Drama as Literature
      - LIT 4184 Irish Literature
      - ENL 4353 Post-World War II Fiction

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5. Restricted Electives (18 hrs)
   a. Choose one of the following: 3 hrs
      - LIN 3010 Intro to Linguistics
      - LIN 4100 History of the English Language
      - LIN 3460 Cross Cultural Communication
      - LIN 4660 Linguistics and Literature
      - LIN 4680 Modern English Grammar
   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 Fiction Writing Workshop
      - CRW 4224 Adv Creative Nonfiction Writing
      - CRW 4320 Adv Poetry Writing Workshop
   c. Choose two of the following: 6 hrs
      - CRW 4122 Adv Fiction Writing Workshop
      - CRW 4224 Adv Creative Nonfiction Writing
      - CRW 4320 Adv Poetry Writing Workshop
   d. Choose one of the following: 3 hrs
      - CRW 3311 Structure of Verse
      - CRW 3610 Writing Scripts
      - CRW 3340 Literary Magazines
      - CRW 4114 History of Verse 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 as necessary 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
ENGLISH - LITERATURE (B.A.)

College of Arts and Sciences
English Department, CNH 301, http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements

none

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students must earn at least a “C” (2.0) in each required course.

Co-op or internship credit is not accepted in the major.

Students should consult with a departmental advisor.

Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.

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

Honors in English Degree:

Additional Requirements

Application and admission through the English Honors Committee and the Honors 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

A. Communication Foundations

Select ENC 1101 and ENC 1102

6 hrs

Select SPC 1600 Fund of Oral Com

3 hrs

B. Cultural and Historical Foundations

Select one class from 1.B.1 list

3 hrs

Select LIT 2110 World Literature I

3 hrs

Select LIT 2120 World Literature II

3 hrs

C. Mathematical Foundations

Select MGF 1106 Finite Mathematics

3 hrs

(may substitute a higher level math)

Select STA 1060C Statistics Using Excel

3 hrs

D. Social Foundations

6 hrs

E. Science Foundations

6 hrs

2. Common Program Prerequisites

ENC 1101* Composition I GEP

ENC 1102* Composition II GEP

*See Transfer Notes for possible substitutes

3. Core- Gateway Courses

a. Prerequisite for all 4000 level AML, 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

4. Literary History Requirement

Choose five courses from the two groupings

a. Select at least two of these pre-1865 literature courses.

AML 3031 American Literature I

AML 3613 Narratives of Slavery

ENL 1202 English Literature I

ENL 4220 English Renaissance Poetry and Prose

ENL 4230 Eighteenth Century Studies

ENL 4240 English Romantic Writers

LIT 4374 Literature of the Bible

b. Select at least two of these post 1865 literature courses

AML 3041 American Literature II

AML 3283 Contemp American Women’s Fiction

AML 3614 Topics in African American Literature

AML 3615 Harlem, Haiti, and Havana

AML 3640 Native American Literature

AML 4101 American Novel

AML 4153 American Poetry at Mid-Century

AML 4155 Modern American Poetry

AML 4261 Literature of the South

AML 4265 Florida Writers

AML 4321 Modern American Literature

AML 4360 Latino/a Literature

ENL 2022 English Literature II

ENL 4101 English Novel

ENL 4253 The Victorian Age: Poetry

ENL 4262 Nineteenth Century British Prose

ENL 4273 Modern British Literature

LIT 3082 Continental European Fiction Since 1900

LIT 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

Choose one single author or major author course

3 hrs

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

AML 4300 Major American Authors

ENL 4311 Chaucer
ENGLISH - TECHNICAL WRITING (B.A.)

College of Arts and Sciences
English Department, CNH 301
http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements  
none

Degree Requirements  
Students who change degree programs and select this major may adopt the most current catalog.  
 también deben cumplir con lo que se establece para el Grado en la Muestra.

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 101, ENC 102  
3 hrs
Select SPC 1600 Fund of Oral Com  
3 hrs
B. Cultural and Historical Foundations  
9 hrs
C. Mathematical Foundations  
6 hrs
D. Social Foundations  
6 hrs
E. Science Foundations  
6 hrs

2. Common Program Prerequisites

3. Core courses-Basic  
(15 hrs)

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

Total Semester Hours Required  
120 hours

Related Programs: Technical Writing
Related Minors: Creative Writing, Linguistics, Literature

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.

UCF Degree Programs
UCF Degree Programs

4. Core requirements-Advanced (24 hrs)
   ENC 3311 Advanced Expository Writing 3 hrs
   ENC 4293 Technical Documentation I 3 hrs
   ENC 4294 Technical Documentation II 3 hrs
   ENC 4295 Technical Documentation III 3 hrs
   ENC 4215 Techniques of Tech Publication 3 hrs
   ENC 4218 Visual Elements in Documentation 3 hrs
   ENC 4290 Technical Writing Style 3 hrs
   LIT 4433 Technical and Sci Literature 3 hrs

5. Restricted Upper Division Electives (3 hrs)
   Choose one of the following:
   - ENC 4414 Studies in Hypertext
   - ENC 4262 International Technical Communication
   - ENC 4265 Writing for the Computer Industry
   - Optional course
   - ENC 4941 Tech Writing & Editing Internship

6. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in upper division required courses
   - Computer Competency met by completion of ENC 4293

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: 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 residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Creative Writing, Literature
Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

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

Acceptable Substitutes for common program prerequisites to the BA in Technical Writing if taken prior to transferring to UCF:
- ENC 1101 & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However, ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)

College of Education
Department of Teaching and Learning Principles
ED 209; http://pegasus.cc.ucf.edu/~englae
Program Coordinator: Dr. Denise Ousley
ED 122-L, 407-823-1142
E-mail: dousley@mail.ucf.edu

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements:
- Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science 3 hrs
      Select one:
      ANT 2511 The Human Species or
      BSC 1005 Biological Principles
   F. Humanities (9 hrs)
      SPC 1600 Fundamentals of Oral Communication 3 hrs
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
   G. Science (9 hrs)
      MAC 1115 College Algebra 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
      One of the following (per GEP)
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics
   H. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   I. Science (9 hrs + lab)
      PSC 1121 Physical Science 3 hrs
      Select one:
      ANI 2511 The Human Species or
      BSC 1005 Biological Principles Laboratory or
      BSC 1005L Biological Principles Laboratory or

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy 3 hrs
      Select one:
      ARH 2050 History of Western Art I or
      ARH 2051 History of Western Art II 3 hrs
      MUL 2010 Enjoyment of Music or
      THE 2000 Theatre Survey or
      FIL 2490 History of Motion Pictures
   C. Mathematics (9 hrs)
      MAC 1105 College Algebra 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
      One of the following (per GEP)
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   E. Science (9 hrs + lab)
      PSC 1121 Physical Science 3 hrs
      Select one:
      ANI 2511 The Human Species or
      BSC 1005 Biological Principles Laboratory or
      BSC 1005L Biological Principles Laboratory or

Note: See laboratory component under Section 2.
11. Total Semester Hours Required 128 hours
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

Freshman Year

Fall (12 hrs) | Spring (16 hrs)
---|---
EDG 2005 3 hrs | ENC 2205 3 hrs
EDG 2701 3 hrs | ENL 2022 3 hrs
EME 2040 3 hrs | ENG 1101 3 hrs
GEP 3 hrs | ENL 2022 3 hrs
MGT 1010 3 hrs | LAE 4360 3 hrs
PSY 1012 3 hrs | LAE 4361 3 hrs
PHI 1012 3 hrs | STA 2014 3 hrs
PSC 1121 3 hrs | STA 2014 3 hrs
PSY 2012 3 hrs | STA 2014 3 hrs
PHI 2012 3 hrs | STA 2014 3 hrs

Sophomore Year

Fall (15 hrs) | Spring (15 hrs)
---|---
EDF 4214 3 hrs | LAE 4342 3 hrs
EDG 4323 3 hrs | TSL 4080 3 hrs
LAE 4361 3 hrs | TSL 4080 3 hrs
EDG 4323 3 hrs | TSL 4080 3 hrs
EDG 4323 3 hrs | TSL 4080 3 hrs
EDF 4214 3 hrs | TSL 4080 3 hrs
LAE 4360 3 hrs | TSL 4080 3 hrs
LAE 4360 3 hrs | TSL 4080 3 hrs

Junior Year

Fall (12 hrs) | Spring (12hrs)
---|---
EDF 4603 3 hrs | ENL 2022 3 hrs
EDF 4603 3 hrs | ENG 1101 3 hrs
EDF 4603 3 hrs | ENL 2022 3 hrs
EDF 4603 3 hrs | ENG 1101 3 hrs
EDF 4603 3 hrs | ENG 1101 3 hrs
EDF 4603 3 hrs | ENG 1101 3 hrs
EDF 4603 3 hrs | ENG 1101 3 hrs

Senior Year

Fall (13 hrs) | Spring (12 hrs)
---|---
ESE 3940 3 hrs | ESE 4843 3 hrs
ESE 3940 3 hrs | ESE 4843 3 hrs
ESE 3940 3 hrs | ESE 4843 3 hrs
ESE 3940 3 hrs | ESE 4843 3 hrs
ESE 3940 3 hrs | ESE 4843 3 hrs
ESE 3940 3 hrs | ESE 4843 3 hrs
ESE 3940 3 hrs | ESE 4843 3 hrs

ENVIROMENTAL ENGINEERING (B.S.Env.E.)

College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE), ENGR 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: Amr A. Oloufa, E-Mail: aoloufa@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements:
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for (38 hrs)
UCF Degree Programs

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. and B. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 9 hrs
1. Take ENC 1101
2. Take ENC 1102
3. Take SPC 1016

B. Cultural and Historical Foundations 7 hrs
1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 2023 (3 hrs)

Note: Calculus II is the prerequisite for this course.

C. Mathematical Foundations 7 hrs
1. Take ECO 2013 or ECO 2023.

D. Social Foundations 6 hrs
1. Take PHY 2048/48L.
2. Take one from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1055 or BSC 1050).
[Note: Environmental Engineering Majors must satisfy both an Earth Science requirement and a Biological Science requirement.]

2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L Chemistry Fundamentals I 4 hrs
MAC 2311 Calculus with Analytic Geometry I 4 hrs
MAC 2312 Calculus with Analytic Geometry II 4 hrs
MAC 2313 Calculus with Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I 4 hrs
ENC 1102 Composition II 4 hrs

Humansities Courses
1. Take ECO 2013
2. Take STA 2023
3. Take ENC 1101

Science Courses
1. Take PHY 2048/48L.
2. Take one from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1055 or BSC 1050).

Note: Environmental Engineering Majors must satisfy both an Earth Science requirement and a Biological Science requirement.

3. Courses Required for the Major (60 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, along with technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2045C/45L Chemistry Fundamentals I w/Lab 4 hrs
EGN 3001 Intro to Environ Eng 3 hrs
EGN 3010 Economic Analysis - Statics 3 hrs
EGN 3021 Engineering Analysis - Dynamics 3 hrs
EGN 3031 Mechanics of Materials 3 hrs
EGN 3043 Thermodynamics 3 hrs
EGN 3063 Engineering Economic Analysis 2 hrs
EGN 3073 Principles of Electrical Engineering 3 hrs
EGN 3042 Calculus with Analytic Geometry III 4 hrs
ECO 2013 Macroeconomics 3 hrs
ECO 2023 Microeconomics 3 hrs
EGN 3010 Intro to Environmental Engineering 3 hrs
STA 3024 Probability & Statistics for Engineers 4 hrs
CWR 3101C Engineering Fluid Mechanics 3 hrs
CWR 4101C Hydrology 3 hrs
CWR 4203C Hydraulics 3 hrs
EES 3111C Biological Process Control 3 hrs
EES 3122C Chemical Process Control 3 hrs
ENV 4120 Air Pollution Control 3 hrs
ENV 4341 Solid Waste Management 3 hrs
ENV 4361 Environmental Engineering Process Design 4 hrs
ENV 4563 Environmental Control Systems 3 hrs

Note: Environmental engineering majors must complete both Earth Science and Biological Science coursework. See assigned academic advisor for list of approved courses.

4. Approved Technical Electives (5 hrs)
Technical electives are available in the 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 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 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 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Chemistry, Civil Engineering.

Related Minors: Chemistry, Environmental Studies, Mathematics.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

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

Environmental Engineering - 128 semester hours required

FIRST YEAR
Fall 14 hrs
1. *ENC 1101 English Comp I 3 hrs
2. *MAC 2311 Calc w/Analy Geo I 4 hrs
3. *MAC 2311 Calc w/Analy Geo II 4 hrs
4. *ECON 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
5. *SPC 1016 Tech Presentations 3 hrs
6. EGN 1006C Intro to Engr 1 hr
Spring 15 hrs
1. *ENC 1102 English Comp II 3 hrs
2. *MAC 2312 Calc w/Analy Geo II 4 hrs
3. *MAC 2312 Calc w/Analy Geo II 4 hrs
4. *ECON 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
5. *PHY 2048L Phys Engr I w/lab 4 hrs
6. *ECON 107C Econ Conc & Meth 1 hr

SECOND YEAR
Fall 16 hrs
1. *MAC 2313 Calc w/Analy Geo III 4 hrs
2. *CWR 4101C Hydrology 3 hrs
3. *EGN 3010 Intro to Environmental Engineering 3 hrs
4. CWR 3201 Engr Fluid Mech 3 hrs
5. *CWR 4101C Hydrology 3 hrs
6. CWR 3201 Engr Fluid Mech 3 hrs
Spring 17 hrs
1. *EGN 3010 Intro to Environ Eng 3 hrs
2. *CWR 4101C Hydrology 3 hrs
3. *EGN 3010 Intro to Environmental Engineering 3 hrs
4. CWR 3201 Engr Fluid Mech 3 hrs
5. CWR 3201 Engr Fluid Mech 3 hrs
6. *EGN 3100 Engr Anal-Statics 3 hrs
7. *HUM/AMH/EUH I 3 hrs
8. *HUM/AMH/EUH II 3 hrs
9. *EEL 3613 Engr Econ Anal 3 hrs
10. *EEL 3613 Engr Econ Anal 3 hrs
Summer 9 hrs
1. Biological Science 3 hrs
2. EGN 3343 Thermodynamics 3 hrs
3. ENV 3001 Intro to Environ Eng 3 hrs

THIRD YEAR
Fall 15 hrs
1. CWR 3201 Engr Fluid Mech 3 hrs
2. CWR 4101C Hydrology 3 hrs
3. CWR 4203C Hydraulics 3 hrs
4. *EEL 3613 Engr Econ Anal 3 hrs
5. *EEL 3613 Engr Econ Anal 3 hrs
6. *EEL 3613 Engr Econ Anal 3 hrs
7. *EEL 3613 Engr Econ Anal 3 hrs
8. *EEL 3613 Engr Econ Anal 3 hrs
9. *EEL 3613 Engr Econ Anal 3 hrs
10. *EEL 3613 Engr Econ Anal 3 hrs
11. *EEL 3613 Engr Econ Anal 3 hrs
12. *EEL 3613 Engr Econ Anal 3 hrs
Spring 15 hrs
1. CWR 3201 Engr Fluid Mech 3 hrs
2. CWR 4101C Hydrology 3 hrs
3. CWR 4203C Hydraulics 3 hrs
4. *EEL 3613 Engr Econ Anal 3 hrs
5. *EEL 3613 Engr Econ Anal 3 hrs
6. *EEL 3613 Engr Econ Anal 3 hrs
7. *EEL 3613 Engr Econ Anal 3 hrs
8. *EEL 3613 Engr Econ Anal 3 hrs
9. *EEL 3613 Engr Econ Anal 3 hrs
10. *EEL 3613 Engr Econ Anal 3 hrs
11. *EEL 3613 Engr Econ Anal 3 hrs
12. *EEL 3613 Engr Econ Anal 3 hrs
13. *EEL 3613 Engr Econ Anal 3 hrs
14. *EEL 3613 Engr Econ Anal 3 hrs
15. *EEL 3613 Engr Econ Anal 3 hrs

UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
3. Exceptional Education (7 hrs)
Preprofessional Requirements
EEX 2010 Orientation to Special Education 3 hrs
MAE 2801 Elementary School Mathematics 4 hrs

4. Education Core Requirements (9 hrs)
EDG 4323 Professional Teaching Practices 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
EDF 4214 Classroom Learning Principles 3 hrs

Internship I Prerequisites: The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.

EDG 4323 Professional Teaching Practices 3 hrs
RED 3012 Basic Foundations of Reading 3 hrs
EEX 2010 Orientation to Special Education 3 hrs
EEX 3241 Methods of Academic Skills Ex Ed 3 hrs
TSL 4080 Theory and Practice of Teaching ESL 3 hrs

5. Specialization Core Requirements (33 hrs)
RED 3012 Basic Foundations of Reading 3 hrs
RED 4519 Diagnostic and Corrective Reading 3 hrs
RED 4043 Content Reading K-12 3 hrs
LAE 4314 Language Arts in Elem. Schools 3 hrs
TSL 4080 Theory and Practice of Teaching ESL 3 hrs
Students in Schools
TSL 4141 Issues in Second Language Acquisition 3 hrs
EEX 3241 Methods of Academic Skills Ex Ed 3 hrs
EEX 3221 Assessment of Ex Students 3 hrs
EEX 4601 Intro to Behavior Management 3 hrs
EEX 3243 Techniques for Ex Adolescents and Adults 3 hrs
EEX 4753 Parent Professional Collaboration 3 hrs

6. Specialization (5 hrs)
EEX 4054 Application and Theories for Students with Special Needs 2 hrs
EEX 4066 Curriculum and Instructional Strategies for Special Needs Students 3 hrs

Internship Requirements
EEX 3940 Internship I 3 hrs
EEX 4941 Internship II 9 hrs

ARH 2050 The History of Art I or
ARH 2051 The History of Art II or
MUL 2010 Enjoyment of Music or
THE 2000 Theatre Survey or
FIL 2400 History of Motion Pictures

C. Mathematics (9 hrs)
MAC 1105 College Algebra 3 hrs
MAC 2311 Calculus with Analytic Geometry 3 hrs
One of the following (per GEP) GEP
STA 1060C Elementary Statistics 3 hrs
STA 2023 Probability and Statistics 3 hrs

D. Social Science/History (12 hrs)
AMH 1001 U.S. History 1492-1877 3 hrs
AMH 2010 U.S. History 1877-Present 3 hrs
POS 2041 American National Government 3 hrs
PSY 2012 General Psychology 3 hrs

E. Science (9 hrs + lab)
PSC 1121 Physical Science 3 hrs
One of the following (per GEP) GEP
ANT 2511 The Human Species or
BSC 1005 Biological Principles 3 hrs

H. Other Program Prerequisites (6 hrs)
Students must select an additional six hours in courses in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

3. Exceptional Education (7 hrs)
Preprofessional Requirements
EEX 2010 Orientation to Special Education 3 hrs
MAE 2801 Elementary School Mathematics 4 hrs

4. Education Core Requirements (9 hrs)
EDG 4323 Professional Teaching Practices 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
EDF 4214 Classroom Learning Principles 3 hrs

Internship I Prerequisites: The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.

EDG 4323 Professional Teaching Practices 3 hrs
RED 3012 Basic Foundations of Reading 3 hrs
EEX 2010 Orientation to Special Education 3 hrs
EEX 3241 Methods of Academic Skills Ex Ed 3 hrs
TSL 4080 Theory and Practice of Teaching ESL 3 hrs

5. Specialization Core Requirements (33 hrs)
RED 3012 Basic Foundations of Reading 3 hrs
RED 4519 Diagnostic and Corrective Reading 3 hrs
RED 4043 Content Reading K-12 3 hrs
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Students in Schools
TSL 4141 Issues in Second Language Acquisition 3 hrs
EEX 3241 Methods of Academic Skills Ex Ed 3 hrs
EEX 3221 Assessment of Ex Students 3 hrs
EEX 4601 Intro to Behavior Management 3 hrs
EEX 3243 Techniques for Ex Adolescents and Adults 3 hrs
EEX 4753 Parent Professional Collaboration 3 hrs

6. Specialization (5 hrs)
EEX 4054 Application and Theories for Students with Special Needs 2 hrs
EEX 4066 Curriculum and Instructional Strategies for Special Needs Students 3 hrs

Internship Requirements
EEX 3940 Internship I 3 hrs
EEX 4941 Internship II 9 hrs
7. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

8. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

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

10. Total Semester Hours Required 127 hours
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Recommended Four-Year Sequence of Courses

<table>
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<tr>
<th>Freshman Year</th>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
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<td>ENC 1102</td>
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<td>EEX 2010</td>
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<td>EEX 3241*</td>
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<td>RED 3012*</td>
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<td>EEX 4753+</td>
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FILM - B.F.A.
College of Arts and Sciences
School of Film and Digital Media
Film Division, COM 121, 407-823-3456
http://www.film.ucf.edu
E-mail: film@mail.ucf.edu
Division Head: S. Schlow, 407-823-0694

Limited Access Program

Admission Requirements
- The Film major is a limited access program.
- Entrance into most Film Classes is restricted to Majors. Exceptions must be approved by Division Head.
- Applications to become a Film major are required by December 31 for admission to the subsequent Fall term
- A portfolio review is required for entry into the Film major. Contact the Film Division for details.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of “B” (3.0) or better in Film major courses.
- Continuation in the Film Program requires a positive annual evaluation.
- A maximum of three credit hours of internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- Students must consult with a departmental advisor each semester.
- All students are required to pay a fee for equipment insurance.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Due to the conservative nature, the BFA demands a closely integrated curriculum. Therefore, transfers are not generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System may be admitted.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      Select one class from either 1.B.1 or 1.B.2 3 hrs
   C. Mathematical Foundations
      Select one class from either 1.B.1 or 1.B.2 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
   FIL 1007 History of Motion Pictures
   Select one class from either 1.B.1 or 1.B.2 3 hrs

3. Lower Level Core Requirements (18 hrs)
   FIL 2107 Script Analysis
   FIL 1008 Cinematic Expression/Aesthetic
   FIL 2274C Editing I
   FIL 2220 Directing I
   FIL 2220 Cinematography I
   FIL 2221 Acting for Film I

4. Upper Level Core Requirements (36 hrs)
   FIL 3222 Film Colloquium (Six semesters of Colloquium required at 1 hr each)
Complete the General Education Program, the Gordon Rule, the 30 of the last 36 hours of course work must be completed in res- 48 semester hours of upper division credit completed. 60 semester hours earned after CLEP awarded. A 2.0 UCF GPA

5. Upper Level Restricted Electives (15 hrs) Select five 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 3625 Interactive Entertainment
FIL 4210C Cinematography II
FIL 4293C Sound Design II
FIL 4294 Sound Design III
FIL 4294C Editing II
FIL 3300C Film Documentary
FIL 4228 Directing III

Screen Writing
FIL 4103 Adaptation
FIL 4112C Feature/TV Writing II
FIL 4113C Interactive Writing I
FIL 4114C Interactive Writing II
FIL 4900C Genre Writing

Cinema Studies
FIL 3520 Italian Film
FIL 3521 French Film
FIL 3522 German Film
FIL 3551 American Cinema
FIL 3412 Black Cinema
FIL 3309 Women in Film
FIL 3504C Film Theory and Criticism II

Digital Cinema
ART 2820 Art as Interface
ART 3613C Post-Production Design
DIG 3200C Digital Imagery
IDS 3701C Internet Software Design
DIG 4780 Modeling for Realtime Graphics
MUC 3311 MIDI Sequencing I
COP 3502C Computer Science I
ENC 4415 Digital Rhetoric & Modern Dialectic

6. Capstone Courses (6 hrs)
FIL 4210C 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 Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

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

Total Semester Hours Required: 120 hours

Related Programs: Animation, Art, Cinema Studies, Creative Writing, 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 1001, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
FIL 1007 may use any introductory film writing course. However, FIL 1007 is a prerequisite for all major courses and must be taken.

FILM - CINEMA STUDIES TRACK (B.A.)
College of Arts and Sciences
School of Film and Digital Media
Film Division, COM 121, 407-823-3456
http://www.film.ucf.edu
Division Head: S. Schlow, 407-823-0694

Admission Requirements

None

Degree Requirements
Students who change degree programs and select this major must adopt the most current catalog.
Students are required to maintain an overall average of “B” (3.0) or better in major courses.
Film production/directing classes are not open to Cinema Studies majors.

Cinema Studies Track is not an entree into the BFA Film Program
All students are required to pay a fee for equipment insurance
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
   Select one course from 1.B.1 list 3 hrs
   Select FIL2400 History of Motion Pictures 3 hrs
   Select one course from 1.B.1 or 1.B.2 list 3 hrs
C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   Prefer CGS 1060C Intro to Computer Science 3 hrs
   STA 2053 Statistics Using Excel 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
FIL 1007* Foundations of Story 3 hrs
*see Transfer Notes for possible substitutes

3. Core Requirements (42 hrs)
Select one course 3 hrs
FIL 3124 Short Script or
FIL 3102 Writing for Film and TV
FIL 2107 Script Analysis
FIL 2224C Foundations of Production 3 hrs
FIL 3006 Art of the Cinema 3 hrs
FIL 3252C Cinematic Expression/Aesthetics 3 hrs
FIL 3300C Film Documentary 3 hrs
FIL 3401 Film History I 3 hrs

UCF Degree Programs

UCF 155
4. Restricted Upper Division Electives  
Select from the following upper level FIL courses:
- FIL 3289 Cinema Director
- FIL 3309 Women in Film
- FIL 3410 History of Animated Films
- FIL 3412 Black Cinema
- FIL 3520 Italian Film
- FIL 3521 French Film
- FIL 3522 German Film
- FIL 3542 Cinema Criticism (writing)
- DIG 3855 Converging Media
- FIL 3625 Interactive Entertainment
- FIL 3514 International Cinema
- FIL 4906 Independent Study
- FIL 5609 Film and Internet Business

(a maximum of 6 hours Independent Study may be used)

5. Required Minor  
(18 hrs min)
Must be taken outside the Film Department.

6. Departmental Exit Requirements
- A student must maintain an overall average of “B” (3.0) or better in major courses.
- Computer competency met by CGS1060 or STA1060C.

7. Foreign Language Requirements  
(0-8 hrs)
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of 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 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 CLAST 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 Substitutes for Common Program Prerequisites
- FIL 2400 may substitute FIL 1001, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory course. However, FIL 1007 is a prerequisite for all Cinema Studies courses and must be taken.

FILM- WORLD CINEMA TRACK (B.A.)
College of Arts and Sciences
School of Film and Digital Media
Film Division, COM 121, 407-823-3456
http://www.film.ucf.edu
E-mail: film@ucf.edu
Division Head: S. Schlow, 407-823-0694

Limited Access Program
Admission Requirements
- The Film - World Cinemas track is a limited access program.
- Attain an overall minimum 2.5 GPA before applying.
- Students should apply to become Film majors only after completing all requirements for admission to the University.
- A portfolio and an interview are required for entry into the Film World Cinemas track.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of “B” (3.0) or better in courses within the major.
- A maximum of three credit hours on internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- Students should consult with a departmental advisor.
- Departmental residency requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program  
(36 hrs)
A. Communication Foundations  
9 hrs
B. Cultural and Historical Foundations
- Select one course from 1.B.1 list 3 hrs
- Select FIL 2400 History of Motion Pictures 3 hrs
- Select one course from 1.B.1 or 1.B.2 list 3 hrs
C. Mathematical Foundations
- Select MGF 1106 Finite Mathematics 3 hrs
- Select MGF 1106C Intro to Computer Sci or STA1060C Statistics Using Excel 3 hrs
D. Social Foundations  
6 hrs
E. Science Foundations  
6 hrs

2. Common Program Requirements  
(3 hrs)
FIL 2400* History of Motion Pictures  
GEP
FIL 2107* Script Analysis  
*See transfer notes for possible substitutions

3. Core Requirements  
(54 hrs)
FIL 1007 Foundations of Story 3 hrs
FIL 1009 Cinematic Expression for Majors 3 hrs
FIL 2107 Script Analysis  
CPP
FIL 2200 Cinematography I 3 hrs
FIL 2220 Directing I 3 hrs
FIL 2274C Editing I 3 hrs
FIL 3201C Introduction to Film Production 3 hrs
FIL 3292 Sound Design I 3 hrs
FIL 3300C Film Documentary 3 hrs
FIL 3304C Documentary Vision 3 hrs
FIL 3307 Docudrama 3 hrs
FIL 3401 Film History I 3 hrs
FIL 3503C Film Theory and Criticism I 3 hrs
FIL 3504C Film Theory and Criticism II 3 hrs
FIL 3510 World Cinema Traditions 3 hrs
FIL 4301C Documentary Workshop I 3 hrs
FIL 4302C Documentary Workshop II 3 hrs
FIL 4502 Film Business 3 hrs
FIL 4607 Film Production Management 3 hrs

5. Upper Level Restricted Electives  
(6 hrs)
Select two of the following
FIL 3513 Latin American Cinema
FIL 4564 Africana Cinema
FIL 4574 Images & Text in Context
Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
Select one: PSY 2012, SYG 2000, ANT 2000

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

   *At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors
   (30 hrs)
   Common Body of Knowledge
   First or subsequent semesters depending on major:
   - BUL 3130 Legal & Ethical Environments of Business
   - ECO 3411 Quantitative Business Tools II
   - FIN 3403 Business Finance
   - MAN 3025 Management of Organizations
   - ISM 3011 Essentials of Management Information Systems
   - MAR 3023 Marketing

   Last Semester:
   - MAN 4720 Strategic Management

4. Special College and/or Department Requirements
   Students who change degree programs and select this major must adopt the most current catalog.
   - Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
   - Students wanting to major in finance must apply for admission to the major.
   - Final exams will be given during exam week.
   - Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - A maximum of 6 hours of required or elective coursework can count toward another major or minor degree program.
   - Students majoring in finance must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. FIN 3403 is included in this requirement.
   - Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses
   (18 hrs)
   - FIN 3303 Financial Markets
   - FIN 3414 Intermediate Corporate Finance
   - FIN 3504 Investment Analysis
   - FIN 4453 Financial Models
   - Select two of the following:
     - FIN 3513 Management of Financial Institutions
     - FIN 4324 Commercial Bank Management
     - FIN 4514 Portfolio Analysis and Management
     - FIN 4521C Applied Portfolio Management I
     - FIN 4522C Applied Portfolio Management II
     - FIN 4533 Financial Derivatives
     - FIN 4604 International Financial Management
     - FIN 4424 Adv Topics in Financial Management

6. Restricted Electives
   (9 hrs)
   - Select three of the following:
     - ACG 3131 Financial Accounting Concepts
     - ACG 3141 Intermediate Financial Accounting
     - ACG 3361 Intermediate Managerial Accounting
     - ECQ 4412 Economic Statistics and Econometrics
     - FIN 3470 Financial Statement Analysis
     - FIN 4313 Management of Financial Institutions
     - FIN 4324 Commercial Bank Management
     - FIN 4424 Adv Topics in Financial Management
     - FIN 4514 Portfolio Analysis and Management
     - FIN 4533 Financial Derivatives
     - FIN 4604 International Financial Management
     - FIN 4730 Senior Financial Consulting I
     - FIN 4731 Senior Financial Consulting II
     - FIN 4906 Independent Study
Florida Public Community College students are advised to complete ACG X001 and X011 will substitute for ACG 2021 at UCF 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 X011 will substitute for ACG 2021 at UCF. A maximum of 45 hours of extension, correspondence, CLEP, or the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable) is allowed. 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, and you can take advantage of both.

Completion of the General Education Program, the Gordon Rule, and college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior or senior) course areas and cannot be satisfied with freshman, sophomore level courses.

A minimum of 12 semester hours must be completed at UCF within each individual major.

Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

### 7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

### 8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after 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 hours

### Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior or senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

### FOUR YEAR PLAN OF STUDY - FINANCE

#### Freshman

<table>
<thead>
<tr>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101*</td>
<td>3</td>
<td>ENC 1102*</td>
<td>3</td>
</tr>
<tr>
<td>Cul-Hist I*</td>
<td>3</td>
<td>Cul-Hist II*</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3</td>
<td>Art/Music/Lit</td>
<td>3</td>
</tr>
<tr>
<td>***Elective</td>
<td>3</td>
<td>MAC 1105*</td>
<td>3</td>
</tr>
<tr>
<td>***Elective</td>
<td>3</td>
<td>EOS 2100C*</td>
<td>3</td>
</tr>
</tbody>
</table>

Must complete nine hours in a summer semester

#### Sophomore

<table>
<thead>
<tr>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2023*</td>
<td>3</td>
<td>ECO 2013*</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2021*</td>
<td>3</td>
<td>ACG 2071*</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
<td>Science</td>
<td>3</td>
</tr>
</tbody>
</table>

| 3 | **Elective | 3 |
| 3 | ECO 3401* | 3 |

#### Junior

1st Term | 15 hrs | 2nd Term | 15 hrs |
**GEB 3031** | 6 | FIN 3303 | 3 |
**GEB 3356** | 3 | FIN 3414 | 3 |
**MAC 2023** | 3 | ECO 3411 | 3 |
**FIN 3403** | 3 | MAN 3025 | 3 |
**FIN 3504** | 3 | MAN 4720 | 3 |
**ISM 3011** | 3 | **Elective | 3 |
**FIN Elective** | 3 | FIN 4453 | 3 |
**FIN Elective** | 3 | **Elective | 3 |
**FIN Elective** | 3 | **Elective | 3 |

***General electives as required to reach 120 semester hours. The department recommends completing FIN 2104 (Personal Finance) prior to the junior year.

### FOREIGN LANGUAGE EDUCATION - FRENCH (B.S.)

#### College of Education

Department of Teaching and Learning Principles, ED209
http://www.edcollege.ucf.edu/
Program Coordinator: Dr. Karen Verkler
ED 220-C, 407-823-5235
E-mail: kverkler@mail.ucf.edu

### Admission Requirements
- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

### Degree Requirements:
- Students should see an advisor

#### 1. UCF General Education Program (36 hrs)
- Communication Foundations (9 hrs)
  ENC 1101 Composition I 3 hrs
  ENC 1102 Composition II 3 hrs
  SPC 1600 Fundamentals of Oral Communication 3 hrs
- Cultural-Historical Foundations (9 hrs)
  AMH 2010 U.S. History 1492-1877 3 hrs
  AMH 2020 U.S. History 1877-Present 3 hrs
  PHI 2010 Introduction to Philosophy 3 hrs
- Mathematical Foundations (6 hrs)
  MGF 1106 Finite Mathematics 3 hrs
  Select one: 3 hrs
- STA 1060C Basic Statistics using MS Excel or STA 2104C Principles of Statistics 3 hrs
- Social Foundations (6 hrs)
  POS 2041 American National Government 3 hrs
  PSY 2012 General Psychology 3 hrs
- Science Foundations (6 hrs)
  PSC 1121 Physical Science 3 hrs
  Select one: 3 hrs
- ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

Note: See laboratory component under Section 2.

#### 2. Common Program Prerequisites (25 hrs)
- Communications (9 hrs)
  ENC 1101 Composition I 3 hrs
  ENC 1102 Composition II 3 hrs
  SPC 1600 Fundamentals of Oral Communication 3 hrs
- Humanities (6 hrs)
  PHI 2010 Introduction to Philosophy 3 hrs
  Select one:
  ARH 2050 History of Western Art I or ARH 2051 History of Western Art II 3 hrs
  MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures 3 hrs
- Mathematics (9 hrs)
  MAC 1105 College Algebra 3 hrs
  MGF 1106 Finite Mathematics 3 hrs
- Sociology (3 hrs)
  GEB 3031 Principles of Risk and Insurance 3 hrs
- Economics (3 hrs)
  ECO 2023* 3 ECO 2013* 3
- Business Tools (3 hrs)
  RMI 3011 Principles of Risk and Insurance 3 hrs
- Statistics (3 hrs)
  STA 2014C Principles of Statistics 3 hrs
  Select one:
  STA 1060C Basic Statistics using MS Excel or STA 2104C Principles of Statistics 3 hrs
- Political Science (3 hrs)
  POS 2041 American National Government 3 hrs
  PSY 2012 General Psychology 3 hrs
- Science (6 hrs)
  PSC 1121 Physical Science 3 hrs
  Select one:
  ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

Note: See laboratory component under Section 2.
One of the following (per GEP)  

STA 1060C  Basic Statistics using MS Excel or  

STA 2014C  Principles of Statistics  

D. Social Science/History  (12 hrs)  

AMH 2010  U.S. History 1492-1877  

AMH 2020  U.S. History 1877-Present  

POS 2041  American National Government  

PSY 2012  General Psychology  

E. Science  (9 hrs + lab)  

PSC 1121  Physical Science  

One of the following (per GEP)  

ANT 2511  The Human Species or  

BSC 1005  Biological Principles  

Select one:  

AST 2002  Astronomy or  

GEO 1200  Physical Geography or  

GLY 1030  Geology and its Applications  

Select one associated science lab:  

1 hr  

BSC 1005L  Biological Principles Laboratory or  

F. Education Courses  (9 hrs)  

EDF 2005  Introduction to Education  

EDG 2701  Teaching Diverse Populations  

EME 2040  Technology for Educators  

G. Diversity Courses  

H. Other Program Prerequisites  (6 hrs)  

Note: FRE 2270 Intermediate French Study Abroad (8 hrs) may be taken in place of FRE 2200 and FRE 2201:  

3. Education Core Requirements  (15 hrs)  

EDG 4323  Professional Teaching Practices  

EDF 4603  Analysis of Critical Issues in Education  

EDF 4214  Classroom Learning Principles  

TSL 4080  Theory and Practice of Teaching ESOL  

Students in Schools  

RED 4043  Content Reading K-12  

4. Internship I (ESE3940)  (3 hrs)  

Program Internship I Prerequisites: EDG 4323, EDF 4214, FRE 4314, FRE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I with a minimum grade of “C-” in all of these prerequisite courses  

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

5. Specialization Requirements  (21 hrs)  

FLE 4333  For Lang Tch in the Secondary School  

FLE 4314  For Lang Tch in the Elementary School  

FRE 3300  French Grammar  

FRE 3420  French Composition  

FRE 3760  Advanced French Oral Composition  

FRW 3100  Survey of French Literature I  

FRW 3101  Survey of French Literature II  

6. Upper Division Restricted Electives  (9 hrs)  

Select three upper division (3000 or 4000 level) courses in French with advisor’s approval. Students are encouraged to select from the following courses:  

FRE 4421  Advanced French Conversation  

FRE 4422  Advanced French Composition  

FRE 4500  French Civilization and Culture  

Any FRW 3/4XXX with Advisor’s approval.  

7. Other Cognate Requirements  (3 hrs)  

Select one of the following:  

3 hrs  

FRE 3703  French Phonetics and Diction  

LIN 4643  Cross-Cultural Communication  

8. Internship II (ESE4943)  (12 hrs)  

At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II  

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

Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065  

9. Foreign Language Requirements  (0-8 hrs)  

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

10. Departmental Exit Requirements  

Achieve a minimum 2.5 GPA in all courses within the major.  

Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.  

Pass all applicable sections of the Florida Teacher Certification Examination.  

11. University Minimum Exit Requirements  

A 2.0 UCF GPA  

60 semester hours earned after CLEP awarded  

48 semester hours of upper division credit completed  

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

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

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

12. Total Program Semester Hours Required  124 hours  

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.  

13. Recommended Four-Year Sequence of Courses  

Freshman Year  

Fall (12 hrs)  

EDF 2005  3 hrs  

EDG 2701  3 hrs  

EME 2040  3 hrs  

RED 4043  3 hrs  

Summer (6 hrs)  

EME 2040  3 hrs  

PHI 2010  3 hrs  

Sophomore Year  

Fall (15 hrs)  

AMH 2010  3 hrs  

BSC 1005  3 hrs  

FRE 3300  3 hrs  

FRW 3100  3 hrs  

FrWr 3101  3 hrs  

STA 2014C  3 hrs  

Summer (6 hrs)  

TSL 4080  3 hrs  

Junior Year  

Fall (15 hrs)  

EDF 4214  3 hrs  

EDG 4323  3 hrs  

FRE 3300  3 hrs  

FRE 3420  3 hrs  

FRW 3100  3 hrs  

STA 2014C  3 hrs  

FRE 3760  3 hrs  

Any FRW 3/4XXX with Advisor’s approval.  

Senior Year  

Fall (12 hrs)  

EDF 4603  3 hrs  

ESE 3940  3 hrs  

ESE 4943  3 hrs  

Summer (6 hrs)  

FRE 3703  3 hrs  

LIN 4643  3 hrs  

UCF Degree Programs
FOREIGN LANGUAGE EDUCATION- SPANISH (B.S.)

College of Education
Department of Teaching and Learning Principles

ED 209

http://www.edcollege.ucf.edu/
Program Coordinator: Dr. Karen Verkler
ED 220-C, 407-823-5235
E-mail: kverkler@mail.ucf.edu

Degree Requirements
Students should see an advisor

1. UCF General Education Program (36 hrs)

A. Communications Foundation (9 hrs)
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs

B. Cultural-Historical Foundations (9 hrs)
AMH 2010 U.S. History 1492-1877 3 hrs
AMH 2020 U.S. History 1877-Present 3 hrs

C. Mathematical Foundations (6 hrs)
MGF 1106 Finite Mathematics 3 hrs

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)

A. Communications
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs

B. Humanities
PHI 2010 Introduction to Philosophy 3 hrs

C. Mathematics
MAC 1105 College Algebra 3 hrs
MGF 1106 Finite Mathematics 3 hrs

D. Social Science/History
AMH 2010 U.S. History 1492-1877 3 hrs

E. Science
PSC 1121 Physical Science 3 hrs

3. Education Core Requirements (15 hrs)

EDG 4323 Professional Teaching Practices 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
EDF 4214 Classroom Learning Principles 3 hrs
TSL 4080 Theory and Practice of Teaching ESL 3 hrs

4. Internship I (ESE 3940) (3 hrs)
Program Internship I Prerequisites: EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed prior to Internship I with a minimum grade of "C" in all these prerequisite courses.

5. Specialization Requirements (21 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 Comp 3 hrs
SPN 3420 Spanish Composition 3 hrs
SPN 4370 Advanced Spanish Oral Communication 3 hrs
SPW 3100 Survey of Spanish Literature I 3 hrs
SPW 3101 Survey of Spanish Literature II 3 hrs

6. Upper Division Restricted Electives (9 hrs)
Select three upper division (3000 or 4000 level) courses in Spanish with advisor’s approval. Students are encouraged to select from the following courses:
SPN 4421 Advanced Spanish Composition
SPN 4510 Spanish Civilization and Culture
SPN 4520 Latin American Civilization and Culture
Any SPN 4xxx with advisor’s approval

7. Other Cognate Requirements (3 hrs)
Select one of the following:
LIN 4643 Cross-Cultural Communication
SPN 4375 Bilingualism

8. Internship II (ESE4943) (12 hrs)
At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II
See additional requirements under College of Education, Office of Clinical Experiences
Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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

10. Departmental Exit Requirements
Achieve a minimum 2.5 GPA in all courses within the major.
Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
Pass all applicable sections of the Florida Teacher Certification
11. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Semester Hours Required 124 hrs
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

13. Recommended Four-Year Sequence of Courses

Freshman Year
Fall  (12 hrs) Spring (16 hrs)
- EDF 2005 3 hrs  EDG 2701 3 hrs
- ENC 1101 3 hrs  ENC 1102 3 hrs
- MGF 1106 3 hrs  MAC 1105 3 hrs
- PSY 2012 3 hrs  POS 2041 3 hrs
- PSC 1121 3 hrs  PSC 1121L 1 hr

Summer (6 hrs)
- EME 2040 3 hrs
- PHI 2010 3 hrs

Sophomore Year
Fall (15 hrs) Spring (12 hrs)
- ANH 2010 3 hrs  AMH 2020 3 hrs
- BSC 1005 3 hrs  AST 2002 3 hrs
- SPC 1000 3 hrs  SPN 2231 or 3 hrs
- SPN 2230 3 hrs  SPN 2232 with 3 hrs
- STA 2014C 3 hrs  advisor's consent

Senior Year
Fall (12 hrs) Spring (12 hrs)
- EDF 4603 3 hrs  ESE 4943 12 hrs
- ESE 3940 3 hrs
- SPW 3100 or 3 hrs
- SPW 3131 3 hrs
- Upper division restricted elective (SPW 4XXX) 3 hrs

Junior Year
Fall (15 hrs) Spring (12 hrs)
- TSL 4080 3 hrs

Summer (3 hrs)
- TSL 4080 3 hrs

1. UCF General Education Program (39 hrs)
- A. Communication Foundations
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations 6 hrs
- E. Science Foundations

2. Common Program Prerequisites (16 hrs)
- BSC 2010C Biology I GEP
- CHM 2045C* Chem Fund I 4 hrs
- CHM 2311 Calculus w/ Anal Geometry I GEP
- MAC 2311 Calculus w/ Anal Geometry I GEP
- MAC 2312 Calculus w/ Anal Geometry II 4 hrs
- PHY 2048 & L* Physics Engr. & Sci I & Lab 4 hrs
- PHY 2049 & L* Physics Engr. & Sci. II & Lab 4 hrs

3. Core Science and Math Requirements (21 hrs)
- BSC 2010C Biology I GEP
- CHM 2120 Organic Chem. I 3 hrs
- CHM 2211 Calculus w/ Anal Geometry I GEP
- MAC 2311 Calculus w/ Anal Geometry I GEP
- MAC 2312 Calculus w/ Anal Geometry II 4 hrs
- PHY 2048 & L* Physics Engr. & Sci I & Lab 4 hrs
- PHY 2049 & L* Physics Engr. & Sci. II & Lab 4 hrs

4. Forensic Science Core (19 hrs)
- CHS 3501 Intro to Forensic Science 3 hrs
- CHS 3505C Forensic Microscopy 4 hrs
- CHS 4537 Forensic Lab Quality Assurance 2 hrs
- CHS 3595 Foren Sci in the Courtroom 3 hrs
- CHS 3523C Forensic Biochemistry II 3 hrs
- CHS 4591 Forensic Science Internship 4 hrs

5. Forensic Analysis Track (B.S.)

FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)
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.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

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

9. University Minimum Exit Requirements

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

Total Semester Hours Required: 124 hours

Related Programs: Chemistry, Forensic Biochemistry Track
Related Minors: Chemistry

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- CHM 2045C*: may use CHM 1040 plus CHM 1041
- MAC 2311* & 2312*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048 & Lab* and 2049 & Lab*: Although CPP requirements permit substitution by Organic Chemistry (CHM 2210 & 2211), PHY 2048 & L, PHY 2049 & L, CHM 245, and CHM 246 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.

Summer
Chem test See catalog 0
Math test See catalog 0
2. Common Program Prerequisites (16 hrs)

- BSC 2010C Biology I 4 hrs
- CHM 2045C Chem Fund I 4 hrs
- CHM 2046 & L Chem Fund II with lab 4 hrs
- MAC 2311* Calculus & Anal Geo I GEP 4 hrs
- MAC 2312* Calculus & Anal Geo II GEP 4 hrs
- PHY 2048 & L Physics Science & Eng I GEP 4 hrs
- PHY 2049 & L Physics Science & Eng II GEP 4 hrs

3. Core Science and Mathematics Requirements (21 hrs)

- BSC 2010C Biology I 4 hrs
- CHM 2210 Organic Chem. I 3 hrs
- CHM 2211 & L Organic Chem. II with lab 5 hrs
- CHM 3120C Analytical Chemistry 5 hrs
- STA 2023 Statistical Methods I GEP 4 hrs
- PCB 3063 L Genetics 4 hrs
- PCB 3233 & L Immunology 4 hrs
- MAC 2311 Calculus & Anal Geo I GEP 4 hrs
- MAC 2312 Calculus & Anal Geo II GEP 4 hrs
- PHY 2048 & L Physics Science & Eng I GEP 4 hrs
- PHY 2049 & L Physics Science & Eng II GEP 4 hrs

4. Forensic Science Core (10 hrs)

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

5. Forensic Biochemistry Track (29 hrs)

- MCB 3020C General Microbiology 5 hrs
- BCH 4053 Biochemistry I 3 hrs
- BCH 4054 Biochemistry II 3 hrs
- BCH 4103L Biochemical Methods Lab 2 hrs
- PCB 3522 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- BSC 3403C Quantitative Biological Methods 4 hrs
- CHS 4534C Forensic Biochemistry II 3 hrs
- CHS 4532 Interpretation of DNA Evidence 3 hrs

6. Departmental Exit Requirements

- Achieve 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.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

7. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the
UCF Degree Programs

FRENCH (B.A.)
College of Arts and Sciences
Department of Modern Languages & Literatures
CNH 523, http://www.cas.ucf.edu/forlang
E-mail: Modernlanguages@ucf.edu
P. Giordano, 407-823-2472

Admission Requirements
None

Placement in Language courses
Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above
- At least six of the 36 French credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in French
- Earn at least a "C" (2.0) in each upper division French course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures

Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   Prefer STA 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* Intermed French Lang & Civ I 3 hrs
   FRE 2201* Intermed French Lang & Civ II 3 hrs
   * May be met by proficiency test or completion of FRE 2201

3. Core requirements (21 hrs)
   FRE 3300* Advanced Grammar 3 hrs
   FRE 3420 French Composition or 3 hrs
   or
   FRE 4422 Advanced French Composition
   FRE 3760* Adv French Oral Communication or 3 hrs
   or
   FRE 4421 Advanced French Conversation
   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
   FSL 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
   (taught in French)
   French courses 9 hrs

5. Departmental Exit Requirements
   - Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division French courses
   - Students are required to satisfactorily complete a departmental exit exam
   - Students must submit their portfolio to their French Faculty Advisor
   - Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
   Admission: Met by Graduation requirements.
   Graduation: Met by Common Program Prerequisites.

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

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

Total Semester Hours Required 120 hrs

Related Programs: Spanish, Foreign Language Combination
Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

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

GENERAL BUSINESS (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: B. Moore, BA 466, 407-823-5256, bmoore@bus.ucf.edu

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
   Select MAC 1105 College Algebra 3 hrs
   Select MAC 2233 Calculus for Business and Social Science 3 hrs
   D. Social Foundations
   Select ECO 2013 Macroeconomics or 3 hrs
   or
   Select ECO 2023 Microeconomics
   E. Science Foundation 6 hrs

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better.
   ACG 2011 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics

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

Related Programs: Spanish, Foreign Language Combination
Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

Graduation:
- Met by Graduation requirements.
- Met by Common Program Prerequisites.

Admission:
- Met by Graduation requirements.
- Met by Common Program Prerequisites.

Placement in Language courses
Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above
- At least six of the 36 French credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in French
- Earn at least a "C" (2.0) in each upper division French course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures

Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   Prefer STA 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* Intermed French Lang & Civ I 3 hrs
   FRE 2201* Intermed French Lang & Civ II 3 hrs
   * May be met by proficiency test or completion of FRE 2201

3. Core requirements (21 hrs)
   FRE 3300* Advanced Grammar 3 hrs
   FRE 3420 French Composition or 3 hrs
   or
   FRE 4422 Advanced French Composition
   FRE 3760* Adv French Oral Communication or 3 hrs
   or
   FRE 4421 Advanced French Conversation
   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
   FSL 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
   (taught in French)
   French courses 9 hrs

5. Departmental Exit Requirements
   - Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division French courses
   - Students are required to satisfactorily complete a departmental exit exam
   - Students must submit their portfolio to their French Faculty Advisor
   - Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
   Admission: Met by Graduation requirements.
   Graduation: Met by Common Program Prerequisites.

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

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

Total Semester Hours Required 120 hrs

Related Programs: Spanish, Foreign Language Combination
Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.
3. Required for All Business Majors (30 hrs)
First Semester in the College of Business Administration:
- GEB 3031 Cornerstone 6 hrs
- GEB 3356 Introduction to Internship Business 3 hrs
First or subsequent semesters depending on major:
- BUL 3130 Legal & Ethical Environments of Business 3 hrs
- ECO 3411 Quantitative Business Tools I 3 hrs
- FIN 3403 Business Finance 3 hrs
- MAN 3025 Management of Organizations 3 hrs
- ISM 3011 Essentials of Management Info Sys 3 hrs
- MAR 3023 Marketing 3 hrs
Last Semester:
- MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- Potential 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 an average grade of “C” (2.0) or better in each course applied towards the major, and a 2.0 overall average in the major.

5. Second Level Core (5 courses):
- Students must take one course from each of the following areas: Accounting (must take ACG 3131), Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:

Accounting
- ACG 3131 Intermediate Managerial Accounting
- ACG 3361 Federal Income Tax I

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

Finance
- FIN 3303 Financial Markets
- FIN 3414 Intermediate Corporate Finance
- FIN 3504 Investment Analysis

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

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

6. Restricted Electives (four courses): (12 hrs)
Restricted electives are to be taken from three different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.

8. Foreign Language Requirements (0-8 hrs)
- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: none

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

10. Electives*** (variable)
- Total Semester Hours Required 120 hours
- **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, 407-823-2369
Undergraduate Program Director: Thomas Falen
E-mail: tfalen@mail.ucf.edu
Web Address: http://www.cohpa.ucf.edu/health.pro/

Admission Requirements
- Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division health information management program.

- Separate Application to the limited access program must be made directly to the program prior to March 1 of the year admission is sought.
- UCF application must also be submitted by the program deadline of March 1st. Acceptance to UCF is necessary before acceptance to the program can occur.
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.
- All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of “C” (2.0)

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...
UCF Degree Programs

(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 3
      Select STA 2014C 4
   D. Social Foundations 6 hrs
      Select BSC 2010C 4
      Select CHM 1022 4

2. Common Program Prerequisites (17 hrs)
   ZOO 3733C Human Anatomy* 4 hrs
   PCB 3703C Human Physiology* 4 hrs
   STA 2014C Statistics GEP 3 hrs
   CGS 2100C Computer Science for Business* 3 hrs
   ACG 2021 Principles of Financial Accounting 3 hrs
   ACG 2071 Principles of Managerial Accounting 3 hrs
   * 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 Pathophysiology Mechanisms 3 hrs
   MAN 3025 Management of Organizations or
   HSA 4180 Organization Management for Health Agencies 3 hrs
   HIM 3006 Foundations of Health Information Management 3 hrs
   HIM 3116C Health Record Organization & Management 4 hrs
   HIM 3806L Professional Practice Exp. I 4 hrs
   HIM 3816L 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
   HUM 4344C Health Information Department Management 4 hrs
   HIM 4506 Quality Management 3 hrs
   HIM 4838 Management Affiliation 5 hrs
   HIM 4856C Health Information Management Systems 3 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)
   A minimum 2.5 overall GPA is required for graduation.
   Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements (120 hrs)
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the 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 2086) 8
  - Statistics (STA 2014C or any other statistics course) 3
  - Computer Science for Business (CGS 1060C or any other computer science course) 3

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

<table>
<thead>
<tr>
<th>Freshman Year*</th>
<th>Fall</th>
<th>14 hrs</th>
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<td>ENC 1101</td>
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<td>ENC 1102</td>
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<td>CHM 1032</td>
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<td>STA 2014C</td>
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<td>HIM 3006</td>
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<td>CSC 2010C</td>
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<tr>
<td>MAC 1105</td>
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<td>EUH 2000 or HUM 2211</td>
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<tr>
<td>PSY 2012 or SYG 2000</td>
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<td>or AMH 2010</td>
<td>3</td>
<td></td>
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<tr>
<td>or ANT 2000</td>
<td>3</td>
<td>POS 2041 or ECO 2013</td>
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*Plan your required nine summer hours into your course of study

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<th>Sophomore Year</th>
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<td>ZOO 3733C</td>
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<td>PCB 3703C</td>
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<td>or AMH 2020</td>
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<td>CGS 2100C</td>
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<tr>
<td>or AMH 2020</td>
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<td>ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120</td>
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<table>
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<tr>
<td>HSC 4550**</td>
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<td>HSC 3161C</td>
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<td>HSC 3806L</td>
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<tr>
<td>or HSA 4180</td>
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<td>HSC 3531**</td>
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<td>HSC 3640**</td>
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<td>HSC 4656C</td>
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<td>HSC 4656C</td>
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<tr>
<td>HSC 4256C</td>
<td>3</td>
<td>HSC 4702**</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Summer 5 hrs

HIM 4638 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.cohpa.ucf.edu/health.pro/athletic
E-mail: kcschellh@mail.ucf.edu
Undergraduate Program Director: Kristen C. Schellhase, MEd, ATC, ATCS

Admission Requirements

Students may only begin the athletic training program track in the Summer semester and must have:
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 established the essential qualities considered necessary for students admitted to the program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation of Allied Health Education Programs (CAAHEP)). The following abilities and expectations must be met by all students admitted to the 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 NATABOC certification exam.

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 determine whether it agrees that the student can meet the 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 internships deemed essential to graduation. Each candidate must provide a copy of a recent physical examination that will be evaluated by the program’s medical director.

Degree Requirements

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

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common 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.

3. Professional Phase (58 hrs)
   - The following courses are required to complete the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of “C” (2.0) or better.

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)
   - Two years of successful clinical rotation under the direct supervision of a certified Athletic Trainer (ATC).

6. Electives (variable)

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none
### UCF Degree Programs

#### 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

<table>
<thead>
<tr>
<th></th>
<th>120 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related Programs:</td>
<td>Aging Studies Certificate, Business, Public Administration</td>
</tr>
<tr>
<td>Related Minors:</td>
<td>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.</td>
</tr>
</tbody>
</table>

#### Transfer Notes:
- Biology I with Lab (BSC 1010/L) 4 hrs
- Human Anatomy and Physiology I & II (BSC X093 and X089 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

<table>
<thead>
<tr>
<th>Freshman Year*</th>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>14 hrs</th>
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<tr>
<td>ENC 1101</td>
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<td>PET 4606</td>
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<td>PET 4673C</td>
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<td>HSA 4704</td>
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### HEALTH SCIENCES - GENERALIST TRACK (B.S.)

**College of Health and Public Affairs**

HPA2 210, 407-823-2369

**Undergraduate Program Director:** Thomas Falen

**Web Address:** [http://www.cohpa.ucf.edu/health.pro](http://www.cohpa.ucf.edu/health.pro)

**Purposes of this degree:** Provides an opportunity for credentialed health care professionals to expand scope of their education through completion of courses both within and outside of their discipline and to enable students considering a health services career to complete courses in several disciplines in order to make informed career decisions.

**Admission Requirements**

- none

**Degree Requirements**

- Students should complete the General Education Program and the Common Program Prerequisites requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn at least a “C” (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below)
- No transfer course will be accepted with a grade lower than a “C+”
- Students who change degree programs and select this major must adopt the most current catalog
- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty

#### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- Select MUL 2010 Enjoyment of Music or REL 2300
- Select STA 2014C Principles of Statistics or PHI 2010 Intro to Philosophy
- C. Mathematical Foundations 6 hrs
- Select MAC 1105 College Algebra
- Select STA 2014C Principles of Statistics or STA 2023 Statistical Methods I
- D. Social Foundations 6 hrs
- Select STA 2014C Principles of Statistics or STA 2023 Statistical Methods I
- E. Science Foundations 6 hrs
- Select PHY 2053C College Physics I and Lab

#### 2. Common Program Prerequisites (0 hrs)

- MAC 1105 College Algebra
- STA 2014C Principles of Statistics or STA 2023 Statistical Method I
- BSC 2010C Biology I

#### 3. Core Requirements - Lower Division (14 hrs)

- CGS 2100C Computer Fundamentals for Business or
- CGS 1060C Intro to Computer Science
- CHM 1032 General Chemistry
- ECO 2023 Microeconomics
- HSC 2000 Intro to the Allied Health Professions
- MAC 1114 College Trigonometry

#### Core Requirements - Upper Division (48 hrs)

- HIM 3006 Foundations of Health Info Mngmnt
- HSA 3111 US Healthcare Systems
- HSA 4109 Managed Care
- HSA 4201 Community Health Services
- HSA 4180 Org & Mgt of Health Agencies or
- PET 4660C Org & Admin of Athletic Training
- HSA 4191 Health Care Automation
- HSA 3222 Long Term Care Administration
- HSA 4702 Health Sciences Research Methods
- HSC 3101C Medical Self Assessment
- HSC 3531 Medical Terminology
- HSC 3640 Health Law
- HSC 4243 Analysis of Instruction
- HSC 4500 Epidemiology
- HSC 4564 Healthcare Needs of the Elderly or
- PHT 3259 Patient Care Skills
Tentative Course Schedule for Entering Freshmen

University foreign language admission requirements for graduation. Students that transfer with an AA degree and will be pursuing a BS degree must meet the Associate of Arts Degree recommendation. Students that transfer with a degree option might lead: Physical Therapy, Social Work, Health Administration, Professional graduate study disciplines to which this degree option might lead: Physical Therapy, Social Work, Health Services Administration.

Transfer Notes:
Associate of Arts Degree recommended. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

4. Lower Level Electives (0-5 hrs)
Number of hours depends upon the number of foreign language language hours required.

5. Upper Division Restricted Electives (0-15 hrs)
Up to 15 hours from related health science programs with departmental approval.

6. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

7. Program Exit Requirements (120 hrs)
The students must attain a minimum grade of “C” (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3, and 4).

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

Total Semester Hours Required 120 hours

Related Programs:
The participating student may also consider applying for consideration to one or more of the following undergraduate professional degree options: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration. Professional graduate study disciplines to which this degree option might lead: Physical Therapy, Social Work, Health Services Administration.

Related Minors: None

Transfer Notes:
Associate of Arts Degree recommended. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall
ENC 1101 3
CGS 1060C or CGS 2100C 3
CHM 1032 3
MAC 1105 3
HSC 2000 2

Spring
ENC 1102 3
POS 2041 3
BSC 2100C 4
PSY 2012 3
ECO 2023 3

Sophomore Year

Fall
PHY 2053C 4
MAC 1114 3
SPC 1600 3
EUH 2000 or HUM 2211 3
or AMH 2100 3
Foreign Lang I* or other lower level courses 2/4

Fall
MUL 2010 or REL 2300 3
or THE 2000 or PHI 2100 3
STA 2014C or STA 2023 3
Foreign Lang II* or other lower level courses 3/4

Spring
HSC 3110C 3
HUM 3105 3

Spring
HSA 4180 or PET 4660C 5
HSA 4222 3

Junior Year

Fall
HSA 3501 3

Spring
HSA 4180 or PET 4660C 5
HSA 4222 3

Senior Year

Fall
HSA 4472 3
MAC 1115 3
HSA 4504 or PHT 3259 3
HSA 4191 3
Elective (if needed) 3

Spring
HSA 4472 3
HSA 4191 3
Elective (if needed) 3

Health Services Administration (B.S)

College of Health and Public Affairs

HPA 2 210, 407-823-2359
http://www.cohpa.ucf.edu/health.pro/

Executive Director of HSA Programs: Myron Fottler
Undergraduate Program Director: Thomas Falen
Graduate Program Director: Dawn Oetjen

This program is also 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.

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 and the Common Program Prerequisites before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- UCF Residency Requirement: 30 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
     - Select MAC 1105
     - Select STA 2014C or 2023
   - D. Social Foundations 6 hrs
     - Select ECO 2023
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)
   - CGS 2100C Computer Fund for Business Applications or
   - CGS1060C Intro to Computer Science
   - ECO 2023 Microeconomics
   - ACG 2021 Financial Accounting
   - ACG 2071 Managerial Accounting
   - STA 2014C or STA 2023
   - Students must earn a “C” (2.0) or better in each Common Program Prerequisite course.

3. Core Requirements (45 hrs)
   - HSA 3111 U.S. Health Care Systems 3 hrs
   - HSA 3170 Health Care Finance 3 hrs
   - HSA 3222 Long Term Care Administration 3 hrs
   - HSA 4109 Principles of Managed Care 3 hrs
   - HSA 4201 Community Health Services 3 hrs
   - HSA 4180 Organization and Management for Health Agencies 3 hrs
   - HSA 4191 Health Care Automation 3 hrs
   - HSA 4502 Risk Management or 3 hrs
   - HIM 4506 Quality Management 3 hrs

UCF Degree Programs
UCF Degree Programs

HSA 4702  Health Sciences Research Methods  3 hrs
HSC 3531  Medical Terminology  3 hrs
HSC 3640  Health Law  3 hrs
HSC 4500  Epidemiology  3 hrs
HSC 4564  Health Care Needs of the Elderly  3 hrs
HSC 4653  Health Care Ethics  3 hrs
HSA 3430  Health Care Economics  3 hrs

Students must earn a “C” (2.0) or better in each Core Requirement course.

4. Upper Division Restricted Electives  none

5. Program Exit Requirements  (120 hrs)
Students must earn a “C” (2.0) or better in each Health Services Administration elective course.

6. Electives  (variable)
Students are encouraged to take additional Health Service Administration courses as electives or other courses that will enhance their background in the health care industry. These may be used to build minors and certificates offered by the University. Examples include: Health Sciences, Aging Studies, Public Administration, Criminal Justice, and Business. HSA elective courses include:

- HSA 4941  HSA Internship
- HIM 4656C  Health Information Management Systems
- HIM 3006  Foundations of Health Information Management
- HIM 4506  Quality Management

7. Foreign Language Requirements  (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none
Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

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

Total Semester Hours Required  120 hours

Related Programs: Aging Studies Certificate, Public Administration, Health Information Management

Related Minors: Aging Studies, Health Information Management, Health Sciences, Information Systems, and Public Administration. Courses leading to a Certificate in Aging Studies are appropriate.

Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall 14 hrs
ENC 1101  3
PSY 2012 or SYG 2000  3
or ANT 2000  3
HSC 2000  2
MAC 1105  3
Elective  3

Spring 15 hrs
ENC 1102  3
ECO 2013  3
PSC 1121 or CHM 1020  3
MUL 2010 or THE 2000  3
or REL 2300 or PHI 2010  3
SPC 1900  3

Sophomore Year

Fall 15 hrs
ACG 2021  3
ECO 2023  3
BSC 1005  3
or EUN 2000 or HUM 2211 or AMH 2010 or WOH 2012  3
CGS 2100C  3

Spring 15 hrs
ACG 2071  3
STA 2033  3
HSA 3111  3
or EUN 2001 or HUM 2230 or AMH 2020 or WOH2022  3
Elective  3

Summer 8 hrs
Foreign Language I  4
Foreign Language II  4
(if not satisfied in high school)

Junior Year

Fall 15 hrs
HSC 4500*  3
HSA 4191  3
HSA 3222  3
HSC 3531  3
HSA 4180  3
HSA 4201  3
Elective  3

Spring 15 hrs
HSC 4653  3
HSA 4199  3
HSA 4109  3
HSA 4702  3
Elective  3

Senior Year

Fall 15 hrs
HSA 3430  3
HSC 4564  3
HSC 3640  3
HSC 4500  3
HSA 4180  3
HSA 4502 or HIM 4506  3
Elective  3

Spring 15 hrs
HSC 4653  3
HSA 4180  3
Internship  3
Elective  3

Notes:
Students are urged to have access to a personal computer, modem, and appropriate software to interact with the University and professors.

A variety of internship opportunities are available for HSA majors. An internship is not required but highly recommended.

HISTORY (B.A.)

College of Arts and Sciences

History Department, CNH 551, http://pegasus.cc.ucf.edu/~history
E-mail: history@ucf.edu
E. Kallina, 407-823-2224

Admission Requirements  none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a “C” (2.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department
- Students must compile a portfolio of their written work in history, completed inside and outside the classroom
- Students must complete 36 hours in history
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program  (36 hrs)
- A. Communication Foundations  9 hrs
- B. Cultural and Historical Foundations  3 hrs
  - Select AMH 2010 US History: 1492-1877  3 hrs
  - Select AMH 2020 US History: 1877-Present  3 hrs
  - Select one class from 1.B.2 list  3 hrs
- C. Mathematical Foundations  3 hrs
  - Select MGF 1106 Finite Mathematics (may substitute a higher level math)  3 hrs
  - Prefer CGS 1060C Intro to Computer Sci  3 hrs
- D. Social Foundations  6 hrs
- E. Science Foundations  6 hrs

2. Common Program Prerequisites  (0 hrs)
- AMH 2010*  3 hrs
- US History: 1492-1877  3 hrs
- AMH 2020*  3 hrs
- US History: 1877-Present  3 hrs
*See Transfer Notes for possible substitutes

3. Core Requirements  (9 hrs)
- HIS 4150  History & Historians  3 hrs
- Select one sequence  6 hrs
  - EUH 2000, 2001 Western Civilization I & II  3 hrs
  - WOH 1202, 2022 World Civilization I & II

4. Upper Division Restricted Electives  (21 hrs)
(Must be taken within the History Department)
Select six hours of approved history courses within three of the four geographic regions. 18 hrs
  1) Asian, African, and Middle Eastern
  2) British and European
  3) Latin American
  4) U.S. and Canadian

Select three hours of approved history courses 3 hrs

5. Departmental Exit Requirements
   ■ Maintain a minimum GPA of 2.0 in upper division required courses attempted
   ■ Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student’s written work including, but not limited to, book critiques, in-class essay exams, and term papers.
   ■ Computer Competency met by completion of the major
   ■ Students must complete at least 18 of the required 36 History hours at UCF

6. Foreign Language Requirements (0-8 hrs) Admission: Met by graduation requirement
Graduation: 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. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of historical interest.

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

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

Total Semester Hours Required 120 hrs

Related Programs: Humanities
Related Minors: African-American Studies, American Studies, Asian Studies, Humanities, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Women’s Studies

Transfer Notes:
   ■ Grades below “C” (2.0) are not accepted.
   ■ Courses taken at community colleges do not substitute for upper division courses.
   ■ Courses transferred from private and out of state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
   ■ AMH 2010* & 2020*: may use any two introductory courses with an AMH, EH, 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 1080 U S His 1492 1877 3
   BSC 1100* req# 1E1-GEP 3
   ENC 1101 Composition I 3
   POS 2041* req# 1D1-GEP 3

   Spring
   AMH 2020 U S His 1877 Pres 3
   CMH 1020* req# 1E1-GEP 3
   ENC 1102 Composition II 3
   MGF 1106* req# 1C1-GEP 3

Sophomore Year
   Fall
   ARH 2050* req# 1B3-GEP 3
   CSG 1060C Intro to Comp Sci 3
   EUH 2000* req# 3-Core 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   SPN 1120* req# Lang/Elect 4

   Spring
   EUH 2001* req# 3-Core 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 4

Junior Year
   Fall
   HIS 4150 History & Histrns 3
   ASH 3222* req# 4.1-ResEle 3
   EUH 3315* req# 4.2-ResEle 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

   Spring
   ASH 3223* req# 4.1-ResEle 3
   EUH 3316* req# 4.2-ResEle 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

Senior Year
   Fall
   LAH 3310* req# 4.3-ResEle 3
   AMH 3423* req# 4.4-ResEle 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

   Spring
   AMH 3424* req# 4.4-ResEle 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

HISTORY ACCELERATED PROGRAM (B.A. and M.A.)
Accelerated Undergraduate/Graduate Program
Note: For detailed information about this program, see description in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.

HOSPITALITY MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra 3 hrs
      Select MAC 2233 Computer Fundamentals for Bus or STA 2203 Statistical Methods I 3 hrs
   D. Social Foundations
      Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites (3 hrs)
   HFT 1400 Introduction to Hospitality/Tourism 3 hrs

3. Hospitality Management Core (52 hrs)
   A. Quantitative Tools
      CSG 2100 Computer Fundamentals of Business
      or STA 2023 Statistical Methods I (GEP)
      or ECO 2013 Macroeconomics
      or ECO 2023 Microeconomics
      or MAC 1105 College Algebra (GEP)
   B. Fundamentals
      FSS 2221C Quantity Food Preparation 3 hrs
      HFT 3540 Guest Services Management 3 hrs
   C. Managerial Tools
      HFT 2403 Hospitality Financial Accounting 3 hrs
      HFT 3431 Hospitality Management Accounting 3 hrs
      HFT 2500 Hospitality Marketing 3 hrs
      HFT 2220 Hospitality Human Resource Mgmt 3 hrs
      HFT 3444 Hospitality Information Systems 3 hrs
      HFT 3600 Legal Environment in Hospitality 3 hrs
      HFT 4295 Leadership and Strg Mgmt in Hospitality Ind 3 hrs
      HFT 4286 Hospitality Communications 3 hrs
      HFT 4462 Hospitality Industry Finance 3 hrs

Note: For detailed information about this program, see description in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.

HISTORICAL PROGRAMS
UCF Degree Programs

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D. Sectoral Studies – Choose 5 of the following 6 courses (15 hrs)

HFT 2254 Lodging Operations 3 hrs
HFT 2400 Tourism Management 3 hrs
HFT 2750 The event industry 3 hrs
HFT 3261 Restaurant Management 3 hrs
HFT 3273 Principles of Resort Time Sharing 3 hrs
HFT 4756 Theme Park and Attractions Mgmt 3 hrs

E. Internships (3 hrs)

HFT 3940 Practicum I 1 hr
HFT 4941 Practicum II 1 hr
HFT 4941 Practicum III 1 hr

F. Guest Lectures (1 hr)

HFT 3933 Distinguished Lectures in Hospitality Management 1 hr

4. Special College Requirements:

Final exams will be given during Final Exam Week only.

Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

The Rosen College of Hospitality Management requires all first-time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

5. Restricted Electives:

Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the seven specialized career tracks as outlined below.

6. Generalist Track (15 hrs)

Choose five advanced courses from the following list:

HFT 3313 Hospitality Human Resource Management 3 hrs
HFT 3343 Hospitality Facilities Planning & Design 3 hrs
HFT 4298 Hospitality Business Consulting 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 3785 Management of Gaming Enterprises 3 hrs
HFT 3807 Multi-Food Service Organizations 3 hrs
HFT 4861C Beverage Management 3 hrs
FSS 3124 Supply and Procurement Management 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
FSS 4232C Intermediate Techniques of Food Production 3 hrs
FSS 4286C Catering and Banquet Organization 3 hrs
HFT 4753 Convention & Conference Services 3 hrs
HFT 4754 Exhibit & Trade Show Operations 3 hrs
HFT 4755 Tourism Geography 3 hrs
HFT 4722 Travel Agency Management 3 hrs
HFT 4762 Current Practices in the Airline Industry 3 hrs
HFT 4275 Development of Vacation Ownership Resorts 3 hrs
HFT 3741 Meeting Management 3 hrs
HFT 3757 Event Management 3 hrs
HFT 3566 Restaurant Management 3 hrs
HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs

7. Restricted Electives:

B. Event Management Track – Choose 5 Courses (15 hrs)

HFT 4753 Convention and Conferences Services 3 hrs
HFT 4754 Exhibit and Trade Show Operations 3 hrs
HFT 3802 Catering Management 3 hrs
HFT 3741 Meeting Management 3 hrs
HFT 3757 Event Management 3 hrs

C. Vacation Ownership Resort Management Track (15 hrs)

HFT 4275 Development of Vacation Ownership Resorts 3 hrs
HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs

D. Theme Park and Attraction Mgmt Track – Choose 5 Courses (15 hrs)

HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
HFT 4758 Product Development in Theme Parks and Attractions 3 hrs
HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs

E. Tourism Management Track (15 hrs)

HFT 4753 Tourism Geography 3 hrs
HFT 4754 Exhibit & Trade Show Operations 3 hrs
HFT 4757 Event Management 3 hrs

F. Lodging Management Track (15 hrs)

HFT 3313 Hospitality Physical Plant Management 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4253 Hotel Operations 3 hrs
HFT 3515 Reservations Sales & Marketing 3 hrs

G. Hospitality Financial Management and Technology (15 hrs)

HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs

H. Golf Management Track – Choose 5 Courses (15 hrs)

HFT 1350 Career and Promotional Development in Golf 3 hrs
HFT 3802 Catering Management 3 hrs
HFT 3354 Golf Course Facility Design 3 hrs
HFT 3354 Golf Course Facility Design 3 hrs
HFT 3354 Golf Course Facility Design 3 hrs

UCF Degree Programs

2005-2006 Undergraduate Catalog

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

7. University Minimum Exit Requirements  
- A 2.0 UCF GPA  
- 48 semester hours of upper division credit completed  
- 30 of the last 36 hours of course work must be completed in residence at UCF.  
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted  
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)  
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF College of Hospitality Management.  
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.  
- A minimum of 30 semester hours must be completed at UCF within the hospitality major.  
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

8. Unrestricted Electives  
(6-14 hrs)  
As necessary to result in 120 total credit hours.

Total Semester Hours Required  
120 hours

Community/Junior College Transfer Notes  
Students must earn at least a “C” (2.0) in each required course.

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 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.

FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*  
*Plan your required nine summer credit hours into your course of study.

| Freshman | 15 hrs | Spring | 15 hrs |  |
|---------|--------|--------|--------|  |
| ENC 1101 | 3 | ENC 1102 | 3 |  |
| Cult-Hist I | 3 | Cult-Hist II | 3 |  |
| CGS 2100C | 3 | SPC 1600 | 3 |  |
| HFT 1001 | 3 | HFT 2500 Hospitality Marketing | 3 |  |
| PSY 2012, SYG 2000 | 3 | MAC1105 College Algebra | 3 |  |

| Sophomore | 15 hrs | Spring | 15 hrs |  |
|-----------|--------|--------|--------|  |
| ECO 2013 or ECO 2023 | 3 | Cult/Hist Foundation | 3 |  |
| Science Foundation I | 3 | Science Foundation II | 3 |  |
| Unrestricted Elective | 3 | HFT 2403 Hosp Fin Acct | 3 |  |
| HFT 3444 Hosp Info Sys | 3 | HFT 2220 Hosp Hum Res | 3 |  |
| Sectoral Study Course | 3 | FSS 2221C Quant Food Prep | 3 |  |

| Junior | 14 hrs | Spring | 16 hrs |  |
|--------|--------|--------|--------|  |
| HFT 3540 Guest Svcs Mgmt | 3 | Sectoral Study Course | 3 |  |
| HFT 3600 Legal Environ | 3 | Sectoral Study Course | 3 |  |
| HFT 3431 Hosp Mgr Acct | 3 | Sectoral Study Course | 3 |  |
| Hospitality Elective | 3 | Hospitality Elective | 3 |  |
| HFT 3940 Practicum I | 1 | HFT 3942 Practicum II | 1 |  |
| HFT 3933 Dist Lct in Hosp | 1 | Sectoral Study Course | 3 |  |

| Senior | 15 hrs | Spring | 15 hrs |  |
|--------|--------|--------|--------|  |
| HFT 4541 Practicum III | 1 | HFT 4295 Strat Mgt in Hosp | 3 |  |
| HFT 4286 Hospitality Communications | 3 | Hospitality Elective | 3 |  |
| Hospitality Elective | 3 | Hospitality Elective | 3 |  |
| Unrestricted Electives | 8 | Unrestricted Electives | 3 |  |
| HFT 4462 Hospitality Finance | 3 |  |  |  |

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.
UCF Degree Programs

1. Foundations
   HUM 3320 Contemporary Multicultural Studies 3 hrs
   Select one
   HUM 3431 Ancient Humanities 3 hrs
   HUM 3435 Medieval Humanities 3 hrs
   Select one
   HUM 3251 Contemporary Humanities 3 hrs
   HUM 3255 Modern Humanities 3 hrs

2. Traditions and Applications
   (15 hrs)
   ANT 3111: 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 34XX: Latin American Humanities
   JST 3401: The Jewish People I
   PHH 3700: American Philosophy
   PHM 3123: Feminist Theory
   REL 3162: Healing: Culture, Art, and Praxis

C. Critical Humanities

1. Foundations
   HUM 3255: Modern Humanities 9 hrs
   HUM 3251: Contemporary Humanities
   PHI 4804: Critical Theory

2. Traditions and Applications
   (15 hrs)
   HUM 4330: Performance Theory
   HUM 4554: Religious Quest and the Human Dilemma
   HUM 3930: Representations of Place and Space
   PHI 3510: Marx and Nietzsche
   PHI 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 Theory
   PHP 3786: Existentialism
   PHP 3783: Modernity as a Philosophical Problem
   PHI 4782: Phenomenology
   REL 3111: Religion and Philosophy through Film
   REL 3115: Religion, Spirituality, and Popular Music
   REL 3162: Healing: Culture, Art, and Praxis
   HUM 3800: Research Methods in Humanities

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 4203: Spiritual Ideal
   - PH 3700: Philosophy of Religion
   - PHI 3803: 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 Reading 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
- Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

7. Departmental Exit Requirements
- Earn a "C" (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4906, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

8. Foreign Language Requirements
   (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

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

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

Total Semester Hours Required
120 hours

Related Programs: Humanities - Religious Studies Track, Philosophy
Related Minors: Environmental Studies, Humanities, Philosophy, Religious Studies

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

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 2211 Human Tradition I 3
         MGF 1106* req# 1C1-GEP 3
         STA 1060C* req# 1C2-GEP 3
   Spring: ENC 1102 Composition II 3
            HUM 2230 Human Tradition II 3
            PHI 3800* req# 5-ResEle 3
            SPN 1120* req# Lang/Elect 4

Sophomore Year
   Fall: ANT 2511* req# 4A2-ClasHu 3
         COM 1000* req# 1A3-GEP 3
         JST 3401* req# 4A1-ClasHu 3
         MGF 1106* req# 1C1-GEP 3
   Spring: ANT 3111 Composition I 3
            COM 2012* req# 4A2-ClasHu 3
            PSY 2012* req# 1D2-GEP 3
            HUM 2211 Human Tradition I 3

Junior Year
   Fall: ARH 3520* req# 4A1-ClasHu 3
         CLA 3851* req# 4A2-ClasHu 3
         JST 3401* req# 4A2-ClasHu 3
         PHI 3800* req# 5-ResEle 3
   Spring: ARH 4310* req# 4A2-ClasHu 3
           JST 3401* req# 4A2-ClasHu 3
           PHI 3800* req# 5-ResEle 3
           REL 3162: Healing: Culture, Art, and Praxis 3

Senior Year
   Fall: Elective* Check restrictions 3
         HUM 4933 Senior Res Seminar 3
   Spring: Elective* Check restrictions 3
           Elective* Check restrictions 3
           Elective* Check restrictions 3
           Elective* Check restrictions 3

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.
HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)

College of Arts and Sciences
Philosophy Department, CNH 411
e-mail:philosophy@ucf.edu
Advisor: Bruce Janz, 407-823-2273; Fax: 407-823-6658
Advisor (Cocoa): Shelley Park; 321-433-7919

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   B. Cultural and Historical Foundations (9 hrs)
   C. Mathematical Foundations (6 hrs)
   D. Social Foundations (6 hrs)
   E. Science Foundations (6 hrs)

2. Common Program Prerequisites
   - none

3. Core requirements (18 hrs)
   a. Core (8 hrs)
      - HUM 2211 Humanistic Traditions I GEP
      - HUM 2230 Humanistic Traditions II GEP
      - PHI 2010 Intro to Philosophy GEP
   b. Theoretical Foundations (6 hrs)
      - PHI 3694 Ways of Living
      - PHI 4341 Ways of Knowing
   c. Philosophy (6 hrs)
      - Select two courses:
        - PHI 2101 Critical Thinking
        - PHI 3670 Ethical Theory
        - PHI 3700 Philosophy of Religion
        - PHI 3800 Aesthetics
        - PHI 3100 Freedom and Justice
        - PHI 3720 Faith and Reason
        - PHP 3786 Existentialism
        - PHI 4804 Critical Theory
        - PHI 4300 Theories of Knowledge
   d. Religion (6 hrs)
      - 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 3750 The Problem of Evil

4. Popular Culture Studies (12 hours)
   a. Contemporary Media (6 hrs)
      - Select two courses:
        - HUM 3230 Contemporary Multicultural Studies
        - HUM 4516 Religion and the Arts
        - HUM 4330 Performance Theory
        - PHI 3625 Virtual Ethics
        - PHI 4931 Philosophy in the News
        - POS 3226 Mass Media and Politics
        - POS 3258 Politics in Film
        - REL 3115 Religion, Spirituality and Popular Music

UCF Degree Programs

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
      - HUM 4970H Honors Thesis
   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 4906, 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)

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. 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 hours

Related Programs: Humanities, Humanities - Religious Studies Track, 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.
HUMANITIES – RELIGIOUS STUDIES TRACK (B.A.)

College of Arts and Sciences
Philosophy Department, CNH 411, http://www.cas.ucf.edu/philosophy/
E-mail: phildept@ucf.edu
Claudia Schippert, 407-823-2273; Fax: 407-823-6658

Admission Requirements

Degree Requirements

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

3. Core requirements (24 hrs)
   a. Core
   b. Foundations in the Study of Religion and the Humanities

4. Applications: Topics and Issues in the Study of Religion (6 hrs)
   Select two courses:
   REL 3162 Healing: Culture, Art, and Praxis
   HUM 4554 Religious Quest and the Human Dilemma
   HUM 4303 The Spiritual Ideal
   PHI 3033 Philosophy, Religion, and the Environment
   REL 3115 Religion, Spirituality, and Popular Music
   REL 3111 Religion and Philosophy through Film
   REL 3432 Roots of Western Mysticism

5. Honors in the Major

6. Departmental Exit Requirements (3 hrs)
   a. Honors Thesis (3 hrs)
   b. Senior Research Seminar

7. Foreign Language Requirements (0-8 hrs)

8. Electives (variable)

9. University Minimum Exit Requirements

   A. 2.0 UCF GPA
   B. 60 semester hours earned after CLEP awarded
   C. 48 semester hours of upper division credit completed
   D. 30 of the last 36 hours of course work must be completed in residency at UCF
   E. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Total Semester Hours Required 120 hrs

Related Programs: Philosophy, Humanities, Liberal Studies
Related Minors: Philosophy, Humanities, Judaic Studies, Religious Studies
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>
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<th>Fall</th>
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<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
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<tr>
<td>HUM 2211 Hum Tradition I</td>
<td>HUM 2230 Hum Tradition II</td>
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<td>MGF 1106* req# 1C1-GEP</td>
<td>STA 1060C* req# 1C2-GEP</td>
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### Sophomore Year

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### Junior Year

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### Senior Year

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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/

**Sandy Furterer, E-Mail: furterer@mail.ucf.edu**

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

**Degree Requirements**

- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. **UCF General Education Program for Engineering Students**

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

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

   B. Cultural and Historical Foundations
   9 hrs
   1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).
      Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
   2. Take STA 3032 (3 hrs).
      Note: Calculus II is the prerequisite for this course.

   C. Mathematical Foundations
   7 hrs
   1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).

2. **Common Program Prerequisites (CPP’s)**

   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are available at other Florida post-secondary schools and may be transferred directly to UCF programs. A 2.0 cumulative GPA or better is required for those courses in section 2. marked with an asterisk (*). Note: MAG 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)
   - MAC 2311 Calculus with Analytic Geometry I* GEP
   - MAC 2312 Calculus with Analytic Geometry II* (4 hrs)
   - MAC 2313 Calculus with Analytic Geometry III* (4 hrs)
   - MAP 2302 Differential Equations* (3 hrs)
   - PHY 2048/48L Physics for Engineers & Scientists I* GEP
   - PHY 2049/49L Physics for Engineers & Scientists II* (4 hrs)
   - ENC 1101 Composition I GEP
   - ENC 1102 Composition II GEP
   - Humanities Courses GEP
   - Social Science Courses GEP
   - Humanities or Social Sciences GEP

3. **Courses Required for the Engineering Core**

   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. below and the technical elective courses listed in 5. below and with the senior design course listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

   - EGN 1006C Intro to the Engineering Profession 1 hr
   - EGN 1111C Engineering Computer Graphics 2 hrs
   - EGN 1107C Engineering Concepts & Methods 1 hr
   - EGN 3211 Engineering Analysis & Computation 3 hrs
   - EGN 3310 Engineering Analysis - Statics 3 hrs
   - EGN 3311 Engineering Analysis - Dynamics 3 hrs
   - EGN 3358 Thermo-Fluids-Heat Transfer 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**

   The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

   - EGN 3613 Engineering Economic Analysis 2 hrs
   - EGN 4624 Engineering Administration 3 hrs
   - STA 3022 Probability & Statistics for Engineers 2 hrs
   - EIN 3304 Introduction to IE & MS 2 hrs
   - EIN 3343 Work Measurement & Design 3 hrs
   - EIN 3354 Principles of Cost Engineering 3 hrs
   - EIN 3383 IE Applications of Computers 3 hrs
   - EIN 4242C Human Engineering 3 hrs
   - EIN 4333C Industrial Control Systems 3 hrs
   - EIN 4364C Industrial Planning & Design 3 hrs
   - EIN 4391C Manufacturing Engineering 3 hrs
   - ESI 4221 Empirical Methods for IE 3 hrs
   - ESI 4234 Quality Engineering 3 hrs
   - ESI 4312 Operations Research 3 hrs
   - ESI 4523C Systems Simulation 3 hrs

5. **Approved Technical Electives**

   Technical electives are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.
6. Departmental Graduation Requirements (6 hrs)
   - EIN 4116C Systems Analysis & Design 3 hrs
   - EIN 4891C IE Senior Design Project 3 hrs
   - Take the Fundamentals Exam during the Senior year.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: None.

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

Total Semester Hours Required: 128 hours
Related Programs: Mechanical Engineering.
Related Minors: none
Transfer Notes:
   - Courses taken from Community Colleges do not substitute for Upper Division Courses.
   - Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

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

Industrial Engineering - 128 semester hours required

FIRST YEAR
   Fall 12 hrs   Spring 12 hrs
   - ECH 1440 Fund of Chm/Engrs 4   - ENC 1102 English Comp II 4
   - ENC 1101 English Comp I 3   - MAC 2312 Calc with Analy Geo II 4
   - MAC 2311 Calc with Analytic Geol 4   - EGN 1006 Intro to Eng 1
   - EGN 3211 Eng Anal-Statics 3   - PHY 2049L Phys Engr/Sci I 4

Summer 9 hours 1
   - EGN 3211 Eng Anal-Comp 3
   - ECH 1016 Tech Presentations 3
   - ECO 2031 Macroeconomics or ECO 2052 Microeconomics

SECOND YEAR
   Fall 13 hrs   Spring 12 hrs
   - PHY 2049L Phys Engr/Sci II 4   - EGN 3321 Eng Anal-Dynamics 3
   - EGN 3310 Eng Anal-Statics 4   - MAP 2302 Diff Equations 3
   - EIN 3304 Intro to IE & Mgt Sys 2   - STA 3022 Prob & Stats Engrs 2
   - MAC 2313 Calc with Analytic Geo III 4   - EGN 3373 Prin of Elec Eng 4

Summer 10 hours 1
   - EGN 3365 Strctr & Prop Matls 3
   - EGN 3613 Engn Econ Anal 2
   - Social Foundations 2
   - EGN 1111C Cmplt Graphics 2

THIRD YEAR
   Fall 12 hrs   Spring 15 hrs
   - EIN 3314C Work Mes & Dsgn 3   - EIN 4364C Indus Fcty Pln/Dsgn 3
   - EIN 4118C IE Computer Appl 3   - ESI 4221 Emprirical Methds - IE 3
   - EIN 4523C Systems Simulation 3   - ESI 4243C Human Engrng 3
   - ESI 4312 Operations Research 3   - EIN 4333C Industrial Cont Sys 3

Summer 9 hours 1
   - EGN 4624 Engineering Admin 3
   - EGN 3358 Therm-Flds-Hi Trans or EGN 3343 Thermodynamics 3
   - *Cult & Hist Foundations 3

FOURTH YEAR
   Fall 12 hrs   Spring 12 hrs
   - *Science Foundation II 3   - EIN 4891C IE Sr. Design Proj 3
   - EIN 4116C Sys Anal & Dsgn 3   - Technical Elective 3
   - ESI 4234 Quality Engineering 3   - *Cultural & History III 3
   - *Cult & Hist Foundations 3   - EIN 4391C Mgt. Engr. 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.
   - EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Integrated BS/MS Degree Program
The IEMS department offers the Integrated BS/MS Program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BSIE requirements. See advisor for appropriate substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)
AS to BS Track
Note: For detailed information about this program, see description in the AS to BS Program section.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207
Coordinator: Bahman Motlagh
407-823-4748 Fax: 407-823-4746
http://www.ent.ucf.edu

Admission Requirements
Students should complete 33 credit hours of lower level technical courses at a community college. Technical courses will be accepted in the following areas: networking, programming, information technology, computer science, and computer engineering and technology or closely related disciplines.

Degree Requirements
   - Students should check with their ENT 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)
   B. Cultural and Historical Foundations (9 hrs)
      (3 hrs taken in AS degree program)
   C. Mathematical Foundations (6 hrs)
      (completed in AS degree program)
   D. Social Foundations (6 hrs)
   E. Science Foundations (6 hrs)

2. Engineering Technology Core Courses (26 hrs)
   - CET 3651C Computer Applications 3 hrs
   - CET 3010 Intro to Info Technology 3 hrs
   - STA 2623 Statistical Methods I 3 hrs
   - CET 4448 Applied Prog Mgmt 3 hrs
   - ENC 3241 Writing for the Technical Professional 3 hrs
   - EET 3085C Electricity & Electronics 4 hrs
   - CET 3323C Digital Technology 4 hrs
   - CET 2364 Systems Applications in C 3 hrs

3. Lower Level Required Courses Taken at Community College (33 hrs)
4. Required Technical Courses (21 hrs)
   - CET 4427 Applied Database I 3 hrs
   - CET 3383 Applied Systems Analysis I 3 hrs
   - CET 4506 Applied Operating Systems I 3 hrs
   - CET 3752 Intro to Telephony 3 hrs
   - CET 4483 Intro to Local Area Network 3 hrs
   - CET 4333 Computer Organization & Design 3 hrs
   - CET 4748 Wide Area Networks I 3 hrs

5. Technical Electives (12 hrs)
   Choose four from the following:
   - CET 3198C Digital Systems 3 hrs
   - CET 4198C Digital Programmable Devices 3 hrs
   - CET 4931 Current Topics in Technology 3 hrs
   - CET 4749 Wide Area Network II 3 hrs
   - MAP 3401 Problem Analysis 3 hrs
   - CET 4623 Applied Systems Analysis II 3 hrs
   - CET 4429 Applied Database II 3 hrs
   - CET 4583 Web Base Systems I 3 hrs
   - CET 4584 Web Base Systems II 3 hrs
   - CET 4603 Computer & Networks Security 3 hrs
   - STA 5937 Data Mining I 3 hrs

6. Departmental Exit Requirements none

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent proficiency
   exam) prior to graduation.
   Graduation: none

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

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

Total Semester Hours Required: 128 hours

UCF Degree Programs

INFORMATION TECHNOLOGY (B.S.)
College of Engineering and Computer Science
School of Computer Science CSB 201
E-mail: it@cs.ucf.edu
http://www.cs.ucf.edu/
S. Lang 407-823-2341

Degree Requirements
- Students must earn at least a "C" (2.0) in each course in 2-5.
- Students should consult with a departmental advisor.
- A Residency Requirement consists of at least 24 semester hours
  of 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 (37 hrs)
   A. Communication Foundations 9 hrs
   - Select ENC 1101, ENC 1102
   - Prefer SPC 1016
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
   - Select MAC 2147 Math for Calculus 3 hrs
   - Select STA 2023, Statistical Methods I 3 hrs
   D. Social Foundations
   - Select ECO 2023 Microeconomics or
     ECO 2033 Microeconomics 3 hrs
   - Select PSY 2012 General Psychology 3 hrs
   E. Science Foundations
   - Select PHY 2053C College Physics I 4 hrs
   - Select one additional science 2 hrs

2. Common Program Prerequisites (3 hrs)
   MAC 2147 Math for Calculus
   STA 2023 Statistical Methods I
   ECO 2013 Macroeconomics
   PSY 2012 General Psychology
   PHY 2053C College Physics I
   PHI 5626 Ethics in Science and Technology

3. Core Requirements (42 hrs)
   - COP 3223 C Programming Language 3 hrs
   - COP 3502C Computer Science I 3 hrs
   - COP 3503C Computer Science II 3 hrs
   - COP 3330 Object Oriented Programming 3 hrs
   - MAD 2104 Foundations of Discrete Mathematics 3 hrs
   - EEL 3041 Circuit Analysis 3 hrs
   - EEL 3520 Information Theory 3 hrs
   - CGS 3269 Computer Architecture Concepts 3 hrs
   - CGS 2545C Database Concepts 3 hrs
   - EEL 4902 Eng. Sys. SW (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.
   - or CET 4483 Intro to Local Area Network Tech.
   - or EET 4484 Applied Proj Mgmt 3 hrs
   - COP 4910 Frontiers of Information Technology 3 hrs

A minimum grade of "C" (2.0) must be made on each of the required
core courses. A three credit internship approved by the Information
Technology Program Coordinator can substitute for the Frontiers in
Information Technology (COP 4910) requirement.
### UCF Degree Programs

#### 4. Support Courses
- **ENC 3241** Technical Report Writing 3 hrs
- **CRW 3930** Creative Writing (section for IT majors) 3 hrs

#### 5. Restricted Electives
- 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
- (17 hrs)

#### 8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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 hours

### Related Programs: Computer Science, Computer Engineering, Management Information Systems

### Related Minors and Certificates: Information Technology, Computer Science

### Transfer Notes:
- Grades below “C” (2.0) are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

#### FIRST YEAR

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<th>Term</th>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Fall</td>
<td>ENC 1101 English Comp I</td>
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<td>SPC 1600 Oral Communications</td>
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<td></td>
<td>MAC 2147 Math for Calculus</td>
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<td>COP 3223 C Programming</td>
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<td>ENC 1102 English Comp II</td>
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<td>MAD 2104 Found of Discrete Math</td>
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<td>COP 3502C Comp Science I</td>
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<td>ECO 2013 Microeconomics</td>
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<td>PSY 2012 Psychology</td>
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<td>COP 3330 Intro to OO/Java</td>
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<td>LTC 2110D Literature</td>
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<td>PHY 2053C College Physics</td>
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<td>EUH 2000 Western Civil</td>
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<td>ENC 3503C CompScience II</td>
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<td>STA 2023 Statistical Methods</td>
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<td>BSC 1005 Biological Principles</td>
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#### THIRD YEAR

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<td>CET 4483 Intro to LAN Tech or</td>
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<td>PHI 3626 Adv Ethics in Sci &amp; Tech</td>
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<td>CDA 4500C Network Laboratory</td>
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<td>Upper division elective</td>
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<td>Free Elective</td>
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<tr>
<td>Spring</td>
<td>COP 4910 Frontiers of IT</td>
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<td>CRW 3930 Creative Writing</td>
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<td>Free elective</td>
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#### INTERPERSONAL COMMUNICATION (B.A.)

**Nicholson School of Communication, COM 258**
**407-823-2852**

**http://www.cas.ucf.edu/communication**

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

**K. Phillip Taylor**

**Admission Requirements**

**None**

#### Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit can be used in this major
- Students should consult with a departmental advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Communication
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. **UCF General Education Program**
   - (36 hrs)
   - A. Communication Foundations
     - Select ENC 1101 & 1102 Composition 6 hrs
     - Select SPC 1600 Fund Oral Communication 3 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations
     - Select MGF 1106 Finite Mathematics 3 hrs
     - (may substitute a higher level Math)
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. **Common Program Prerequisites**
   - (24 hrs)
   - SPC 1600 Fund Oral Communication
   - GEP

3. **Core Requirements**
   - (24 hrs)
   - STA 2014C Principles of Statistics
   - GEP
   - COM 3011C Communication & Human Relations 3 hrs
   - COM 3311 Communication Research Methods 3 hrs
   - PUR 4110C Public Relations Publications 3 hrs
   - SPC 3301 Interpersonal Comm 3 hrs
   - SPC 4331 Nonverbal Communication 3 hrs
   - SPC 4426 Group Dynamics 3 hrs
   - SPC 4540 Attitudes and Communication 3 hrs
   - ENC 3250 Professional Writing 3 hrs

4. **Restricted Electives**
   - (9 hrs)
   - Select from the following list:
     - SPC 3513 Argumentation and Debate
     - COM 3013 Communication and the Family
     - COM 4014 Gender Issues in Communication
     - COM 4461 Intercultural Communication
     - COM 4462 Conflict Management
     - COM 4491 Internship
     - COM 3013 Communication and the Family

5. **External Restricted Electives**
   - (9 hrs)
   - A minimum of nine upper division credit hours selected from Social Science courses in Anthropology, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

6. **School Exit Requirements**
- Achieve a “C” (2.0) or better GPA in required UCF Communication courses
- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Computer Competency met by a Computer Science course or by departmental assessment

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


### Degree Requirements

- **Students who change degree programs and select this major must adopt the most current catalog.**
- The Journalism faculty strongly recommends that majors work for a student newspaper. In addition, majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine. To enroll for credit, students must have a 2.5 GPA in their required major courses. Students with less than a 2.5 GPA will not be given academic internship credit. Students can enroll in a maximum of two 3-credit internships. However, the internships must be with different employers, and students cannot exceed a total of seven credits of internship 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 School of Communication.**
- **All students are required to pay a fee for equipment insurance.**
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation.
- **Students enrolled in the major may not take more than 40 total credit hours from the Nicholson School of Communication.**
- **Students enrolled in the major must take at least 65 hours in the School Residency Requirement.**
- **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 | (6 hrs) |
| Select ENC 1101 & 1102 Composition |
| Select SPC 1600 Fund Oral Communication |

| B. Cultural and Historical Foundations | (9 hrs) |
| Select MGF 1106 Finite Mathematics (may substitute a higher level math) |
| Select CGS 1060C Intro to Computer Sci |

| C. Mathematical Foundations | (6 hrs) |
| Select SPC 1600 Fund Oral Communication |
| Select STA 2014C Principles of Statistics |

| D. Social Foundations | (6 hrs) |
| Select SPC 1600 Fund Oral Communication |
| Select STA 2014C Principles of Statistics |

| E. Science Foundations | (6 hrs) |
| Select SPC 1600 Fund Oral Communication |
| Select STA 2014C Principles of Statistics |

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### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>ENC 1101 Composition I</td>
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<td>MGF 1106 req# 1C1-GEP</td>
<td>ELH 2000 req# 1B1-GEP</td>
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### Sophomore Year

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<td>BSC 1005* req# 1E2-GEP</td>
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<td>POS 2041* req# 1D1-GEP</td>
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### Junior Year

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<tbody>
<tr>
<td>COM 3011 Com Retln</td>
<td>PUR 4110C Public Retln Pub</td>
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<tr>
<td>COM 3311 Com Res Methods</td>
<td>SPC 4331 Intpers Com</td>
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<td>ENC 3250 Prof Writing</td>
<td>SPC 4331 Nonverbal Com</td>
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### Senior Year

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<tr>
<td>COM 4461* req# 4-ResElec</td>
<td>SPC 4426 Group Dynamics</td>
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<tr>
<td>COM 4462* req# 4-ResElec</td>
<td>SPC 4540 Attitudes and Com</td>
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<td>POS 3424* req# 5-Ext RE</td>
<td>COM 4941* req# 4-ResElec</td>
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### Related Programs:

- Organizational Communication
- Mass Communication
2. Common Program Prerequisites (0 hrs)

SPC 1800 Fund Oral Communication GEP

3. Core requirements (30 hrs)

JOU 3004 History of American Journalism 3 hrs
JOU 2100C* News Reporting 3 hrs
JOU 3101* Advanced News Reporting 3 hrs
JOU 3200* Editing I 3 hrs
JOU 3202* Editing II 3 hrs
JOU 4181* Public Affairs Reporting 3 hrs
JOU 4300* Feature Writing 3 hrs
MMC 4200 Mass Communication Law 3 hrs
MMC 4602 Contemporary Media Issues 3 hrs
PGY 3610C Photojournalism I 3 hrs

*Prerequisite: Grammar Proficiency Examination and Keyboard Proficiency Test required. Some courses may also require a minimum grade of "C" (2.0) in prerequisite courses.

4. Upper Division Restricted Electives (3 hrs)

JOU/PGY Elective 3 hrs

5. Required Minor: (18 hrs minimum)

Journalism majors must complete an 18-hour minor in an academic area outside of the School of Communication. When no official minor is offered, students may complete a 18-credit-hour area of concentration approved by the Faculty.

6. School Exit Requirements

Acceptance of portfolio by faculty
To avoid delaying graduation, you must request a review of requirements before registering for your last term
Achieve an overall "C" GPA (2.0) in required UCF Journalism courses. This GPA does not include Restricted Electives in the major or other electives.
Computer Competency met by CGS 1060C.

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. May be outside of the school.

9. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: Technical Writing, Creative Writing

Related Minors: Creative Writing, History, Literature, Linguistics, Magazine Journalism (not available to Journalism majors), Political Science, Sociology, Technical Writing, Writing

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

LEGAL STUDIES (B.A., B.S.)
College of Health and Public Affairs
HPA 311, 407-823-2603
http://www.cohpa.ucf.edu/crim jus/
Undergraduate Program Director and Pre-Law Advisor: David Slaughter
E-mail: dslaughter@mail.ucf.edu

Admission Requirements none

Degree Requirements
Students who change degree programs and select this major must adopt the most current catalog
Students should complete the General Education Program before transferring within the Florida Public University/Community College System
Students should consult with a departmental advisor
The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
33 hours of PLA coursework must be taken at UCF
2.0 in all PLA work at UCF and overall

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
(BPC 1600 preferred)
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106
Select CGS 1060C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core Requirements (18 hrs)

PLA 3013 Law and the Legal System 3 hrs
PLA 3104 Legal Research* 3 hrs
PLA 3155 Legal Writing 3 hrs
PLA 3201 Civil Practice and Procedure 3 hrs
PLA 3610 Property and Real Estate Law 3 hrs
PLA 4935 Capstone: Legal Issues* 3 hrs

NOTE: Courses marked with asterisk (*) must be completed with a minimum grade of "C" (2.0)

4. Upper Division Restricted Electives (24 hrs)

24 additional hours of Legal Studies coursework selected in consultation with an advisor

5. Supporting Courses (9-15 hrs)

Students pursuing the B.A. degree must complete nine semester hours of supporting courses chosen with the approval of the student’s advisor. Students pursuing the B.S. degree must complete 15 hours of supporting courses chosen with the approval of the student’s advisor.

6. Specializations

Students may earn a specialization within the general program of study. The specializations do not substitute for the general legal studies degree 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
Ligation and Advocacy
Public Law
Sports and Entertainment Law
Criminal Law and Individual Liberties
Estates and Property Law
Comparative and International Law
Commercial and Transactional Law

A student may earn a maximum of two specializations. Specific course requirements are available at the department office or from the student’s advisor.

7. Departmental Exit Requirements (120 hrs)

Students must take a minimum of 33 hours of PLA courses at UCF.
The total semester hours required is 120.

8. Electives (variable)
The following electives must be completed with a minimum grade of “C” (2.0): PLA 4020, PLA 4240, PLA 4910

9. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level.

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

Total Semester Hours Required 120 hours

Related Programs: Business Administration, Criminal Justice, History, Political Science, Public Administration, Sociology
Related Minors: Business Administration, Criminal Justice, Political Science, Public Administration, Sociology

Transfer Note:
Courses taken at community colleges do not substitute for Upper Division courses.

Minor
The Legal Studies Minor consists of 21 or more semester hours. Required courses: PLA 3013 plus a minimum of 15 semester hours of legal studies courses and three semester hours of law-related courses selected with the aid of an advisor.

Tentative Course Schedule for Entering Freshmen

Freshman Year*

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>15/16 hrs</th>
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<tr>
<td>ENC 1101</td>
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<td>ENC 1102</td>
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<td>COS 1060C</td>
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</tr>
<tr>
<td>BSC 1005 or MCB 1310</td>
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<td>ECO 2023</td>
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<td>For. Lang. I or B.S. option</td>
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<tr>
<td>PAF 2102</td>
<td>2</td>
<td>Elective</td>
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Sophomore Year

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<th>Spring</th>
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</tr>
</thead>
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<tr>
<td>ANT 2511 or GLY 1030</td>
<td>3</td>
<td>PSC 1121 or CHM 1020</td>
<td>3</td>
</tr>
<tr>
<td>or GEO 1200</td>
<td>3</td>
<td>PLA 3013</td>
<td>3</td>
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<tr>
<td>SPC 1600</td>
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<td>One Course: ARH 2050</td>
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<tr>
<td>EUH 2000 or HUM 2211 or AMH 2100</td>
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<td>ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, Lit 2110, Lit 2120</td>
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<tr>
<td>or For. Lang. II or B.S. option Elective</td>
<td>3/4</td>
<td>EUH 2001 or HUM 2230</td>
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<tr>
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<td>or AMH 2020</td>
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Junior Year

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<td>PLA 3610</td>
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</tr>
<tr>
<td>PLA Elective</td>
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<td>PLA Elective</td>
<td>3</td>
</tr>
<tr>
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<td>Supporting Elective</td>
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</table>

Senior Year

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<tr>
<th>Fall</th>
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</thead>
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<tr>
<td>PLA Elective</td>
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<td>PLA Elective</td>
<td>3</td>
</tr>
<tr>
<td>Internship or PLA Elective</td>
<td>3</td>
<td>Internship or PLA Elective</td>
<td>3</td>
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<tr>
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<td>Elective/minor</td>
<td>3</td>
</tr>
<tr>
<td>Elective/minor</td>
<td>3</td>
<td>Elective/minor</td>
<td>3</td>
</tr>
</tbody>
</table>

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 2041C Principles of Statistics (may substitute a higher level computer science or 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 two different subject area concentrations from among those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 18 UCF hours, as

LIBERAL STUDIES (B.A., B.S.)
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Liberal Studies is a university-wide program leading to either the Bachelor of Arts or the Bachelor of Science in Liberal Studies, depending on the majority of course areas selected in consultation with a Liberal Studies advisor.

This program may be completed online with limited area, course, and minor selection done with advisement from a member of the Liberal Studies Advising Team. Students may not be able to complete all courses online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via 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 must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a “C” (2.0) in each restricted elective course
- Students must consult with a Liberal Studies advisor to enter the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. 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 2041C Principles of Statistics (may substitute a higher level computer science or statistics course)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. 2. Common Program Prerequisites none

3. 3. Restricted Electives (36 hrs)
- Students must complete two different subject area concentrations from among those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 18 UCF hours, as
UCF Degree Programs

well as 18 upper division hours, in the two areas combined

See the Liberal Studies Advising Team for details regarding each area

- Arts
- Behavioral and Social Sciences
- Biological Sciences
- Commerce
- Communication
- Computer Science
- Education
- Engineering
- Health
- Humanities
- Languages
- Letters
- Mathematical Sciences
- Physical Sciences
- Public Affairs

4. Required Minor (18 hrs minimum)
Students must complete a minor from those offered at UCF. The minor cannot overlap with the two subject areas. Minimum hours for a minor is eighteen. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

5. Program Exit Requirements
- A grade of “C” or above (2.0) is required for each course taken in each of the subject areas.
- Computer Competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

6. Foreign Language Requirements (0-8 hrs)
Admission-BA: Met by graduation requirement
Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation - BA: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.
Graduation - BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

Note: Students entering without having met the admission requirements must do so in order to graduate

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

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

Total Semester Hours Required 120 hrs

Related Programs: Computer Information Technology Track, Liberal Arts Track, Environmental Studies Track, Women’s Studies Track
Related Minors: Most UCF minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - COMPUTER INFORMATION TECHNOLOGY TRACK (B.S.)
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201
E-mail: computerscience@ucf.edu
Mark Llewellyn, 407-823-2341

There are numerous opportunities in industry for qualified people to work in the broad area of Information Technology (IT). Computer Science represents only a part of this IT umbrella. Students can go beyond a narrower technical focus to include system, network, and database administration: business principles and behavior; social science behavior and theories; and other areas. This LS-CIT track fills the gap between the fully accredited degree program in Computer Science which emphasizes the scientific aspects of computing, and the needs of the IT industry for people with skills in broader areas of information technology. By completing this track within Liberal Studies, students can accentuate those areas of computer information and application, while de-emphasizing the mathematical and physical science components of Computer Science.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Students must earn at least a “C” (2.0) in each restricted elective and minor course
- Students should consult with departmental advisors within both the Liberal Studies program and Computer Science when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites
- none

3. Required Computer Science Minors (36 hrs)
- Students must complete the Computer Science minor and the Information Technology minor (Option 3). See the requirements for these two minors in the catalog minor degree section.

4. Restricted Electives (18 hrs)
- Students must complete a minimum of 18 hours of approved
coursd in one Liberal Studies subject area from those listed below (excluding GEP courses) of which a minimum of nine hours must be UCF hours and a minimum of nine upper level hours.

- Students are strongly encouraged to take all upper level courses in the area.
- See the Liberal Studies Advising Team for details regarding each area:
  - Arts
  - Behavioral and Social Sciences
  - Biological Sciences
  - Commerce
  - Communication
  - Education
  - Engineering
  - Health
  - Humanities
  - Languages
  - Letters
  - Mathematical Sciences
  - Physical Sciences
  - Public Affairs

5. Program Exit Requirements
- A grade of "C" or above (2.0) is required for each course taken in the subject areas and the minors.
- Computer Competency is met by CIT major.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Modern Languages and Literatures, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

Note: Students entering without having met the admission requirement must do so in order to graduate.

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

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

Total Semester Hours Required: 120 hrs

9. Transfer Courses
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES – ENVIRONMENTAL STUDIES TRACK (B.S.)

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Liberal Studies major at least one semester before graduation.
- Internship credit cannot be used in this major without prior written permission of a Liberal Studies advisor.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas.
- Non-approved independent studies will not be counted towards the major.
- Co-op credit cannot be used in this major.
- Students must earn at least a “C” (2.0) in each required course in the core and subject areas.
- Students should consult with a Liberal Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36 hrs)
(Note: The italicized courses fulfill both the program requirements and the GEP. These required selections may raise the total GEP hours.)

A. Communication Foundations
- 9 hrs
B. Cultural and Historical Foundations
- 9 hrs
C. Mathematical Foundations
- 6 hrs
D. Social Foundations
- 6 hrs
E. Science Foundations
- 6 hrs

2. Common Program Prerequisites: none

3. Core for Environmental Studies (23 hrs)
(Note: PHY 2053C College Physics I (PR: MAC 1105 and 1114 or equivalent) is required to complete the Environmental Sciences: Sciences concentration.

A. Physical/Mathematical Sciences

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<td>CHM 2045C</td>
<td>Chemistry Funds I &amp; Lab</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Concepts of Calculus (or equivalent)</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>Chemistry Fundamentals II &amp; Lab</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2205</td>
<td>Introduction to Organic &amp; Biochemistry</td>
<td>5 hrs</td>
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B. Life Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
<td>Biology I</td>
<td>4 hrs</td>
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<tr>
<td>BSC 2011C</td>
<td>Biology II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3044</td>
<td>Principles of Ecology &amp; Lab</td>
<td>4 hrs</td>
</tr>
<tr>
<td>&amp; 3044L</td>
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C. Social Science & Humanities

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<tr>
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</tr>
<tr>
<td>SYD 4510</td>
<td>Environmental Sociology</td>
<td>3 hrs</td>
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4. Subject Area: Environmental Studies Fundamentals (15 hrs)

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<th>Course Title</th>
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<td>IDS 3150</td>
<td>Foundations of Environmental Studies</td>
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</tr>
<tr>
<td>ECO 4302</td>
<td>Economics and the Environment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEO 3151C</td>
<td>GIS for Environmental Studies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUB 5303</td>
<td>Environmental Pollicy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>IDS 4156</td>
<td>Solving Environmental Problems or alternative course</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
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.

Values, Planning, & Policy Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

- BCH 4053 Biochemistry I (PR: CHM 2210 & 2211)
- BCH 4054 Biochemistry II (PR: BCH 4053)
- BOT 315C Local Flora
- BOT 4156C Florida Wildflowers
- BOT 4303C Plant Kingdom
- BOT 4686C Conservation Management of Native Plants
- BOT 4713C Plant Taxonomy
- BOT 5623C Plant Geography and Ecology
- BSC 4312C Marine Biology
- CHM 3120C Analytical Chemistry
- CHS 4615 Environmental Chemistry
- EES 3004 Environmental Systems
- ENV 3001 Introduction to Environmental Engineering (PR: CHM 2046 & MAC 2312)
- MCB 3020C General Microbiology
- MCB 4603 Environmental Microbiology (PR: MCB 3020C)
- PCB 3023 Molecular Cellular Biology
- PCB 3033 Genetics
- PCB 3314 Marine Biodiversity
- PCB 3442 Florida Aquatic Ecology
- PCB 4302C Physiochemical Limnology
- PCB 4303C Biological Limnology
- PCB 4683 Population Biology & Evolution (PR: PCB 3063)
- PCB 4723 Animal Physiology (PR: PCB 3023)
- PCB 5045C Conservation Biology (PR: PCB 3063)
- PCB 5326C Ecosystems of Florida
- ZOO 5815 Zoogeography (PR: 8 hours of ZOO)

Prerequisites listed are those which are not already included in the GEP or Section II: Core for Environmental Studies.

6. Program Exit Requirements (0-8 hrs)

- A grade of “C” or above (2.0) is required for all courses taken in each of the subject areas and core
- Computer Competency is met by completing this major

7. Foreign Language Requirements (0-8 hrs)

- A grade of “C” or above (2.0) is required for all courses taken in a foreign language

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation

Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Modern Languages and Literatures, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses, with advisor approval.

9. University Minimum Exit Requirements

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

Total Required Hours 120 hours

Related Programs:
- Biology, Chemistry, Environmental Engineering
- Political Science, Economics

Related Minors:
- All minors

Transfer Notes

- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - LIBERAL ARTS TRACK (B.A.)
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

The Liberal Arts Track is a Bachelor of Arts degree program available to advanced students seeking an individualized, interdisciplinary, non-traditional major. The degree program is administered by the Office of Liberal and Interdisciplinary Studies within the College of Arts and Sciences.

Admission Requirements
None

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each restricted elective course
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Students must consult with a Liberal Studies advisor before entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a sub-ject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program (36 hrs)

A. Communication Foundations
- 9 hrs
LIBERAL STUDIES - NANOSCIENCE & NANO TECHNOLOGY TRACK (B.S.)

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Liberal Studies Nanoscience & Nanotechnology track is a university-wide program leading to a Bachelor of Science in Liberal Studies. Nanoscience and Nanotechnology is the study of the structure and behavior of materials at the atomic or molecular level. Through an understanding of how to manipulate atoms and molecules, it is possible to create devices and machines with unique properties and diverse applications.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each restricted elective course
- Students should consult with a Liberal Studies advisor when entering the program

Degree Requirements

- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program (39 hrs)
   A. Communication Foundations (9 hrs)
   B. Cultural and Historical Foundations (9 hrs)
   C. Mathematical Foundations (6 hrs)

2. Core Requirements (6 hrs)
   - Approved course in ethics
   - Approved course in critical thinking
   - 3 hrs

3. Core Requirements (42 hrs)
   - Complete an approved individualized minor, 24 hrs which must be developed with a Liberal Studies advisor
   - Complete the General Education Program, the Gordon Rule, the E.G.I. Transfer Notes:

4. Restricted Electives (42 hrs)
   - Approved course in critical thinking
   - Approved course in ethics
   - 3 hrs

5. Program Exit Requirements (6 hrs)
   - IDS 49XX Directed Reading/Research (3 hrs)
   - IDS 4970H Thesis (3 hrs)

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: 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.

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: Liberal Studies Track, CIT Track, Environmental Studies Track, Women’s Studies Track

Related Minors: All College of Arts and Sciences minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information

1. Select MGF 1106 Finite Mathematics (may substitute a higher level math)
2. Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course)
UCF Degree Programs

EMA 3XXX Nanomaterials Characterization & Appl
PHZ 3422 Nanophysics
BSC 3424 Nanobiotechnology
OSE 3490 Nanophotonics
PHI 4690 Ethics & Societal Implications in Nanotechnology

Subject Area #2 (one of the following areas)
Biological Science
Computer Science
Engineering
Health
Mathematical Sciences
Physical Sciences

4. Required Minor) (18 hrs minimum)
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)
Applied Computer Science (Computer Science)
Astronomy (Physical Sciences)
Biology (Biological Sciences)
Chemistry (Physical Sciences)
Cognitive Science (Interdisciplinary)
Computer Science (Computer Science)
English-Technical Writing (Letters)
Environmental Studies (Interdisciplinary)
Health Science (Health)
Mathematics (Mathematical Sciences)
Molecular Biology & Microbiology (Biological Sciences)
Pharmacy (Physical Sciences)
Psychology (Behavioral and Social Sciences)
Space Studies (Engineering)
Statistics (Mathematical Sciences)

5. Departmental Exit Requirements

A grade of “C” or above (2.0) is required for each courses taken in each of the subject areas
Computer Competency met by completion of track area and minor requirements.

6. Foreign Language Requirement (0-8 hrs)

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation-BS: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension

Note: Students entering without having met the admission requirements must 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.

8. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

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 Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - WOMEN’S STUDIES TRACK (B.A.)

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Women’s Studies Program
Liberal and Interdisciplinary Studies Office, CNH 201
http://www.cas.ucf.edu/womens_studies
E-mail: womenst@pegasus.cc.ucf.edu
Lisa Logan, 407-823-6502

Liberal Studies - Women’s Studies track is a broadly based interdisciplinary curriculum which leads to the Bachelor of Arts degree in Liberal Studies. The program is administered through the Office of Liberal and Interdisciplinary Studies, and the Women’s Studies Program in the College of Arts and Sciences.

Admission Requirements none

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students must have declared a Liberal Studies major - Women’s Studies track at least one semester before graduation.

Internship credit cannot be used in this track without prior permission.

Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.

Co op credit cannot be used in this track.

Students must earn at least a “C” (2.0) in each restricted elective course.

Students should consult with a Liberal Studies advisor when entering the degree program and regularly thereafter.

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

Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Mathematics (may substitute a higher level math)
Select STA 1060C Statistics Using Excel or STA 214C 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
Admission

6. Foreign Language Requirements (0-8 hrs)

Computer Competency is met by CGS 1060C, STA 1060C, or A grade of "C" or above (2.0) is required for each course taken in
5. Program Exit Requirements

Students must complete the Women's Studies minor

5. Program Exit Requirements

A grade of "C" or above (2.0) is required for each course taken in each of the subject areas

Computer Competency is met by CGS 1060C, STA 1060C, or departmental assessment

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

Note: Students entering without having met the admission requirement must do so in order to graduate

7. Electives (variable)

Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of Women's Studies.

8. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

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

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

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

Total Semester Hours Required 120 hours

Related Programs: Liberal Studies - Liberal Studies track; Liberal Studies - Liberal Arts track

Related Minors: Anthropology in Multicultural Studies

Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses

Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES ACCELERATED PROGRAM

(B.A./B.S. and M.A. /M.S.)

Accelerated Undergraduate/Graduate Program

Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Programs" section of this Undergraduate Catalog.

MANAGEMENT (B.S.B.A.)

College of Business Administration

BA 201, 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)

A. Communication Foundations 9 hrs

Required: SPC 1600

B. Cultural and Historical Foundations 9 hrs

C. Mathematical Foundations

Select MAC 1105 College Algebra 3 hrs

Select CGS 2100C Computer Fundamentals for Bus 3 hrs

D. Social Foundations

Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs

Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs

E. Science Foundation 6 hrs

2. Common Program Prerequisites

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

AGG 2021 Principles of Financial Accounting

AGG 2071 Principles of Managerial Accounting

ECO 2013 Macroeconomics

ECO 2023 Microeconomics

*ECO 3401 Quantitative Business Tools

CPS 2000C Computer Fundamentals for Business

*At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

Note: Undergraduate students will need professor’s permission to register for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.
UCF Degree Programs

3. Required for All Business Majors
Common Body of Knowledge
First Semester in the College of Business Administration:
- GEB 3501: Cornerstone 6 hrs
- GEB 3356: Introduction to Internation Business 3 hrs
First or subsequent semesters depending on major:
- BUL 3130: Legal & Ethical Environments of Business 3 hrs
- ECO 3411: Quantitative Business Tools II 3 hrs
- FIN 3023: Business Finance 3 hrs
- MAN 3025: Management of Organizations 3 hrs
- ISM 3011: Essentials of Management Information Systems 3 hrs
- MAR 3023: Marketing 3 hrs
Last Semester:
- MAN 4720: Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each Common Programs 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 3001: Human Resource Management 3 hrs
  - MAN 4240: Organizational Theory and Behavior 3 hrs
  - MAN 4320: Recruitment and Selection 3 hrs
  - MAN 4330: Compensation Administration 3 hrs
  - MAN 4350: Training and Development 3 hrs
  Elective Courses (choose among MAN courses and BUL 4540) (9 hrs)
  - MAN Elective 3 hrs
  - MAN Elective 3 hrs
  - MAN Elective/ BUL 4540 Employment Law 3 hrs

- General Management Track (24 hrs)
  Required Courses (15 hrs)
  - ISM 3530: Quality & Productivity Management 3 hrs
  - MAN 4101: Human Relations in Management 3 hrs
  - MAN 4240: Organizational Theory & Behavior 3 hrs
  - MAN 4600: International Management 3 hrs
  - MAN 4701: Business Ethics and Society 3 hrs
  Elective Courses (choose among MAN courses and BUL 4540) (9 hrs)
  - MAN Elective 3 hrs
  - MAN Elective 3 hrs
  - MAN Elective/ BUL 4540 Employment Law 3 hrs

- Management Track: Entrepreneurship (24 hrs)
  Required Courses (15 hrs)
  - MAN 3001: Human Resources Management 3 hrs
  - MAN 4802: Entrepreneurship 3 hrs
  - MAN 4XXX: Business Plan Preparation 3 hrs
  GE 4111: New Venture Finance or
  FIN 3470: Small Business Finance 3 hrs
  MAR 3641: Market Intelligence or
  MAR 3880: E-Marketing 3 hrs
  Elective Courses (choose among MAN courses and BUL 4540) (9 hrs)
  - MAN Elective 3 hrs
  - MAN Elective 3 hrs
  - MAN Elective/ BUL 4540 Employment Law 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
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives*** (variable)
Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- 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
1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3 ENC 1102* 3
Cult-Hist I* 3 Cult-Hist II* 3
SPC 1000 3 Art/Music/Lit 3
***Elective 3 ***Elective 3
***Elective 3***Elective 3

Must complete nine hours in a summer semester

Community/Junior College Transfer Notes

GENERAL MANAGEMENT TRACK
1st Term 15 hrs 2nd Term 15 hrs
GEB 3031 6 ISM 3011 3
BUL 3130 3 MAR 3023 3
ISM 3350 3 ECO 3411 3

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MAN 3025 3
**MAN Elective 3**
MAN 4701 3
**MAN Elective 3**
***Elective 3***
**Students select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.

HUMAN RESOURCE MANAGEMENT TRACK

Junior
First Term
15 hrs
MAN 3025 3
GEB 3356 3
MAR 3023 3
MAN 3025 3

15 hrs
MAN 4720 3
MAN 4330 3
**MAN Elective 3**
**MAN Elective 3**
***Elective 3***
**Students select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.

ENTREPRENEURSHIP TRACK

Junior
First Term
15 hrs
MAN 3025 3
GEB 3356 3
MAR 3023 3
MAN 3025 3

15 hrs
MAN 4720 3
MAN 4330 3
**MAN Elective 3**
**MAN Elective 3**
***Elective 3***
**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)
   Required: SPC 1600
   B. Cultural and Historical Foundations (9 hrs)
   C. Mathematical Foundations
   Select MAC 1105 College Algebra (3 hrs)
   Select CGS 2100C Computer Fundamentals for Bus (3 hrs)
   D. Social Foundations
   Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics (3 hrs)
   Select one: PSY 2012, SYG 2000, ANT 2000 (3 hrs)
   E. Science Foundation (6 hrs)

2. Common Program Prerequisites
   Must be completed with a 2.5 or better.
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   CGS 2100C Computer Fundamentals for Business
   *ECO 3401 Quantitative Business Tools I

   Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.
   waivered from ECO 3401.

3. Required for All Business Majors (30 hrs)
   Common Body of Knowledge
   First Semester in the College of Business Administration:
   GEB 3356 Cornerstone (6 hrs)
   MAN 3336 Introduction to International Business (3 hrs)
   First or subsequent semesters depending on major:
   BUL 3130 Legal & Ethical Environments of Business (3 hrs)
   ECO 3411 Quantitative Business Tools II (3 hrs)
   FIN 3403 Business Finance (3 hrs)
   MAN 3025 Management of Organizations (3 hrs)
   MAR 3023 Marketing (3 hrs)
   ISR 3001 Essentials of Management Info Systems (3 hrs)
   Last Semester:
   MAN 4720 Strategic Management (3 hrs)

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.5 GPA in Common Program Prerequisites.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
- All courses required for the major (including electives) must be completed with a grade of "C" (2.0) or better in order to graduate.
- All College of Business Administration students are expected to have access to late model computers and the software needed to complete class assignments. This requirement is especially important for MIS majors. Contact a department advisor for the current expectations.
- Students are cautioned to study the course prerequisite structure and the Four Year Plan of Study later in this section when planning their schedules. MIS course prerequisites cannot be waived.
- Lower division courses may not be taken for upper division credit in the major.
- Students must earn at least a 2.0 GPA in the major and COB.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.

5. Required Courses (22 hrs)
   ISM 3005 MIS Techniques (4 hrs)
   ISM 4113 Information Systems Analysis & Design (3 hrs)
   ISM 4130 Information Systems Implementation (3 hrs)
   ISM 4122 Database Management Systems (3 hrs)
   ISM 4220 Distributed Information Systems (3 hrs)
   ISM 4300 Information Technology Management (3 hrs)
   ISM 4400 Decision Support Systems (3 hrs)

Plus two of the following: (6 hrs)
Any 3000 or 4000 level ISM prefix course, excluding those listed in the minor.

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 hours

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college. This includes the areas of MIS, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCFCollege of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS 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 1000 3 Art/Music/Lit 3
***Elective 3 MAC 1105* 3
***Elective 3 CGS 2100C* 3

Must complete nine hours in a summer semester

Sophomore

1st Term 15 hrs 2nd Term 15 hrs
ECO 2023* 3 ECO 2013* 3
ACG 2021* 3 ACG 2071* 3
Science 3 Science 3
Psy/Soc/Ant 3 ***Elective 3
***Elective 3 ECO 3401* 3

* “C” (2.0) or better grade required in each class

Junior

1st Term 15 hrs 2nd Term 16 hrs
GEB 3031 3 MAR 3023 3
ISM 3011 3 ISM 4400 3
ISM 3005 4 ISM 4212 3
GEB 3356 3 ISM 4220 3

Senior

1st Term 15 hrs 2nd Term 15 hrs
ISM Elective 3 MAN 4720 3
FIN 3403 3 ISM 4300 3
ISM Elective 3 ISM 4130 3
MAN 3025 3 ISM Elective 3
ISM 4113 3 BUL 3130 3

***General electives as required to reach 120 semester hours.

MARKETING (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
   Required: SPC 1600
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 3 hrs
   Select MAC 1105 College Algebra
D. Social Foundations 3 hrs
   Select ECO 2013 Macroeconomics or
   ECO 2023 Microeconomics
   Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

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

3. Required for All Business Majors (30 hrs)
Common Body of Knowledge
First Semester in the College of Business Administration:
GEB 3031 Cornerstone 3 hrs
GEB 3356 Introduction to International Business 3 hrs
First or subsequent semesters depending on major:
BUL 3130 Legal & Ethical Environments of Business 3 hrs
ECO 3411 Quantitative Business Tools II 3 hrs
FIN 3403 Business Finance 3 hrs
MAN 3025 Management of Organizations 3 hrs
ISM 3011 Essentials of Management 3 hrs
ISM 3023 Information Systems 3 hrs
Last Semester:
MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- 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 4803 Marketing Management 3 hrs
   MAR 4804 Marketing Strategy 3 hrs
6. Restricted Electives – General Marketing (9 hrs)
Minimum of 3 courses required
- MAR 3323 Integrated Marketing Communication 3 hrs
- MAR 3403 Sales Force Management 3 hrs
- MAR 3880 E-Marketing 3 hrs
- *MAR 4156 International Marketing 3 hrs
- MAR 4231 Retailing Management 3 hrs
- MAR 4711 Sport Marketing 3 hrs
- MAR 4712 Healthcare Marketing 3 hrs
- MAR 4715 Entertainment Marketing 3 hrs
- *MAR 4724 Strategic Foundations in Global e-Business 3 hrs
- MAR 484L 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. Required Electives - Sales Track* (9 hrs)
- MAR 3403 Sales Force Management 3 hrs
- MAR 3439 Advanced Professional Selling 3 hrs
- MAR 44YY 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 30 sales track participants based on academic achievement, work experience, outside activities and leadership positions, and responses to questions on the application form. MAR 4XXX is offered in the Fall semester; 4YYY 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) and/or take the small business consulting class (MAR 5914). MAR 5941 cannot count as one of the three restricted electives required of marketing majors. For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: http://www.bus.ucf.edu/mar/.

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics classes will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.

- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY – GENERAL MARKETING

Freshman
- 1st Term 15 hrs
  - ENC 1101* 3
  - Cult-Hist I* 3
  - ECO 2013* 3
  - MAC 1105* 3
- 2nd Term 15 hrs
  - ENC 1102* 3
  - Cult-Hist II* 3
  - ECO 2014* 3
  - MAC 1106* 3
- 15 hrs

Sophomore
- 1st Term 15 hrs
  - ECO 2022* 3
  - ACG 2021* 3
  - Science 3
  - Psychology/Social Science 3
- 2nd Term 15 hrs
  - ECO 2022* 3
  - ACG 2021* 3
  - Science 3
  - Cognitive/Social Science 3
- 15 hrs

Junior
- 1st Term 15 hrs
  - ECO 3411 3
  - GEB 3031 6
  - GEB 3356 3
  - MAR 3023 3
- 2nd Term 15 hrs
  - ECO 3412 3
  - GEB 3031 6
  - GEB 3356 3
  - MAR 3023 3
- 15 hrs

Senior
- 1st Term 15 hrs
  - ECO 3413 3
  - GEB 3031 6
  - GEB 3356 3
  - MAR 3023 3
- 2nd Term 15 hrs
  - ECO 3414 3
  - GEB 3031 6
  - GEB 3356 3
  - MAR 3023 3
- 15 hrs

General electives as required to reach 120 semester hours.

FOUR YEAR PLAN OF STUDY – MARKETING: SALES TRACK

Freshman
- 1st Term 15 hrs
  - ENC 1101* 3
  - Cult-Hist I* 3
  - SPC 1600 3
  - **ELECTIVE 3
  - ***ELECTIVE 3
- 2nd Term 15 hrs
  - ENC 1102* 3
  - Cult-Hist II* 3
  - SPC 1600 3
  - **ELECTIVE 3
  - ***ELECTIVE 3
- 15 hrs

Sophomore
- 1st Term 15 hrs
  - ECO 2022* 3
  - ACG 2021* 3
  - Science 3
  - Psychology/Social Science 3
- 2nd Term 15 hrs
  - ECO 2022* 3
  - ACG 2021* 3
  - Science 3
  - Psychology/Social Science 3
- 15 hrs

Junior
- 1st Term 15 hrs
  - ECO 3411 3
  - GEB 3031 6
  - GEB 3356 3
  - MAR 3023 3
- 2nd Term 15 hrs
  - ECO 3412 3
  - GEB 3031 6
  - GEB 3356 3
  - MAR 3023 3
- 15 hrs

Senior
- 1st Term 15 hrs
  - ECO 2022* 3
  - ACG 2021* 3
  - Science 3
  - Psychology/Social Science 3
- 2nd Term 15 hrs
  - ECO 2022* 3
  - ACG 2021* 3
  - Science 3
  - Psychology/Social Science 3
- 15 hrs

General electives as required to reach 120 semester hours.
Students who change degree programs and select this major

Degree Requirements

Admission Requirements none

2311H, MAC 2312H, MAC 2313H, and MAP 2302H. These courses are with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

The Department of Mathematics offers special courses for students in the Honors Program. These courses are with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H. Students who change degree programs and select this major

Department Admission

Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the Department of Mathematics at UCF.

Co-op or internship credit cannot be used in this major.

Students must earn at least a “C” (2.0) in each required course.

Students should consult with a departmental advisor.

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

1. UCF General Education Program (36 hrs)

(Note: Certain courses must be selected in the GEP for this major which bring the GEP hours above 36)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 4 hrs
Select MAC 2311 Calculus with Analytic Geo I
Select COP 3502C Computer Science I
D. Social Foundations 6 hrs
E. Science Foundations 4 hrs
Select BSC 2010C Biology I
Select PHY 2048 & L Physics for Sci & Eng I

2. Common Program Prerequisites (11 hrs)

COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
BSC 2010C* Biology I 4 hrs
PHY 2048* & L Physics for Sci & Eng I & Lab

*See Transfer Notes for possible substitutes

3. Core requirements (48 hrs)

PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
One course selected from:
ENC 3310 Magazine Writing I
ENC 3311 Advanced Expository Writing
STA 2023 Statistical Methods I
MTH 3302 Logic and Proof in Mathematics
MAP 2302 Differential Equations 3 hrs
MAS 3015 Matrix & Linear Algebra 4 hrs
MAS 3106 Linear Algebra 4 hrs
Select one course:
MAC 2311 Calculus with Analytic Geo I
MAC 2312 Calculus with Analytic Geo II
MAC 2313 Calculus with Analytic Geo III
MTH 4900 Independent Study

4. Restricted Electives (6 hrs)

a. Applied Elective 3 hrs
Select from COT 4210, COT 4110, COT 5507, COT 5510, EGN 3310, EGN 3321, EGN 3343, EGN 3373, STA 4102, STA 5103, STA 4641

b. Biological or physical sciences restricted 3 hrs
Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CHM 3410, CHM 2210, PHY 3101, PHY 3323, PHY 4224, PHY 4424, PHY 4694

5. Departmental Exit Requirements

Admission: Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-4 above)
Participate in an exit interview, and take an Educational Testing Service major field test.
Computer Competency met by COP 2200

6. Foreign Language Requirements

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

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

A. 2.0 UCF GPA
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)

Total Semester Hours Required 120 hours

Related Programs: Applied Math, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223* may use any programming language course with a COP prefix.
- BSC 2010C*, may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Math placement See catalog 0

Freshman Year
Fall Spring
ANT 2005* req# ID2-GEP 3 BSC 2010C Biology I 4
ENC 1101 Composition I 3 ENC 1102 Composition II 3
MAC 2311 Calc Anal Geo I 4 MAC 2312 Calc Anal Geo II 4
STA 2023 Stat Methods I 3 MTH 3302 Logic and in Math 3

Sophomore Year
Fall Spring
COM 1000* req# IA3-GEP 3 PDS 2041* req# ID1-GEP 3
PHY 2048 Phy for Eng Sci I 3 MAP 2302 Diff Equations 3
Select one course 3 hrs

4. Advanced Core Requirements (18 hrs)

Select six upper division courses

- COP 3402C Systems Software 3 hrs
- COP 3530C Computer Science III 3 hrs
- CDA 4150 Computer Architecture 3 hrs
- COP 4020 Programming Languages I 3 hrs
- COP 4600 Operating Systems 3 hrs
- COP 4210 Discrete Computational Structures 3 hrs

or any MAA, MAD, MAS, or MTG upper division courses

5. Restricted Electives

none

6. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C.

7. Foreign Language Requirements

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

Graduation: none

8. Electives (variable)

Students desiring to complete a double major in both Computer Science and Applied Mathematics must also complete all the requirements of the School of Computer Science. To minimize the total hours taken for both majors, students should select an advanced computer science course for the unrestricted elective.

9. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:

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

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

- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.
MATHEMATICS - ENGINEERING/ PHYSICS TRACK (B.S.)

College of Arts and Sciences
Department of Mathematics, MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, 2312, 2313 (or MAC 2281, 2282, 2283), and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MAC 2311 Calculus I 4 hrs
   Select COP 3502C Computer Science I 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
   Select BSC 2010C Biology I 4 hrs
   Select PHY 2048 & L Physics for Sci & Engr I 4 hrs

2. Common Program Prerequisites

   (11 hrs)
   COP 3227* Intro to Programming with C 3 hrs
   MAC 2311 Calculus with Analytic Geo I GEP
   MAC 2312 Calculus with Analytic Geo II 4 hrs
   MAC 2313 Calculus with Analytic Geo III 4 hrs
   BSC 2010C* Biology I GEP
   PHY 2048* &L Physics for Sci & Eng I w/lab
   *See Transfer Notes for possible substitutes

3. Basic Core Requirements

   (10 hrs)
   COP 3502C Computer Science I GEP
   PHY 2049 &L Physics for Sci & Eng II w/lab 4 hrs
   MAP 2302 Differential Equations 3 hrs
   Select one course
   STA 3022 Prob. & Stats for Engineers 3 hrs
   STA 2023 Statistical Methods I 3 hrs

4. Advanced Core Requirements

   (54 hrs)
   Select one course
   MTH 3302 Logic and Proof in Mathematics 3 hrs
   COT 3100C Intro to Discrete Structures
   Select one course
   MAP 4103 Mathematical Modeling 3 hrs
   EML 3034 Modeling Meth in Mech. & Aero Eng
   PHZ 3151 Computer Methods in Physics
   MAP 4153 Vector and Tensor Analysis 3 hrs
   MAP 4307 Appl of Complex Variables 3 hrs
   MAP 4363 Appl Boundary Value Prob I 3 hrs
   MAP 4364 Appl Boundary Value Prob II 3 hrs
   MAA 3226 Advanced Calculus I 4 hrs
   EGN 3921 Engineering Analysis - Dynamics 3 hrs
   Select one course
   EGN 3420 Engineering Analysis 3 hrs
   COT 4500 Numerical Calculus 4 hrs
   Select one course
   MAS 3106 Linear Algebra 3 hrs

5. Restricted Electives

   (9 hrs)
   Select one course
   STA 4321 Statistical Theory I 3 hrs
   STA 3304 Intro to Indust. Eng. & Mngmnt Sys 3 hrs
   EAS 3101 Aerodynamics I 3 hrs
   EGM 3501 Solid Mechanics 3 hrs
   EEL 3342C Intro. to Digital Circuits and Systems 3 hrs
   EEL 3801C Intro. to Computer Engineering 3 hrs
   EEL 3571 Linear Control Systems 3 hrs
   EML 4142 Heat Transfer 3 hrs
   EML 4312C Feedback Control 3 hrs
   ELM 4220C Kinematics and Mechanisms 3 hrs
   EAS 4200 Flight Structures 3 hrs
   EAS 4400 Spacecraft Attitude Dynamics 3 hrs
   EAS 4505 Orbital Mechanics 3 hrs
   EAS 4105 Flight Mechanics 3 hrs
   EML 4703 Fluid Mechanics II 3 hrs
   EMA 4223 Deformation and Fracture of Materials 3 hrs
   CWR 4203C Hydraulics 3 hrs
   EEL 4101C Hydrology 3 hrs
   ENV 4561 Environmental Eng Processes & Design 3 hrs
   ESI 4234 Quality Engineering 3 hrs
   ESI 4523C Systems Simulation 3 hrs
   EIN 4333C Industrial Control Systems 3 hrs
   EIN 3304 Intro to Ther. Methods of Physics 3 hrs
   EML 4220 Eng. Applications of Computer Models 3 hrs
   EML 4851C Engineering Data Structures or any MAA, MAD, MAP, or MAS course at 3000 level or above 3 hrs

6. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by EGN 3420 or COP 3502C.

7. Foreign Language Requirements

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
8. Electives (variable)

Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

9. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHMATICS - PURE TRACK (B.S.)

College of Arts and Sciences

Department of Mathematics, MAP 207 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
H. Martin, MAP 231F, 407-823-5700, E-mail: martins.math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H and bring the GEP hours above 36.)

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, 2312, 2313, and MAP 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 Advisor) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations
   9 hrs
B. Cultural and Historical Foundations
   9 hrs
C. Mathematical Foundations
   9 hrs

Select MAC 2311 Calculus I 4 hrs
Select COP 3502C Computer Science I 3 hrs
D. Social Foundations
   6 hrs
E. Science Foundations
   Select BSC 2010C Biology I 4 hrs
   Select PHY 2048 & L Physics for Sci & Eng I (PR:MAC 2311) 4 hrs

2. Common Program Prerequisites (11 hrs)

COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
BSC 2010C* Biology I GEP
PHY 2048* & L Physics for Sci & Eng I & Lab GEP
*See Transfer Notes for possible substitutes

3. Core requirements (53 hrs)

PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
One course selected from
- ENC 3241 Writing for the Tech Professional
- ENC 3310 Magazine Writing
- ENC 3311 Advanced Expository Writing

STA 2023 Statistical Methods 3 hrs
MHF 3302 Logic and Proof in Mathematics 3 hrs
MAP 2302 Differential Equations 3 hrs
MAS 3105 Matrix & Linear Algebra 4 hrs
MAS 3106 Linear Algebra 4 hrs
MAP 4303 Applied Boundary Value Prob I 3 hrs
STA 4321 Statistical Theory I 3 hrs
MAS 4301 Algebraic Structures 3 hrs
STA 4322 Statistical Theory II 3 hrs
COP 3502C Computer Science II 3 hrs
MAA 4226 Advanced Calculus I 3 hrs
MAD 2606 Combinatorics & Graph Theory 4 hrs
MTG 4232 Introduction to Topology 3 hrs
MAP 4307 Appl to Complex Variables 3 hrs

4. Restricted Electives (3 hrs)

Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CM 2210, CM 2046, PHY 3101, PHY 3323, PHY 4242

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C

6. Foreign Language Requirements

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

Graduation: None

7. Electives (variable)

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

8. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: Statistics, Applied Math, Computer Science, Engineering, Math Education

Related Minors: Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes: None
### UCF Degree Programs

- Complete the University General Education requirements or its equivalent. Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

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

- COP 3223*: may use any programming course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Summer

<table>
<thead>
<tr>
<th>Math placement See catalog</th>
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#### Freshman Year

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<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ANT 2000* reqi 1D2-GEP</td>
<td>BSC 2010C Biology I</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
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<tr>
<td>MAC 2311 Calc Anal Geo I</td>
<td>MAC 2312 Calc Anal Geo II</td>
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<td>STA 2023 Stat Methods I</td>
<td>MUF 3302 Logic and in Math</td>
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#### Sophomore Year

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<th>Fall</th>
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<td>COM 1000* reqi 1A3-GEP</td>
<td>POS 2041* reqi 1D1-GEP</td>
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<tr>
<td>PHY 2048 Phy for Eng Sci I</td>
<td>MAP 2302 Diff Equations</td>
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<td>PHY 2048L Phy L Eng Sci I</td>
<td>MAS 3106 Linear Algebra</td>
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<td>MAC 2311 Calc Anal Geo III</td>
<td>PHY 2049 Phy for Eng Sci II</td>
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<td>MAS 3105 Matrix and Lin Alg</td>
<td>PHY 2049L Phy L Eng Sci I</td>
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#### Junior Year

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<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 3223 Intro to Prog C</td>
<td>COP 3502C Computer Science I</td>
</tr>
<tr>
<td>MAP 4363 Ap Bound Prob I</td>
<td>MUL 2010* reqi 1B2-GEP</td>
</tr>
<tr>
<td>MAS 4301 Algebraic Struct</td>
<td>MAP 4307 App complex var</td>
</tr>
<tr>
<td>Elective* Check restrictions</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>AMH 2010* reqi 1B1-GEP</td>
<td>ARH 2050* reqi 1B3-GEP</td>
</tr>
<tr>
<td>ENC 3241* reqi 3-Core</td>
<td>MAA 4227 Adv Calculus II</td>
</tr>
<tr>
<td>MAA 4226 Adv Calculus I</td>
<td>MAA 4226 Adv Calculus I</td>
</tr>
<tr>
<td>MAD 4015 Comb Theory</td>
<td>MAD 4015 Comb Theory</td>
</tr>
<tr>
<td>STA 4321 Stat Theory I</td>
<td>STA 4321 Stat Theory I</td>
</tr>
</tbody>
</table>

#### Mathematics Education (B.S.)

**College of Education**

**Department of Teaching and Learning Principles**

**Program Coordinator:** Dr. Michael Hynes

**ED 209:** [http://pegasus.cc.ucf.edu/~mathed](http://pegasus.cc.ucf.edu/~mathed)

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

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### Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses.

### Degree Requirements

- Students should see an advisor.

#### 1. UCF General Education Program

<table>
<thead>
<tr>
<th>A. Communication General Education Program</th>
<th>(37 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 2. Common Program Prerequisites

<table>
<thead>
<tr>
<th>A. Communications</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Communication</td>
<td>GEP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Humanities</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>GEP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Mathematics</th>
<th>(11 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311 Calculus with Analytic Geometry I</td>
<td>GEP</td>
</tr>
<tr>
<td>MAC 2312 Calculus with Analytic Geometry II</td>
<td>GEP</td>
</tr>
<tr>
<td>STA 2023 Statistical Methods I</td>
<td>GEP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Social Science</th>
<th>(12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2010 U.S. History 1492-1877</td>
<td>GEP</td>
</tr>
<tr>
<td>AMH 2020 U.S. History 1877-Present</td>
<td>GEP</td>
</tr>
<tr>
<td>PSC 2041 American National Government</td>
<td>GEP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E. Science</th>
<th>(10 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2040* reqi 1D1-GEP</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 2048 Phy for Eng Sci I</td>
<td>MUL 2010* reqi 1B2-GEP</td>
</tr>
<tr>
<td>MAP 2302 Diff Equations</td>
<td>MAP 2307 App complex var</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F. Education</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4063 Analysis of Critical Issues in Education</td>
<td>GEP</td>
</tr>
<tr>
<td>EDF 4214 Classroom Learning Principles</td>
<td>GEP</td>
</tr>
<tr>
<td>TSL 4008 Theory and Practice of Teaching ESL</td>
<td>GEP</td>
</tr>
<tr>
<td>LAE 4361 Literacy Strategies for Mid/High School</td>
<td>GEP</td>
</tr>
</tbody>
</table>

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### 3. EducationCore Requirements

<table>
<thead>
<tr>
<th>EDG 4323 Professional Teaching Practices</th>
<th>3 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4063 Analysis of Critical Issues in Education</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDF 4214 Classroom Learning Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TSL 4008 Theory and Practice of Teaching ESL</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LAE 4361 Literacy Strategies for Mid/High School</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 4. Internship I (ESE3940)

- Program Internship I Prerequisites: EDG 4323 and at least 50% of all required mathematics courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.

- See additional requirements listed under College of Education, Office of Clinical Experiences.

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### 5. Specialization Requirements

| MAP 2302 Differential Equations | 3 hrs |

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**NOTE:** Some course waivers/substitutions may be possible. See advisor.
MAP 4103 Mathematical Modeling 3 hrs
MAS 4301 Algebra Structure 3 hrs
MAD 4203 Combinatorics & Graph Theory 4 hrs
MAE 4380 Mathematics Instructional Analysis 4 hrs
MAE 4634 Programs in Teaching Mathematics 3 hrs
MAS 3105 Elementary Linear and Matrix Algebra 4 hrs
MAS 3203 Introduction to Number Theory 3 hrs
MIF 3302 Logic and Proof in Mathematics 3 hrs
MIF 4404 History of Mathematics 3 hrs
MTG 4212 Modern Geometry 4 hrs

6. Internship II (ESE4943) (12 hrs)
- At least 80% of all required mathematics courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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

8. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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)

10. Total Program Semester Hours Required 128 hours
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Recommended Four-Year Sequence of Courses
Freshman Year
Fall (17 hrs)  Spring (16 hrs)
EDG 2701 3 hrs AMH 2010 3 hrs
ENC 1101 3 hrs ENC 1102 3 hrs
MAC 2311 4 hrs MAC 2312 4 hrs
PSC 1121 3 hrs STA 2023 3 hrs
PSE 1121L 1 hr ANT 2511 or 3 hrs
SPC 1500 3 hrs BSC 1005 3 hrs
Summer (10 hrs)
EDF 2005 3 hrs
MAC 2313 4 hrs
PHI 2010 3 hrs

Sophomore Year
Fall (15 hrs)  Spring (16 hrs)
MAP 2302 3 hrs AMH 2020 3 hrs
MIF 3302 3 hrs EME 2040 3 hrs
PSY 2012 3 hrs MAS 3105 4 hrs
AST 2002 or 3 hrs MAS 3203 3 hrs
GEO 1200 or 3 hrs POS 2041 3 hrs
GLY 1030 3 hrs

THE 2000 or
FIL 2400

Junior Year
Fall (17 hrs)  Spring (12 hrs)
EDF 4603 3 hrs EDF 4214 3 hrs
EDG 4323 3 hrs MAE 4634 3 hrs
MAE 4380 4 hrs MAP 4103 3 hrs
MAH 4404 3 hrs MTG 4212 4 hrs
MTG 4212 4 hrs

Senior Year
Fall (13 hrs)  Spring (12 hrs)
ESE 3940 3 hrs ESE 4943 12 hrs
LAE 4361 3 hrs
MAE 4203 4 hrs
MAS 4301 3 hrs

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

R. H. Chen, Associate Chairman, ENGR 307, E-Mail: chenrh@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

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

A. Communication Foundations 9 hrs
1. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 7 hrs
1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).

Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3032 (3 hrs).

Note: Calculus II is the prerequisite for this course.

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

E. Science Foundations 7 hrs
1. Take PHY 2048/48L.

2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440 Fundamentals of Chemistry for Eng (CHM 2045/45L will substitute) 4 hrs
MAC 2311 Calculus with Analytic Geometry I GEP
MAC 2312 Calculus with Analytic Geometry II GEP
MAC 2313 Calculus with Analytic Geometry III GEP
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP
PHY 2049/49L Physics for Engineers & Scientists II GEP
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
Humanities Courses GEP
3. Courses Required for the Major (68 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 111C Engineering Computer Graphics 2 hrs
- EGN 1007C Engineering Concepts & Methods 1 hr
- EGN 3310 Engineering Analysis - Statics 3 hrs
- EGN 3321 Engineering Analysis - Dynamics 3 hrs
- EGN 3343 Thermodynamics 3 hrs
- EGN 3365 Structure & Properties of Materials 3 hrs
- EGN 3373 Principles of Electrical Enginnering 3 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- EML 3034 Modeling Methods in MAAE 3 hrs
- EML 3303C Mechanical Engrgm 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 4553C Introduction to CAD/CAM 3 hrs

Select one of the following three options for your year to complete your BSME. (16 hrs)

- a. Energy Systems Option
  - EML 3301 Thermodynamics of Mechanical Sys 3 hrs
  - EML 4304C Thermo-fluids Measurements 2 hrs
  - EML 4703 Fluid Mechanics II 3 hrs
  - Restricted Mechanical Systems Elective 3 hrs
  - Approved Electives 8 hrs

- b. Mechanical Systems Option
  - EMA 3012C Experimental Techniques in Mechanics & Materials 3 hrs
  - EML 3262C Kinematics of Mechanisms 3 hrs
  - EML 3804C Digital Control in Mechatronics 3 hrs
  - Restricted Energy Systems Elective 3 hrs
  - Approved Electives 7 hrs

- c. Materials Option
  - EMA 3012C Experimental Techniques in Mechanics & Materials 3 hrs
  - EMA 4102 Thermodynamics and Kinetics of Materials 3 hrs
  - EMA 3124 Design and Selection of Materials 3 hrs
  - Restricted Materials Systems Elective 3 hrs
  - Approved Electives 7 hrs

4. Departmental Graduation Requirements (6 hrs)

- EML 4501C Engineering Design I 3 hrs
- EGN 4413C Interdisciplinary Design II 3 hrs
- EGN 4412C Inter Design I 3 hrs
- EGN 4413C Inter Design II 3 hrs
- EML 4501C Eng Design I or 3 EGN 4413C Inter Design II

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.

- Approved Restricted and Technical Electives
  - Fall:
    - EGN 1006C Intro to Eng Prof
    - EGN 111C Eng Computer Graphics
    - EGN 1007C Eng Concepts & Methods
    - EGN 3310 Eng Analysis - Statics
    - EGN 3321 Eng Analysis - Dynamics
    - EGN 3343 Thermodynamics
    - EGN 3365 Struct & Properties of Materials
    - EGN 3373 Principles of Elect Enginnering
    - STA 3032 Probability & Statistics for Engineers
    - EML 3034 Modeling Methods in MAAE
    - EML 3303C Mech Engrgm Measurements
    - EML 4312C Feedback Control
    - EML 3500 Machine Design & Analysis
    - EGM 3601 Solid Mechanics
    - EML 3701 Fluid Mechanics I
    - EML 4142 Heat Transfer
    - EML 4220 Vibration Analysis
    - EML 4553C Introduction to CAD/CAM

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 45 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
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 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.
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.
4. Mechanical engineering students must earn at least 32 hours in residence at UCF.

Important Notice
- Bolded course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.
- These courses are offered only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.
- Non-bolded course may be taken at any time as long as all prerequisites have been met. 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.

Integrated BS/MS Degree Program
The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated BS/MS Program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

MEDICAL LABORATORY SCIENCES (B.S)
Burnett College of Biomedical Sciences
HPA2 335, 407-823-5932
http://www.biomed.ucf.edu
Undergraduate Program Director: Dorilyn Hitchcock
E-mail: hitchcvo@email.ucf.edu

Admission Requirements
- Limited Access
Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

Separate application to the limited access program should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.

UCF application must also be submitted by the program deadline. Acceptance to UCF is necessary before acceptance to the program can occur.

Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.

This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of “C” (2.0)

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 Prerequisite Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program
- UCF Residency Requirement: 32 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours
- An FDLE background check and Board of Clinical Lab Personnel trainees license are required.

1. UCF General Education Program (38 hrs)
A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
D. Social Foundations 6 hrs
E. Science Foundations 8 hrs

2. Common Program Prerequisites (25 hrs)
BSC 2010C Biology I and lab GEP
CHM 2045C, 2046 Chemistry Fundamentals I&II w/labs GEP, 4 hrs
STA 2023 Statistical Methods I GEP
ZOO 3733C Human Anatomy and Lab* 4 hrs
CHM 2210, 2211 Organic Chemistry I&II w/labs 8 hrs
MCB 3020C General Microbiology* 5 hrs
PCB 3703C Human Physiology and Lab* 4 hrs
* see Transfer Notes

3. Core Requirements (63 hrs)
MLS 3305 Hematology with Lab* 4 hrs
MLS 4420C Clinical Parasitology 2 hrs
MLS 4430C Clinical Parasitology 2 hrs
MLS 4505C Immunodiagnostics 3 hrs
MLS 4905 Intro to Clinical Research 1 hr
MLS 4580C Clinical Immunohematology 4 hrs
MLS 4400C Clinical Mycology 1 hr
MLS 4460C Clinical Pathogenic Microbiology 4 hrs
MLS 4334 Hemostasis 3 hrs
MLS 4933 Medical Technology Seminar 1 hrs
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
CGS 2100C Computer Fundamentals for Business 3 hrs
BSC 3404 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)
UCF Degree Programs

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 hours

Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

Related Minors: Biology, Chemistry

Transfer Notes:
- Community College Equivalencies
- Human Anatomy and Physiology I & II
- General Microbiology/Lab (MCB 2013)

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall 16 hrs Spring 17 hrs
ENC 1101 3 ENC 1102 3
MAC 1105 3 BSC 2010C 4
SPC 1000 3 CHM 2046 3
CHM 2045C 4 CHM 2046L 1
CGS 2100C 3 ANT 2000 or SYG 2000 3
or PSA 2102 3
STA 2023 3
Sophomore Year

Fall 16 hrs Spring 17 hrs
POS 2041 or ECO 2013 3 CMH 2211 3
CHM 2010 3 CMH 2211L 2
ZOO 3733C 4 MCB 3020C 5
EHU 2000 or HUM 2211 3 PCB 3703C 4
or AMH 2010 3 EHU 2001 or HUM 2230 3
or AMH 2020 3
MLE 2010 or THE 2000 or REL 2300 or PHI 2010 3
Junior Year

Fall 13 hrs Spring 16 hrs
MLS 3220C 3 MLS 3305L 3/1
MLS 4625L 3/1 MLS 4630 3
PCB 3233L 3/1 MLS 4640 4
MLS 4430C 2 MLS 4550 4
or MLS 4420 1
Summer 6 hrs
CGS 1060 3
MLS 4334 3
Senior Year

Fall 16 hrs Spring 12 hrs
MLS 4830C 4 MLS 4912 1
MLS 4831C 4 MLS 4505 3
MLS 4832C 4 MLS 4933 1
MLS 4833C 4 MLS 3705 3
or BSC 2044 4

MODERN LANGUAGE COMBINATION (B.A.)

College of Arts and Sciences
Department of Modern Languages & Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
E-mail:moderlanguages@ucf.edu
P. Giordano, 407-823-2472

Admission Requirements

- Placement in Language courses
- Placement in language courses is based on one year of high school language being equivalent to one semester of college work. Students must consult an advisor.
- 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 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 student by Examination in literature courses only.
- Students must see their departmental advisor for counseling and schedule approval before registering.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
B. Cultural and Historical Foundations (9 hrs)
C. Mathematical Foundations (3 hrs)
Select MGF 1106 Finite Mathematics (may substitute a higher level math) (3 hrs)
D. Social Foundations (3 hrs)
E. Science Foundations (6 hrs)

2. Common Program Prerequisites (0-14 hrs)

Completion of Intermediate level of proficiency.

3. Core requirements-first language (24 hrs)

(a) Composition (select one)
- SPN 3420* Spanish Composition
- FRE 4422* Advanced French Composition
- GER 3420* German Composition

(b) Oral Communication (select one)
- 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
- FRO 3780 French Phonetics and Diction
- GER 3780 German Phonetics and Diction
- SPN 4801 Spanish Morphology
- SPN 4800 Spanish American Syntax
- SPN 4780 Spanish Phonetics

(e) Restricted Electives in the first language (chosen with departmental advisor) (9 hrs)

4. Core requirements-second language (15 hrs)

(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 (chosen with departmental advisor) (9 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 residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

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

10. University Exit Requirements

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

11. 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.

12. 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.

13. Freshman Year
   - Fall: BSC 1005* req# 1E2-GEP 3
   - Spring: MUL 2010* req# 1B2-GEP 3
   - Summer: CHEM 1010C Intro to Chemistry 3

14. Sophomore Year
   - Fall: ANT 2000* req# 1D2-GEP 3
   - Spring: REL 2300* req# 1B3-GEP 3
   - Summer: CHEM 2100C General Chemistry II 4

15. Junior Year
   - Fall: SPN 3420* req# 3a-Core1 3
   - Spring: SWP 3100* req# 3d-Core1 3
   - Summer: PHY 2053 or 2054 3

16. Senior Year
   - Fall: SWP 3100* req# 3c-Core1 3
   - Spring: MCB 4114C Genetics 3

17. Related Programs: French, Spanish

18. Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies

19. 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.

20. 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.
MCB 5932  Current Topics in Molecular Biology  3 hrs
MCB 5505  Molecular Virology  3 hrs
MCB 5554  Applied Microbiology  3 hrs
MCB 4503C  Virology  3 hrs
MSL 3220C  Clinical Microscopy with lab  3 hrs
*MLS 3305  Hematology  3 hrs
*MLS 4334  Hemostasis  3 hrs
*MLS 4420C  Clinical Parasitology  2 hrs
*MLS 4505C  Immunodiagnostics  3 hrs
MLS 4625  Advanced Clinical Chemistry I  3 hrs
MLS 4630  Advanced Clinical Chemistry II  3 hrs
*PCB 4550C  Human Physiology  4 hrs
*PCB 4805  Endocrinology  3 hrs
PCB 4529  Experimental Molecular Biology  3 hrs
PCB 5275  Signal Transduction Mechanisms  3 hrs
PCB 5239  Immunopathology  4 hrs
PCB 5239  Tumor Biology  3 hrs
*ZOO 3701C  Dissection Techniques  2 hrs
*ZOO 3733C  Human Anatomy  4 hrs
*ZOO 4703C  Vertebrate Embryology  5 hrs
*ZOO 3744  Neurobiology  3 hrs
*ZOO 4753C  Vertebrate Histology  4 hrs
ZOO 5745C  Essentials of Neuroanatomy  4 hrs
ZOO 4XXX  Clinical Neuroanatomy and Neuroscience  4 hrs

* Recommended for Preprofessional students

** Those students interested in pursuing graduate or professional education are strongly advised to select the following courses. Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Calculus II (MAC 2253, 2254) or Calculus with Analytic Geometry I & II (MAC 2311, 2312).

5. Departmental Exit Requirements (81-91 hrs)

5.1 To be eligible for a major in Molecular Biology and Microbiology:
   - A student must complete all coursework in the baccalaureate curriculum as shown and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives.
   - Independent study, directed research, or similar credit may not be used as a Restricted Elective.
   - A minimum of 20 hours must be taken at UCF in the department of the major.
   - Students will be required to take a comprehensive test during their last semester.

5.2 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)

7.1 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 hours

Related Programs: Biology, Chemistry, Medical Lab Science

Related Minors: Biology, Chemistry

Transfer Notes:
Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University’s requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 hours of upper division coursework at UCF.

Honors in the Major

- Application and admission through the department and 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

Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>13/14 hrs</th>
<th>Spring</th>
<th>17 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>3</td>
<td>ENC 1102</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012 or SYG 2000</td>
<td>3</td>
<td>Selective</td>
<td>3</td>
</tr>
<tr>
<td>or ANT 2000</td>
<td>3</td>
<td>CHM 2046</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045C</td>
<td>4</td>
<td>MAC 1105</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>3</td>
<td>MAC I114</td>
<td>3</td>
</tr>
<tr>
<td>SLS 2311*(Preprofessional)</td>
<td>1</td>
<td>BSC 201C</td>
<td>4</td>
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</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>14/15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tbody>
<tr>
<td>CHM 2210</td>
<td>3</td>
<td>CHM 2211</td>
<td>3</td>
</tr>
<tr>
<td>MCB3002C</td>
<td>5</td>
<td>CHM 2211L</td>
<td>2</td>
</tr>
<tr>
<td>MAC 2311* or MAC 2535</td>
<td>4/3</td>
<td>STAT 2023</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2000 or AMH 2010</td>
<td>3</td>
<td>BSC 3403C</td>
<td>4</td>
</tr>
<tr>
<td>or WOH 2012 or HUM 2211</td>
<td>3</td>
<td>EUH 2001 or AMH 2020</td>
<td>3</td>
</tr>
<tr>
<td>or HUM 2230 or WHO 222</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Plan your required 9 summer hours into your course of study

Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>17 hrs</th>
<th>Spring</th>
<th>14/15 hrs</th>
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</thead>
<tbody>
<tr>
<td>PCB 3522</td>
<td>3</td>
<td>PCB 4523</td>
<td>3</td>
</tr>
<tr>
<td>BCH 4053</td>
<td>3</td>
<td>PCB 4239 + PCB 3233L</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2045C* or PHY 2049</td>
<td>4</td>
<td>PHY 2045C* or PHY2049, 2049L</td>
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<tr>
<td>or 2048L</td>
<td>4</td>
<td>BSC 3011C</td>
<td>4</td>
</tr>
<tr>
<td>EUH 2013 or POS 2041</td>
<td>3</td>
<td>Restricted Elective</td>
<td>3/4</td>
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</table>

Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>15/17 hrs</th>
<th>Spring</th>
<th>12/15 hrs</th>
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<tr>
<td>MCB 4414</td>
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<td>Restricted Elective</td>
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<tr>
<td>CGS 1005C</td>
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<tr>
<td>Restricted Elective</td>
<td>3/4</td>
<td>SPC 1016</td>
<td>3</td>
</tr>
<tr>
<td>Acourse from Cultural and Historical Foundations Group 3</td>
<td>3</td>
<td>*recommend SPC 1016</td>
<td></td>
</tr>
</tbody>
</table>

MOTION PICTURE TECHNOLOGY
(See Film)

MUSIC (B.A.)

College of Arts and Sciences
Department of Music, CNH 205A
http://www.cas.ucf.edu/music/
E-mail: music@mail.ucf.edu
Eugene Montague, E-mail: emontagu@mail.ucf.edu, 407-823-1145
Scott Warfield, E-mail: swarfield@mail.ucf.edu, 407-823-1144

Requirements for Admission

- Each student must complete and pass an interview with either a B.A. advisor or the Department Chair.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department.
- Each student must complete a faculty approved capstone project.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor for course

DEGREE REQUIREMENTS
### 1. UCF General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

#### 2. Common Program Prerequisites (20-24 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1111</td>
<td>Music Theory IA</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 112*</td>
<td>Music Theory IB</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUS 1010</td>
<td>Music Forum (four semesters)</td>
<td>0 hrs</td>
</tr>
<tr>
<td>MUS 3701</td>
<td>20th Century Musical Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUS XXXX</td>
<td>Secondary Performance</td>
<td>CPP</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Ensembles</td>
<td>CPP</td>
</tr>
<tr>
<td>MUV 4211</td>
<td>History &amp; Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUV 4212</td>
<td>History &amp; Literature II</td>
<td>GEP</td>
</tr>
</tbody>
</table>

#### 3. Core Requirements (6 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1010</td>
<td>Music Forum</td>
<td>0 hrs</td>
</tr>
<tr>
<td>MUS 3571</td>
<td>20th Century Musical Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUS XXXX</td>
<td>Secondary Performance</td>
<td>CPP</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Ensembles</td>
<td>CPP</td>
</tr>
<tr>
<td>MUV 4211</td>
<td>History &amp; Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUV 4212</td>
<td>History &amp; Literature II</td>
<td>GEP</td>
</tr>
</tbody>
</table>

#### 4. Restricted Electives-Music (12-16 hrs)

Choose from any MUX 3XXX or 4XXX (No more than 6 of these credits can be taken as MUN courses.)

#### 5. Restricted Electives-Non-Music (9 hrs)

Select primarily from upper-level courses, with departmental advisor's approval. Prefer courses within related arts and humanities departments including Art, Digital Media, English, Film, Foreign Languages, History, Philosophy, and Theater.

#### 6. Electives (variable)

Select primarily from upper-level courses. A maximum of six (6) hours may be taken in music. All other hours must be taken outside the department.

#### 7. Minor Ensemble Participation

- If minor ensemble is taken at UCF, the two semester hours of credit must be completed in two separate semesters.
- If minor ensemble credits are transferred to UCF, each remaining hour must be taken in a separate semester.
- Minor ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, and Jazz Lab.

#### 8. Departmental Exit Requirements (3 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 4XXX</td>
<td>Capstone/Senior Thesis Project</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 9. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement.

**Graduation:** Proficiency equivalent to two semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized 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.

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**10. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

**Total Semester Hours Required**

120 hours

**Related Programs:** Music Education, Music (BM), Theatre, Musical Theatre

**Related Minors:** Music, Theatre

**Transfer Notes:**

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

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

- MUT 1111*, MUT 1112*: May use MUT 1121, MUT 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241*, MUT 1242*: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
- MUT 2116*, MUT 2117*: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 2246*, MUT 2247*: May use MUT 2226, MUT 2227, or MUT 2266, MUT 2267, or MUT 2276, MUT 2277.
- MKV 1111, MKV 2121*: May use MKV 1112, MKV 2122 or MKV 1211, MKV 2221

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

**Fall**

- ENC 1101 Composition I
- MUH 2211* req# 1B1-GEP
- MGF 1106* req# 1C1-GEP
- MUS 1010 Music Forum
- MUT 1111* req# 2-CPP
- MUT 112* req# 2-CPP
- MVK 1111 Class Piano I
- MUS 1010 Music Forum

**Spring**

- ENC 1102 Composition II
- MUH 2220* req# 1B2-GEP
- STA 1060C* req# 1C2-GEP
- MUT 1112* req# 2-CPP
- MUT 1212 Music Theory IB
- MVK 2121 Class Piano II
- MUS 1211* req# 2-CPP
- MUS 1010 Music Forum

**Sophomore Year**

**Fall**

- POS 2041* req# 1D1-GEP
- PSC 1121* req# 1E1-GEP
- MUS 1343* req# 2-CPP
- MG 2115 Music Theory IIA
- MVK 3131 Class Piano III
- MVK 3132* req# 2-CPP
- MUS 1010 Music Forum

**Spring**

- POS 2042* req# 1D2-GEP
- PSC 1122* req# 1E2-GEP
- MUS 1344* req# 2-CPP
- MVK 3133 Class Piano IV
- MVK 1212* req# 2-CPP
- MUS 1010 Music Forum

**Junior Year**

**Fall**

- SPC 1600* req# 1A1-GEP
- MUS 4211 History and Lit I
- MUT 3170* req# 4-ResElec

**Spring**

- SPC 1601 History and Lit II
- MUS 4211 History and Lit II
- MUT 3171* req# 4-ResElec

**Graduation Requirements**

- Met by graduation requirement
- 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. 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.

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UCF Degree Programs
MUSIC EDUCATION (B.M.E.)
College of Arts and Sciences
Department of Music, CNH 205A
http://www.cas.ucf.edu/music/
E-mail: music@mail.ucf.edu

Admission Requirements - Music Education-Pending
- Audition. To be accepted into Music Education-Pending, a student must demonstrate advanced proficiency by performing compositions representing a variety of musical periods (baroque, classical, romantic, contemporary).
- Memorization is required for pianists and vocalists.
- Accompanists are provided by special request only.
- Each candidate must bring his/her own audition music.
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions.
- The audition will serve as a placement exam for accepted candidates.
- Demonstrate professional, vocal, and aural skill proficiency in an interview with Music Education faculty.

Admission Requirements
- Music Education (Professional Program) Students who wish to be accepted into the Music Education Professional Program must complete the following requirements:
  - Pass 3 out 5 comprehensive proficiency examinations
  - Have a minimum overall GPA of 2.5 and a grade of “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.
- Must meet the College of Education’s requirements for admission to Internships I and II (see College of Education, Office of Clinical Experiences)
- Pass the Music Education Proficiency (taken during completion of Performance II)

Note: Students who change degree programs and select this major must adopt the most current catalog.

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1842-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      MUH 4212 History and Literature II 3 hrs
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      Select one:
      STA 1060C Basic Statistics Using Excel or
      STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      Select one:
      PSC 1121 Physical Science 3 hrs
      ANT 2511 The Human Species or
      BSC 1005 Biological Principles 3 hrs
   F. Education Courses (9 hrs)
      EDF 2005 Introduction to Education 3 hrs
      Take section designated for Music Education Pending Majors
      EDG 2701 Teaching Diverse Populations 3 hrs
      EME 2040 Intro to Educational Technology 3 hrs
   G. International/Diversity Courses
      GEP

2. Common Program Prerequisites (19 hrs)
   A. Communications (0 hrs)
   B. Humanities (3 hrs)
      PHI 2010 Introduction to Philosophy 3 hrs
      MUH 4212 History and Literature II GEP
   C. Mathematics (3 hrs)
      MAC 1105 College Algebra 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
   D. Social Science/History (0 hrs)
   E. Science (4 hrs)
      Select one:
      STA 1121 Physical Science 3 hrs
      STA 1060C Basic Statistics Using MS Excel or
      STA 2014C Principles of Statistics
   F. Education Courses (9 hrs)
      EDF 2005 Introduction to Education 3 hrs
      Take section designated for Music Education Pending Majors
      EDG 2701 Teaching Diverse Populations 3 hrs
      EME 2040 Intro to Educational Technology 3 hrs
      G. International/Diversity Courses
      GEP

3. Other Program Prerequisites (27 hrs)
   A. Music Education-Pending (36 hrs)
      MUN XXXX Major Ensembles (4 semesters) 4 hrs
      MUS 1011 Music Theory I 2 hrs
      MUS 1012 Music Theory II 2 hrs
      MUS 2116 Music Theory III 2 hrs
      MUS 2247 Ear Training & Sight Singing I 1 hr
      MUS 2248 Ear Training & Sight Singing II 1 hr
      MUS 2249 Ear Training & Sight Singing III 1 hr
      MUS 4211 Class Piano I (or proficiency) 0-1 hr
      MUS 4212 Class Piano II 1 hr
      MUS 4213 Class Piano III 1 hr
      MUS 4214 Class Piano IV 1 hr
      MUS XXXX Performance (4 semesters) 8 hrs

4. Core Requirements (37 hrs)
   A. Music Education-Pending (44 hrs)
      MUN XXXX Major Ensembles (4 semesters) 4 hrs
      MUS 1011 Music Theory I 2 hrs
      MUS 1012 Music Theory II 2 hrs
      MUS 2116 Music Theory III 2 hrs
      MUS 2247 Ear Training & Sight Singing I 1 hr
      MUS 2248 Ear Training & Sight Singing II 1 hr
      MUS 2249 Ear Training & Sight Singing III 1 hr
      MUS 4211 Class Piano I (or proficiency) 0-1 hr
      MUS 4212 Class Piano II 1 hr
      MUS 4213 Class Piano III 1 hr
      MUS 4214 Class Piano IV 1 hr
      MUS XXXX Performance (4 semesters) 8 hrs
5. Special Requirements  (15 hrs)

Complete one program:

Program A - Instrumental
MVV 1111  Class Voice (or proficiency)  0-1 hr
MUG 3302  Instrumental Conduct & Materials  2 hrs
MUE 4480C Marching Band Techniques  1 hr
ESE 4943 Internship II - Secondary  12 hrs

Program B Choral
MUG 3202  Choral Conduct & Materials  2 hrs
MUS 1201  European Diction  1 hr
ESE 4943 Internship II - Secondary  12 hrs

Program C - Elementary School
MVV 1111  Class Voice (or proficiency)  0-3 hrs
MUE 1291  Classroom Instruments  1 hr
MUE 3930  Special Topics in Elementary School Music  2 hrs
ESE 4943 Internship II - Secondary  12 hrs

6. Internships

Internship I: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST and have passed 4 of the 5 music proficiency/comprehensive exams (including the Music Education) before enrolling in Internship I. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator. During the semester, students spend two full days per week (Tuesday and Thursday) in the field with half the time in an Elementary setting and half in a Secondary school setting. Components of the experience include directed observation, collaborative planning, guided participation, and collaborative evaluation. Students are expected to provide their own transportation to assigned locations.

Internship II: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST; successfully completed Internship I; and have passed all proficiency/comprehensive exams before enrolling in Internship II. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator. During the semester, students spend two full days per week in the field with half the time in an Elementary setting and half in a Secondary school setting. Components of the experience include directed observation, collaborative planning, guided participation, and collaborative evaluation. Students are expected to provide their own transportation to assigned locations.

7. Special Non - Course Requirements

Note: Contact the Music Education Advisor for details

Music Education Proficiency Exam - take during the completion of the fourth semester of study, or after completing Performance II, Ensemble Participation

Ensemble Participation

Selected from University Chorus, Symphony Orchestra, Concert Band, Marching Band, and Wind Ensemble. Four hours of Jazz Lab may be used as a Major Ensemble credit

Ensemble assignment is by the Ensemble directors

Transfer students must take Major Ensemble during each of their remaining semesters, except when enrolled in Internship II

Native UCF students must take each Ensemble credit in a separate semester

Students taking a Performance course must concurrently take an appropriate major ensemble if accepted

Recitals

- Students must complete a minimum of 4 proficiency examinations prior to auditioning for a faculty-approved public recital (optional for students in the Elementary School Music Specialization) Portfolio

- Maintain a Professional Portfolio. The portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

CMENC Membership

- Active participation in CMENC is expected

Music Education Forums

- Attendance at all Music Education Forums (except during Internship I and II) is expected

Advising

- Consult with the music education advisor for course selection

Public School Partnerships

- Students are expected to be in public schools on a regular basis. Students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral, instrumental) before taking Internship I.

8. Departmental Exit Requirements

- Pass the Professional Education and Subject Area subtests of the Florida Teacher Certification Examination.

- A minimum GPA of 2.5 is required in all courses within the major.

- A grade of “C” (2.0) or better in each music course.

- A grade of “B” (3.0) or better in each performance, education, and music education course.

- Computer competency is met through EME 2040.

- Departmental Residency Requirement: at least 25 hours must be taken from the UCF Music Department. In addition, music education students must complete their last two semesters of required performance, recital, and Internship II while attending UCF.

9. Foreign Language Requirements  (0-8 hrs)

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

Graduation: None

10. University Minimum Exit Requirements

- A 2.0 UCF GPA

- 60 semester hours earned after CLEP awarded

- 48 semester hours of upper division credit completed

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

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

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

- A maximum of 45 hours of extension, correspondence, CLEP, credit by Exam, and Armed Forces credits admitted

11. Total Semester Hours Required  134 hours

Related Programs: Music, Music (BFA), Theatre

Related Minors: Music, Theatre

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses

- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major

- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revi-


**UCF Degree Programs**

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods.
- Memorization is required for pianists and vocalists.
- Accompanists are provided by special request only.
- Each candidate must bring his/her own audition music.
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions.
- The audition will serve as a placement examination for accepted candidates.
- In addition, composition students must submit a portfolio of compositions representing works in small and/or large forms.
- The audition and examination scores will serve as a placement examination for accepted candidates.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses.
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department.
- Performance and composition students must present two faculty-approved public recitals.
- Students should consult with a departmental advisor for course selection.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program
   (see General Education program for detailed information)

   **A. Communication Foundations**
   - Select SPC 1600
   - 9 hrs

   **B. Cultural and Historical Foundations**
   - Select one course from 1.B.1 list
   - 3 hrs
   - Select MUH 4212 History and Literature II
   - 3 hrs

   **2. Common Program Prerequisites**
   (24 hrs)
   - MUT 1111* Music Theory IA
   - 2 hrs
   - MUT 1112* Music Theory IB
   - 2 hrs
   - MUT 1241* Ear Training & Sight Singing IA
   - 1 hr
   - MUT 1242* Ear Training & Sight Singing IB
   - 1 hr
   - MUT 2116* Music Theory IIA
   - 2 hrs
   - MUT 2117* Music Theory IIIB
   - 2 hrs
   - MUT 2246* Ear Training & Sight Singing IIA
   - 1 hr
   - MUT 2247* Ear Training & Sight Singing IIB
   - 1 hr
   - MUN XXXX Major Ensemble (four semesters)
   - 4 hrs
   - (Piano students take MUN 3453, guitar students take MUN 3483)

   **MUS/MVM/MVP/MVS/MVMVW Performance or composition (four including two semesters of Level IV)**
   - 8 hrs
   - MUN XXXX Major Ensembles
   - 2 hrs
   - (Piano students take MUN 3453, guitar students take MUN 3483)
   - MUG 3104 Basic Conducting
   - 2 hrs
   - MUH 4211 History & Literature I
   - 3 hrs
   - MUH 4212 History & Literature II
   - GE

   **3. Core Requirements**
   (18 hrs)
   - MVK 1111-2121* Class Piano I-II
   - 0-2 hrs

   **4. Specialty Requirements**
   (24 hrs)
   - Piano
   - MUL 3400 Piano Literature I
   - 2 hrs
   - MUL 3401 Piano Literature II
   - 2 hrs
   - MVK 4640 Piano Pedagogy I
   - 1 hr
   - MVK 4641 Piano Pedagogy II
   - 1 hr
   - Ensembles
   - Major Not Required
   - 0 hrs
   - Minor-MUN 3453 Piano Ensemble
   - 2 hrs
   - Restricted Electives
   - 16 hrs

   **Guitar**
   - MUL 3432 String Literature
   - 2 hrs
   - MVK 4640 Voice Pedagogy I
   - 1 hr
   - MVK 4641 Voice Pedagogy II
   - 1 hr
   - Ensembles
   - Major Not Required
   - 0 hrs
   - Minor-MUN 3438 String Ensemble
   - 2 hrs
   - Restricted Electives
   - 18 hrs

   **Voice**
   - FRC 1005 French Diction
   - 1 hr
   - GER 1005 German Diction
   - 1 hr
   - ITA 1005 Italian Diction
   - 1 hr
   - MVK 4640 Voice Pedagogy I
   - 1 hr
   - MVK 4641 Voice Pedagogy II
   - 1 hr
   - MUL 3603 Amer. English Song Literature
   - 1 hr
   - MUL 3604 German Song Literature
   - 1 hr
   - MUL 3605 French Song Literature
   - 1 hr
   - Ensembles
   - Major-MUN 3313 University Chorus
   - 2 hrs
   - Minor-MUN XXXX
   - 4 hrs
   - Restricted Electives
   - 10 hrs

   **Woodwinds**
   - MUN XXXX Major Ensemble
   - 2 hrs
   - MUN XXXX Minor Ensemble
   - 2 hrs
   - MVK 3441 Woodwind Literature
   - 2 hrs
   - MVK 3630 Woodwind Pedagogy
   - 2 hrs
   - Restricted Electives
   - 14 hrs

   **Brass**
   - MUN XXXX Major Ensemble
   - 2 hrs
   - MUN XXXX Minor Ensemble
   - 2 hrs
   - MVK 3442 Brass Literature
   - 2 hrs
   - MVK 3442 Brass Pedagogy
   - 2 hrs
   - MVK 3630 Brass Pedagogy
   - 2 hrs
   - Restricted Electives
   - 14 hrs

   **Percussion**
   - MUN XXXX Major Ensemble
   - 2 hrs
   - MUN XXXX Minor Ensemble
   - 2 hrs

   *Note: Students must take a Natural Science class with the lab and select a course that fulfills the GEP requirement.

   *See Transfer Notes for possible substitutes.

   **2005-2006 Undergraduate Catalog**
### UCF Degree Programs

#### NURSING (B.S.N.)

(A for individuals who are not Registered Nurses)

**College of Health and Public Affairs**

HPA1 220, 407-823-2744

http://www.cohpa.ucf.edu/nursing/

Director: Jean Leuner

Undergraduate Coordinator: Patricia Leli

E-mail: ufnurse@mail.ucf.edu

**Admission Requirements**

Acceptance to the university does not constitute admission to the upper division nursing program.

- **Separate application** to the *limited access program* must be made directly to the School of Nursing prior to February 1 of the year admission is sought for the Orlando Campus and June 1 for the prior year for January admission on the Brevard 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 pursuing a BS degree must meet the University foreign language admission requirements for graduation.
- Two prerequisite science courses must be completed by the program application deadline.
- The School of Nursing has a demanding curriculum. The classes are work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one year post high school prior to applying to the basic nursing program. Students with concerns or questions should contact the nursing office for an appointment with a basic faculty advisor.
- All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of "C" (2.0) or better.
- Early acceptance may be offered to First-Time-in-College (FTIC)

**Limiting Access**

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

**Total Semester Hours Required**

120 hours

**Related Programs:** Music Education, Music (BA), Theatre

**Related Minors:** Music, Theatre

**Transfer Notes:**

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

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

- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262 or MUT 1271, 1272.
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277.
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

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students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECP). For specific information about early acceptance, contact the School of Nursing.

Graduates are eligible to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing, Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, and should be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours

Any variation from the stated prerequisites must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office.

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   - 9 hrs

B. Cultural Historical Foundations
   - 9 hrs

C. Mathematical Foundations
   - 6 hrs

MAC 1105

Select STA 2014C

D. Social Foundations
   - 6 hrs

Select both SYG 2000 and PSY 2012*

Select ECO 2013 or ECO 2023 or POS 2041

E. Science Foundations:**
   - 6 hrs

Select BSC 2010C

Select CHM 1032 (and lab)

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (22 hrs)

PSY 2012 General Psychology** GEP

SYG 2000 Sociology** 3 hrs

MCB 2004C Health Microbiology 4 hrs

CHM 1032/L General Chemistry and lab** GEP

ZOO 3733C Human Anatomy 4 hrs

PCB 3703C Human Physiology* 4 hrs

STA 2014C or 2023 Principles of Statistics** GEP

SWO 3104 Assessing Human Development or DEP 2004 Developmental Psychology 3 hrs

HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six to eight total credits.

**Also meets General Education Requirements. The first semester of a two semes- ter general chemistry course does not meet requirement.

3. Core Requirements (63 hrs)

NUR 3026L Therapeutic Interv. for Health Prof. 1 hr

NUR 3065 Health Assessment 3 hrs

NUR 3319 Nursing Research 3 hrs

NUR 3225 Promoting Physical & Mental Health 5 hrs

NUR 3235L Clin Prac in Prom Phys/Mental Health 4 hrs

NUR 3616 Promoting Healthy Families 3 hrs

NUR 3616L Clinical Pract in Promoting Healthy Fam 3 hrs

NUR 3617 Promoting Healthy Communities 3 hrs

NUR 3825 Role of the Professional Nurse 2 hrs

NUR 3128 Pathophysiology & Pharmacology 5 hrs

NUR 4525 Nursing Intervention in Mental Illness 2 hrs

NUR 4525L Clinical Practice w/ Mentally Ill Client 1 hr

NUR 4636 Community as the Continuum of Care 3 hrs

NUR 4636L Clinical Pract in Comm.- Orient Nrsng 2 hrs

NUR 4745 Nursing Care of Clients w/ Acute Ill. 4 hrs

NUR 4745L Clinical Practice in Acute Illness 4 hrs

NUR 4827 Leadership & Management Principles 3 hrs

NUR 4945L Directed Nursing Practice 4 hrs

NUR 4835 Role Transition 2 hrs

NUR 4837 Health Care Issues, Policy, & Econ 3 hrs

NUR 4900X Nursing Elective 3 hrs

Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)

Nursing Elective: Any School of Nursing Elective approved by advisor

*Some NUR 4945L placements require an elective to be taken concurrently.

5. Departmental Continuation and Exit Requirements

Completion of all courses in major with a grade of “C” (2.0) or better

UCF GPA of 2.5 or above

School of Nursing GPA of 2.5 or above

6. Electives

None

7. Foreign Language Requirements

(0-8 hrs)

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

Graduation:

none

8. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

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

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

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

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

Total Semester Hours Required 121 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Psychology, Health Sciences, Social Work Administration

Transfer Notes: Examples of Community College Equivalent Courses -

Prerequisites

General Psychology (PSY X012) or any General Psychology course 3 hrs

General Sociology (SYG 2000) or any Intro to Sociology course 3 hrs

Statistics (STA 2014C or 2023) or any Statistics course 3 hrs

General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)* 4 hrs

Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086) 6-8 hrs

General Microbiology (MCB 3020C) (MCB X010C) w/lab or any Microbiology course w/lab 4 hrs

Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course 3 hrs

Human Nutrition with therapeutic nutrition focus 3 hrs

*The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors

Honors Option Requires:

Completion of a three credit directed readings course

Completion of a three credit thesis course

Open to students with a minimum 3.5 GPA in Nursing

Minimum cumulative UCF 3.2 GPA

Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen
Freshman Year

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYG 2000</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3</td>
</tr>
<tr>
<td>MAC 110S</td>
<td>3</td>
</tr>
<tr>
<td>BSC 2010C</td>
<td>4</td>
</tr>
<tr>
<td>PSY 2000</td>
<td>3</td>
</tr>
</tbody>
</table>
| Concurrent Course. **Some Directed Nursing Practice (NUR 4945L) placements require an elective as a prerequisite.** SPC 1600 required. Other: NUR 4827 3, NUR 4945L 4, NUR 4525L 1, NUR 4837 3, NUR 4636L 2, NUR 4745L 4, NUR 4636 3.

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 1032/L</td>
<td>5/1</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>3</td>
</tr>
<tr>
<td>STA 2104C or STA 2023</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>4</td>
</tr>
<tr>
<td>PSY 2000</td>
<td>3</td>
</tr>
</tbody>
</table>
| Sophomore Year

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041 or ECO 2013 or ECO 2023</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2000 or HUM 2211</td>
<td>3</td>
</tr>
<tr>
<td>or AMH 2010 or WOH 2012</td>
<td>3</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>4</td>
</tr>
<tr>
<td>SOW 3104 or DEP 2004</td>
<td>3</td>
</tr>
<tr>
<td>HUN 3011</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH 2001 or HUM 2230</td>
<td>3</td>
</tr>
<tr>
<td>or AMH 2020 or WOH 2022</td>
<td>3</td>
</tr>
<tr>
<td>MCB 2004C</td>
<td>4</td>
</tr>
<tr>
<td>*SPC 1600</td>
<td>3</td>
</tr>
<tr>
<td>(One Course)</td>
<td>3</td>
</tr>
</tbody>
</table>
| Junior Year

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3825</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3026L</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3617</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3616</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3616L</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3128</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3235</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3235L</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3201C</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>3</td>
</tr>
</tbody>
</table>
| Summer A

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3165</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3026 Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Senior Year

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 4745</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4745L</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4525</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4525L</td>
<td>1</td>
</tr>
<tr>
<td>NUR 4827</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 4835</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4636</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4837</td>
<td>3</td>
</tr>
<tr>
<td><strong>NUR 4945L</strong></td>
<td>4</td>
</tr>
</tbody>
</table>

Other:
- *SPC 1600 required
- **Some Directed Nursing Practice (NUR 4945L) placements require an elective as a prerequisite course.**

NURSING (B.S.N.)

B. RN TO BSN PROGRAM

(Completion program for individuals who are licensed RN’s)

College of Health and Public Affairs

HPA1 220, 407-823-2744

http://www.cohpa.ucf.edu/nursing/

RN to BSN Coordinator: Linda Hennig

E-mail: ucfnurse@mail.ucf.edu

This program is also currently 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 School of Nursing. All applicants must have:

- Admission to UCF undergraduate program
- Graduation from an approved or accredited associate degree or diploma nursing program
- Current Licensure as an RN (or eligible)
- Progress toward the UCF general education requirements, an AA degree from a Florida Community College, or eligible for the Statewide Articulated AS-BSN Program (see AS to BS)
- Completion of all sections of CLAST (or Exempt)
- A minimum overall GPA of 2.5
- Completion of program prerequisite courses with at least a grade of “C” (2.0) or better

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education Program requirements
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the 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 hrs)

A. Communication Foundations
- 9 hrs
B. Cultural Historical Foundations
- 9 hrs
C. Mathematical Foundations
- 6 hrs
D. Social Foundations
- 6 hrs
E. Science Foundations
- 6 hrs

2. Common Program Prerequisites (21 hrs)

- PSY 2012 General Psychology** GEP
- SYG 2000 Sociology** 3 hrs
- MCB 2004C Health Microbiology 4 hrs
- CHM 1032L General Chemistry and lab** GEP
- ZOO 3733C Human Anatomy* 4 hrs
- PCB 3703C Human Physiology 4 hrs
- STA 2014C or 2023Principles of Statistics** GEP
- SOW 3104 Assessing Human Development or 3 hrs
- DEP 2004 Developmental Psychology 3 hrs
- HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.
**Also meets GeneralEducation Requirements;

Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core Requirements (55 hrs)

- NUR 3086 Transitional Concepts in Nursing I 3 hrs
- NUR 3065 Health Assessment 3 hrs
- NUR 3165 Nursing Research/Critical Inquiry 3 hrs
- NUR 4084 Transitional Concepts in Nursing II 3 hrs
- NUR 4636 Community as Continuum of Care 3 hrs
- NUR 4636L Clin Pract in Comm-Oriented Nursing 2 hrs
- NUR 4827 Leadership and Management Principles 3 hrs
- NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
- NUR 4812C Practicum & Role Development for RNs 4 hrs

4. Upper Division Restricted Elective (3 hrs)

- NUR XXXX Any Nursing Elective 3 hrs

5. Departmental Exit Requirements

Completion of all courses in major with a grade of “C” (2.0) or better

- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives

- none

7. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in res-
UCF Degree Programs

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

Total Semester Hours Required 120 hours

Related Programs: Health Services Administration, Social Work, All health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study

Semester I
NUR3009 3  NUR 3165 3
NUR 3065 2  NUR 4827 3
NUR 3065L 1 

Semester II
NUR XXXX (elective) 3

Semester III
NUR 4084 3
NUR XXXX (elective) 3

Semester IV
NUR 4636 3  NUR 4837 3
NUR 4636L 2  NUR 4812C 4

*Elective may be taken at any point.

Progression requirements:
- Prior to NUR 3805: RN status or eligible to take NCLEX.
- Prior to NUR 3165: Complete NUR 3805 and Statistics course with grade of “C” (2.0) or better.

Prior to NUR 4084:
- Be admitted to the nursing program
- Complete general education requirements or A.A. from a Florida state community college or university (SUS)
- Complete CLAST (or exempt)
- Complete Foreign language admission requirement

Other
Courses offered in Orlando and at regional campuses of Daytona, Cocoa, and Leesburg.
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/

NURSING ACCELERATED SECOND DEGREE E. BACHELOR OF SCIENCE IN NURSING (BSN) OPTION
(For individuals who are not Registered Nurses but who hold a baccalaureate or higher degree from a regionally accredited college or university)

College of Health and Public Affairs
HPA 220, 407-823-2744
E-mail: ucfnurse@mail.ucf.edu
Director: Jean Leuner
Undergraduate Coordinator: Patricia Leli

Admission Requirements
Limited Access
Acceptance to the university does not constitute admission to the upper division nursing program.

- Separate application to the limited access accelerated second degree bachelor of science in nursing (BSN) option must be made directly to the School of Nursing prior to January 15 of the year admission is sought
- Application to the University must also be submitted by the program deadline
- Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.
- Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the Registrar’s Office. These students complete the “Readmission Application” form
- Students must receive a baccalaureate or higher degree from a regionally accredited college or university prior to the start of the program
- Two science prerequisite courses must be completed prior to application to the program
- All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of “C” (2.0) or better
- All applicants must complete an accelerated second degree program interview in association with a mandatory information session.
- Graduates are eligible to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing and the Commission of Collegiate Nursing Education and approved by the Florida State Board of Nursing

Nursing Accelerated Second Degree Program begins in Summer Semester.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements that cannot be answered by college advisors
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program
- UCF Residency requirement: 30 hours (if applicable)
- Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office

1. UCF General Education Program NA

2. Common Program Prerequisites (31 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SYG 2000</td>
<td>Sociology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MCB 2004C</td>
<td>Health Microbiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHEM 1032/L</td>
<td>General Chemistry and Lab*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy**</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology**</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2014C or 2023</td>
<td>Principles of Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 3104</td>
<td>Assessing Human Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>DEP 2004</td>
<td>Developmental Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HUN 3011</td>
<td>Human Nutrition</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
* The first semester of a two semester general chemistry course does not meet requirement.
** May take Anatomy and Physiology sequence of six-eight total credits.

3. Core Requirements (53 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3026L</td>
<td>Thera Interv. For Health Prof.</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>Health Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3167</td>
<td>Accel Nursing Research Sem</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 3235</td>
<td>Promoting Physical &amp; Mental Health</td>
<td>5 hrs</td>
</tr>
<tr>
<td>NUR 3235L</td>
<td>Clin Pract in Prom Phys/Mental Health</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 3627</td>
<td>Clin Hlth Fam and Comm</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3627L</td>
<td>Accelerated Clin Hlth Fam and Comm</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 3825</td>
<td>Role of the Professional Nurse</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 3128</td>
<td>Pathophysiology &amp; Pharmacology</td>
<td>5 hrs</td>
</tr>
<tr>
<td>NUR 4525</td>
<td>Clinical Practice I</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 4525L</td>
<td>Clinical Practice w/ Mentally Ill Client</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 4639</td>
<td>Accel Comm Continuum</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>Clinical Pract in Comm.-Orient Nurs</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4745</td>
<td>Nursing Care of Clients w/ Acute Ill</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4745L</td>
<td>Clinical Practice in Acute Ill</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4839</td>
<td>Accel Trans Leader</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4945L</td>
<td>Directed Nursing Practice</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4XXX</td>
<td>Nursing Elective</td>
<td>3 hrs **</td>
</tr>
</tbody>
</table>

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.
Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)
Nursing Elective:
May not be required. However, some NUR 4945L placements do require an elective be taken concurrently.

5. Department Continuation and Exit Requirements
Completion of all courses in major with a grade of "C" (2.0) or better
- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives
None

7. Foreign Language requirements
   Admission: none
   Graduation: none

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF

Total Semester Hours Required for 2nd Degree BSN 53 hrs

Related Programs
Health Services Administration, Social Work, all health programs

Related Minors
Aging Studies, Psychology, Health Sciences, Health Services Administration

Transfer Notes:
Examples of Community College Equivalent Courses for

Prerequisites
General Psychology (PSY X012) or any General Psychology course 3
General Sociology (SYG 2000) or any Intro to Sociology course 3
Statistics (STA 2014C or 2023) or any Statistics course 3
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*
Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086)
General Microbiology (MCB 3020C) (MCB X010C) w/lab 4
or any Microbiology course w/lab
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course
Human Nutrition with Therapeutic Nutrition course 3

* The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of "C" (2.0) or better is required in all prerequisite courses.

Honors
University Honors and Honors in the Major Available

Tentative Course Schedule

First Semester

<table>
<thead>
<tr>
<th>Summer 13 hrs</th>
<th>Fall 14 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3625 2</td>
<td>NUR 3128 5</td>
</tr>
<tr>
<td>NUR 3085 3</td>
<td>NUR 3235 5</td>
</tr>
<tr>
<td>NUR 3020L 1</td>
<td>NUR 3235L 4</td>
</tr>
<tr>
<td>NUR 3637 5</td>
<td></td>
</tr>
<tr>
<td>NUR 3637L 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring 15 hrs</th>
<th>Summer 11 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 4745 4</td>
<td>NUR 4829 3</td>
</tr>
<tr>
<td>NUR 4745L 4</td>
<td>NUR 4639 2</td>
</tr>
<tr>
<td>NUR 4525 2</td>
<td>NUR 4638L 2</td>
</tr>
<tr>
<td>NUR 4525L 1</td>
<td>NUR 4945L 4</td>
</tr>
<tr>
<td>NUR 3167 or 1</td>
<td>NUR 3XXX Elective** 3</td>
</tr>
<tr>
<td>*NUR 3165 3</td>
<td></td>
</tr>
</tbody>
</table>

Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.

NURSING ACCELERATED
C. RN TO MSN OPTION

NURSING (B.S.N.)
D. AS TO BSN TRACK

Note: For detailed information about this program, see description in the AS to BS Program section.

ORGANIZATIONAL COMMUNICATION (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 258
407-823-2852
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
Advising: See department.

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 can be used in this major
- Students should consult with a departmental advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     Select ENC 1101 & 1102 Composition 6 hrs
     Select SPC 1600 Fund Oral Communication 3 hrs
   - B. Cultural and Historical Foundations
     Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
     Select STA 2014C Principles of Statistics 3 hrs
   - C. Mathematical Foundations
     Select ENC 1101 & 1102 Composition 6 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (0 hrs)
   XXX XXXX 18 hrs of any GEP courses GEP

3. Core Requirements (21 hrs)
   - STA 2014C Principles of Statistics GEP
   - COM 3011C Communication & Human Relations 3 hrs
   - COM 3311 Communication Research Methods 3 hrs
   - PUR 4110C Public Relations Publications 3 hrs
   - ENC 3250 Professional Writing 3 hrs
   - SPC 3425C Group Interaction & Decision Making 3 hrs
   - COM 3110 Business and Professional Communication 3 hrs
   - COM 3120 Organizational Communication 3 hrs

4. Restricted Electives (9 hrs)
   Select from the following list:
   - SPC 3513 Argumentation and Debate
   - COM 3013 Communication and the Family
   - COM 4014 Gender Issues in Communication
   - COM 4461 Intercultural Communication
   - COM 4462 Conflict Management
   - COM 4941 Internship

5. External Restricted Electives (6 hrs)

---

Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.
UCF Degree Programs

A minimum of six upper division credit hours selected from courses in Business Law, Management, Marketing, or Hospitality Management.

6. School Exit Requirements
- Achieve a "C" (2.0) or better GPA in required UCF Communication courses.
- To avoid delaying graduation, you must request a review of requirements before registering for your last term.
- Computer Competency met by a Computer Science course or by departmental assessment.

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 advisors approval. May be taken outside 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 hours

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

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>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEF</td>
<td>EUL 2000* req# 1B1-GEF</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>STA 2014C Prin of Statistics</td>
</tr>
<tr>
<td>SPN 1120* req# Lang/Elec</td>
<td>Elective* Check restrictions</td>
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<tr>
<td>SPN 1121* req# Lang/Elec</td>
<td>SPN 1121* req# Lang/Elec</td>
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Sophomore Year

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<thead>
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<th>Fall</th>
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<tbody>
<tr>
<td>ANT 2000* req# 1D2-GEF</td>
<td>ARH 2050* req# 1B3-GEF</td>
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<tr>
<td>BSC 1005* req# 1E2-GEF</td>
<td>MUL 2010* req# 1B2-GEF</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>POS 2041* req# 1D1-GEF</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
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Junior Year

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<th>Fall</th>
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<tbody>
<tr>
<td>COM 3011C Com Reln</td>
<td>COM 3110 Bus Prof Com</td>
</tr>
<tr>
<td>COM 3311 Com Res Methods</td>
<td>SPC 3425C Innr Decis Mk</td>
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<tr>
<td>ENC 2250 Prof Writing</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>PUR 4110C Public Reln Pub</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
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Senior Year

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<th>Fall</th>
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<tr>
<td>COM 3120 Org Communication</td>
<td>COM 4462* req# 4-ResElec</td>
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<tr>
<td>COM 4463* req# 4-ResElec</td>
<td>HFT 3600* req# 5-Ext RE</td>
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<td>Elective* Check restrictions</td>
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PHILOSOPHY (B.A.)
College of Arts and Sciences
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Don Jones, 407-823-2273; Fax: 407-823-6658

Admission Requirements
Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      Select HUM 2211 Humanistic Traditions I 3 hrs
      Select HUM 2230 Humanistic Traditions II 3 hrs
      Select PHI 2101 Intro to Philosophy 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 yrs
      Prefer STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites
   none

3. Core requirements* (27 hrs)
   a. Core
      Select HUM 2211 Humanistic Traditions I GEP 3 hrs
      Select HUM 2230 Humanistic Traditions II GEP 3 hrs
      Select PHI 2101 Intro to Philosophy GEP 3 hrs
   b. Philosophical Foundations:
      Select 12 hours, including at least three hours from each group:
      Reasoning
      PHI 2101 Philosophical Reasoning 3 hrs
      PHI 2101 Formal Logic I 3 hrs
      Ethics
      PHI 3670 Ethical Theory 3 hrs
      Knowledge
      PHI 3320 Philosophy of Mind 3 hrs
      PHI 4341 Ways of Knowing 3 hrs
      PHI 4300 Theories of Knowledge 3 hrs
      PHI 4500 Metaphysics 3 hrs
   c. Research Methods
      PHI 3083 Research Methods in Philosophy 3 hrs
   d. Disciplinary and Interdisciplinary Knowing (6 hrs)
      Select two courses:
      PHM 3401 Philosophy of Law 3 hrs
      PHI 3700 Philosophy of Religion 3 hrs
      PHI 4400 Philosophy of Science 3 hrs
      PHI 4420 Philosophy of Social Science 3 hrs
      PHI 3451 Philosophy of Psychology 3 hrs
      PHI 3800 Aesthetics 3 hrs
   e. Applications
      Select three courses:
      HUM 4330 Performance Theory 3 hrs
      PHI 3626 Ethics in Science &Technology 3 hrs
      PHI 3022 Sexuality, Gender & Philosophy 3 hrs
      PHI 3033 Philosophy, Religion, and the Environment 3 hrs

Prefer STA 1060C Statistics Using Excel (may substitute a higher level math) 3 hrs
Select PHI 2010 Intro to Philosophy 3 hrs
Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
Select STA 1060C Statistics Using Excel 3 hrs
Select PHI 3670 Ethical Theory 3 hrs
Select PHI 3320 Philosophy of Mind 3 hrs
Select PHI 4341 Ways of Knowing 3 hrs
Select PHI 4300 Theories of Knowledge 3 hrs
Select PHI 4500 Metaphysics 3 hrs
Select PHI 3083 Research Methods in Philosophy 3 hrs
Select 12 hours, including at least three hours from each group:
Select PHI 2101 Philosophical Reasoning 3 hrs
Select PHI 2101 Formal Logic I 3 hrs
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Complete the General Education Program, the Gordon Rule, the "A maximum of 45 hours of extension, correspondence, CLEP, 30 of the last 36 hours of course work must be completed in res- sor's approval. May be outside the department.

Select primarily from upper level courses, with departmental advi- proposed graduate interest.

Majors who are contemplating graduate school should complete two nations for foreign languages may be used to meet the requirement. Languages and Literatures or Judaic Studies.  Standardized exami- Graduation:

Admission:

Met by graduation requirement.

Upper-division electives, internship credit, and course substitu-

Successful completion and oral defense of Honors thesis

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

Departmental Exit Requirements

Either PHI 4970H: Honors Thesis (3 hrs) or PHI 4938 Senior Research Seminar.

Computer Competency met by PHI 4970H, PHI 4951, or by STA 1060C.

To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

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 exami-

Related Programs: Humanities, Humanities - Religious Studies Track

Related Minors: Cognitive Sciences, Environmental Studies, Humanities, Philosophy, Religious Studies, Women's Studies

Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all require-

Freshman Year

Sophomore Year

Junior Year

Senior Year

PHOTOGRAPHY (B.S.)

College of Arts and Sciences

E-mail: ls@mail.ucf.edu

Advisors: Karen Cox (UCF-Orlando), 407-823-0144; Steve Spencer (UCF-Daytona), 386-506-4093

Liberal Studies Advising Team, Elliot Vittes, 407-823-0144

The Photography B.S. program is a joint program between the University of Central Florida and Daytona Beach Community College.

Admission Requirements

Completion of an A.S. in Photography 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 substitu-

Students must earn at least a "C" in each required course and maintain an overall GPA of at least 2.0

Degree 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 res-

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

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

Total Semester Hours Required

120 hours

UCF Degree Programs
UCF Degree Programs

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
   A year sequence in AMH, EUH, HUM, or WOH 6 hrs
   ARH 2051 History and Criticism of Art II AS

C. Mathematical Foundations
   MAC 1105 College Algebra or MGF 2106 College Mathematics or MGF 2107 Mathematics for Liberal Arts
   Computer Science or Statistics 3 hrs

D. Social Foundations
   Political Science or Economics 3 hrs
   Psychology or Sociology AS

E. Science Foundation
   Physical Science 3 hrs
   Life Science 3 hrs

2. Common Program Prerequisites (0 hrs)

(Included in A.S. or B.S. requirements.)

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 Photojournalism I BS

3. AS Required Courses: (49 hrs)

(Completed as in the A.S. degree program in Photography, 2002-2003 catalog. Students graduating under different catalogs may substitute equivalent courses)

CGS 1570 Introduction to Computer Applications 1 hr
GRA 1271 Principles of Design and Color 3 hrs
GRA 1100 Computer Graphics Fundamentals 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
PGY 2000 History and Aesthetics of Photography 3 hrs
PGY 2107 Large Format Photography 4 hrs
PGY 2215 Studio Lighting 4 hrs
PGY 2216 Location Photography 4 hrs
PGY 2655 Applied Photography 4 hrs

4. Upper Division Required Courses (39 hrs)

PGY 3xxx Contemporary Photography 3 hrs
ARH 3711 History of Photography II 3 hrs
PGY 3xxx Image, Culture, and Society 3 hrs
CRW 3xx Creative Writing for Non-Majors 3 hrs
PGY 3xxx Digital Imagery for Photography 3 hrs
PGY 3610C Photojournalism I 3 hrs
PGY 3620C Photojournalism II 3 hrs
PGY 4xxx Photography Workshop/Project 3 hrs
PGY 4xxx Advanced Illustrative Photography 3 hrs
PGY 4xxx Photography Thesis 3 hrs
PGY 3xxx The Professional Environment 3 hrs
PGY 3xxx Photographic Lighting Techniques 3 hrs
PGY 3xxx Photographic Exhibition and Display 3 hrs

5. Upper Division Restricted Electives (3 hrs)

Select one of the following courses.

PGY 3xxx Alternative Processes 3 hrs
PGY 3xxx Photography and Web Design 3 hrs
PGY 3xxx Videography 3 hrs
PLA xxx Law and the Visual Arts 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 residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 127 hours

Community College Transfer Notes

- Students transferring from any Florida public institution with an A.A. degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Courses taken at community colleges do not substitute for Upper Division courses.
- 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/~ucfphyed/

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).
- Complete prerequisite courses

Degree Requirements:

- Due to recent changes in Florida teacher certification requirements for Physical Education, revisions to program requirements are expected. Students should check with a program advisor before registering for upper division (3/4XXX) courses.

1. UCF General Education Program (37 hrs)

A. Communication Foundations
   ENC 1101 Composition I (9 hrs)
   ENC 1102 Composition II 3 hrs
   SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundations
   AMH 2020 U.S. History 1877-Present 3 hrs
   PHI 2010 Introduction to Philosophy 3 hrs

C. Mathematical Foundations
   MGF 1106 Finite Mathematics 3 hrs
   STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics 3 hrs

D. Social Foundations
   PSC 1121 Physical Science 3 hrs
   E. Science Foundations
   PSY 2012 General Psychology 3 hrs
   PSC 1121 Physical Science 3 hrs
   GRA 1741* May substitute GRA 2111C
   GRA 1800* May substitute GRA 2140C

2. Common Program Prerequisites (25 hrs)
Satisfactory completion of Internship II requires the student to:

- See additional requirements in College of Education, Office of Clinical Experiences

Internship II (PET 4943) (12 hrs)

- All methods/specialization courses must be completed with a letter grade of "C-" or better before registering for Internship II
- See additional requirements in College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with the State Board of Education Rule 6A-5.065

7. Foreign Language Requirements (0-8 hrs)

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

8. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

9. University Minimum Exit Requirements

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

10. Total Semester Hours Required 125 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Certification and Endorsement

K-12 Certification (Required by Florida Department of Education) (6 hrs)

PET 3785 Coaching Theory
PET 4550 Fitness Assessment and Exercise

Coaching Endorsement (Optional) (6 hrs)

Select one of the following courses:

PET 3785 Coaching Theory
PET 2624 Coaching Basketball
PEO3324 Coaching Volleyball
PEO 3664 Coaching Football

12. Recommended Sequence of Program Courses:

Freshman Year

Fall (13 hrs) Spring (15 hrs)

BSC 2010C 4 hrs EDG 2701 3 hrs
EDF 2005 3 hrs ENC 1102 3 hrs
ENC 1101 3 hrs MAC 1105 3 hrs
MGF 1106 3 hrs Phil 2010 3 hrs
PSC 1121 3 hrs

Summer (6 hrs)

EME 2040 3 hrs
PDE 2041 3 hrs

Sophomore Year

Fall (13 hrs) Spring (15 hrs)

AMH 2010 3 hrs AMH 2020 3 hrs
PSY 2012 3 hrs PET 2622C 3 hrs
SPC 1600 3 hrs TSL 4080 3 hrs
ZOO 3736C 4 hrs PEO 2011 or 3 hrs
PET 4550 3 hrs

Summer (6 hrs)

AST 2002 3 hrs
STA 2014C 3 hrs

Junior Year

Fall (15 hrs) Spring (12 or 15 hrs)

DAE 3370 3 hrs EDF 4214 3 hrs
EDG 4323 3 hrs PEO 3205 3 hrs
PET 3765 3 hrs PEO 2011 (new K-12 Endorsement Requirement) 3 hrs
PET 4283 3 hrs PET 4312 3 hrs
UCF Degree Programs

PHYSICS (B.S.)
College of Arts and Sciences
Physics Department, MAP 310, 407-823-2325
http://www.physics.ucf.edu
E-mail: physics@ucf.edu
Chair: Ralph Llewellyn, 407-823-2325
Physics majors can select from five distinct tracks to earn their physics degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding between these tracks.

Admission Requirements
none

Degree Requirements
Students who change degree programs and select this major must adopt the most current catalog.

Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade.

Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics.

Courses designated in 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 English Composition I 3 hrs
Select ENC 1102 English Composition II 3 hrs
Prefer SPC 1016 Oral Comm for Tech Prof 3 hrs

B. Cultural and Historical Foundations
Select MAC 2311 Calculus with Analy Geo I 4 hrs
Select COP 2233 Computer Programming 3 hrs

C. Mathematical Foundations
Select MAC 2311 Calculus with Analy Geo I 4 hrs
Select COP 2233 Computer Programming 3 hrs

D. Social Foundations
Select one of the following 3 hrs

E. Science Foundations
Select PHY 2048 & L Physics for Sci & Eng I 4 hrs
(PR/MAC 2311)
Select a GEP course from Science Section 2 3 hrs

2. Common Program Prerequisites (20 hrs)

CHM 2045C Chem Fund I 4 hrs
CHM 2046 & L Chem Fund II with lab 4 hrs
MAC 2311 Calculus with Analy Geo I 4 hrs
MAC 2312 Calculus with Analy Geo II 4 hrs
MAC 2313 Calculus with Analy Geo III 4 hrs
PHY 2048 & L Physics Engr I & Lab 4 hrs
PHY 2049 & L Physics Engr & Sci II & Lab 4 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (all tracks) (36 hrs)

MAP 2302 Differential Equations 3 hrs
PHY 3101 Physics Engr & Sci III 3 hrs
PHZ 3113 Intro to Theoretical Methods of Physics 3 hrs
PHY 3220 Mechanics 3 hrs
PHY 3513 Thermal and Statistical Physics 3 hrs
PHY 3323 Electricity and Magnetism I 3 hrs
PHY 4324 Electricity and Magnetism II 3 hrs
PHY 4604 Introduction to Quantum Mechanics I 3 hrs
PHY 4605 Introduction to Quantum Mechanics II 3 hrs

PET 4550 3 hrs (new K-12 Endorsement Requirement)

Senior Year
Fall (15 hrs) Spring (12 hrs)

PHY 3940 3 hrs
PET 4943 12 hrs

PET 4640 3 hrs

PET 4401 3 hrs
PET 4710 3 hrs
PET 4550 3 hrs (new K-12 Endorsement Requirement)

RED 4043 3 hrs (Coaching Endrsmnt)

PET 4752C 3 hrs

PET 3940 3 hrs

PET 4401 3 hrs
PET 4710 3 hrs
PET 4550 3 hrs (new K-12 Endorsement Requirement)

4. Specialization: select one specialization

4.1 General Physics Specialization (18 hrs)

PHY 4604 Introduction to Quantum Mechanics I 3 hrs
PHY 4605 Introduction to Quantum Mechanics II 3 hrs

PHY 4424 Optical Physics Laboratory 3 hrs
PHY 4424 Physical Optics 3 hrs

Choose six hours from:

EEL 4440 Optical Engineering 3 hrs
PHY 4445 Lasers 3 hrs
OSE 5414 Fund. of Optoelectronic Devices 3 hrs

Directed Electives 5 hrs

Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

4.2 Materials Physics Specialization (18 hrs)

PET 4550 3 hrs

PET 3940 3 hrs

PET 4401 3 hrs
PET 4710 3 hrs
PET 4550 3 hrs (new K-12 Endorsement Requirement)

PHY 4802L Intermediate Physics Lab 3 hrs
PHY 3722C Physics Laboratory: Electronics 3 hrs

Directed Electives 9 hrs

Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

5. Departmental Exit Requirements
Students must have at least a 2.0 GPA in all courses counted toward the major.
Students will be required to take a nationally normed test in Physics during their last semester.
Students will have an exit interview in their last semester with a Physics Department representative.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: None

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.
### 1. UCF General Education Program (36 hrs)

- **A. Communication Foundations**
  - Select ENC 1101, ENC 1102
  - Select SPC 1600
- **B. Cultural and Historical Foundations**
  - Prefer AMH 2010 US History: 1492-1877
  - AMH 2020 US History: 1877-1969
  - Select from GEP B.2 list
- **C. Mathematical Foundations**
  - Select MGF 1106 Finite Mathematics
  - (may substitute a higher level math)
  - Select STA 2043 Principles of Statistics or
  - STA 2023 Statistics Using Excel
- **D. Social Foundations**
  - Select POS 2041 American National Government
  - Select one of the three choices
- **E. Science Foundations**
  - 3 hrs

### 2. Common Program Prerequisites (3 hrs)

- **POS 2041** or **American National Government**
- **POS 2043** or **Scope & Methods of Pol Sci**

*See Transfer Notes for possible substitutes*

### 3. Core (0 hrs)

- POS 2041 or **American National Government**
- POS 2043 or **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**

- **POS 3122** State Government & Public Policy
- **POS 3173** Southern Politics
- **POS 3182** Florida Politics
- **POS 3233** Public Opinion
- **POS 3235** Mass Media and Politics
- **POS 3258** 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
6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Internship Program: Political Science

For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- POS 2041* and POS 3703*: State mandated Common Program Prerequirement allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall
AMH 2010 U S His 1492 1877 3
ENC 1101 Composition I 3
MGF 1106* req# 1C1-GEP 3

Spring
AMH 2020 U S His 1877 Pres 3
ENC 1102 Composition II 3
MGF 1106* req# 1G2-GEP 3

Sophomore Year

Fall
BSC 1005* req# 1E2-GEP 3
POS 4284* req# 4A-ResElec 3

Spring
BSC 1121* req# 1E1-GEP 3
POS 3703 Meth of Pol Sci 3

Junior Year

Fall
POS 3233* req# 4A-ResElec 3
POS 3424* req# 4A-ResElec 3

Spring
POS 4604* req# 4A-ResElec 3
POS 4605* req# 4A-ResElec 3
POLITICAL SCIENCE (B.A.) -
INTERNATIONAL STUDIES TRACK

College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
R. Handberg, 407-823-2608

Admission Requirements

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
   - English Composition 3 hrs
   - Communications Theory and Practice 3 hrs

B. Cultural and Historical Foundations
   - Pre-1900 World History 3 hrs
   - World History Since 1900 3 hrs

C. Mathematical Foundations
   - Select MGF 1106 Finite Mathematics 3 hrs
   - Select STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel 3 hrs

D. Social Foundations
   - Select POS 2041 American National Government 3 hrs

E. Science Foundations
   - Select one of the three choices 3 hrs
   - Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

INR 2002* International Relations-Theory and Practice 3 hrs
POS 2041* American National Government GEP

*See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)

INR 2002 International Relations-Theory and Practice GEP
POS 2041 American National Government GEP
ECO 2013 Principles of Macroeconomics 3 hrs
GEO 3470 World Political Geography 3 hrs
IDS 3153 Global Perspectives 3 hrs
CPO 3103 Comparative Politics 3 hrs
POS 2050 Scope and Methods of Political Science 3 hrs
INR 4601 International Relations Theory 3 hrs

4. Restricted Electives (18 hrs)

Note: Students must meet all prerequisites before taking these classes.

Regional

CPO 3034 Politics of Developing Areas 9 hrs
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 4104 European Union Politics
CPO 4123 Government and Politics of Great Britain
CPO 4303 Comparative Latin American Politics
CPO 4553 Politics of Japan

CPO 4643 Government and Politics of Russia
CPO 4710 Women in Comparative Politics
CPO 5354 Contemporary Politics of the Mayan Region
POS 3253 Contemporary Revolution and Political Violence

Functional 9 hrs

INR 3253 International Politics of Africa
INR 4030 Diplomacy
INR 4076 Global Development Policy
INR 4075 Human Rights Policy
INR 4074 Immigration Policy
INR 4304 Issues in International Public Policy
INR 4714 Politics of International Trade Policy
INR 4804 The Intelligence Community
INR 4603 International Relations Theory
INR 4035 International Political Economy
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 4243 International Politics of Latin America
INR 4304 Issues in International Public Policy
INR 4335 Coercion and Development Politics
INR 4351 International Environmental Law
INR 4401 International Law I
INR 4402 International Law II
INR 4404 Space Law
INR 4502 International Organizations
INR 4941 Internship (a maximum of 3 hrs)
PUP 4503 Government and Society
PUP 4510 Space Policy

Other courses may be substituted with the chair’s approval.

5. Required minor (18 hrs minimum)

Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, or Spanish. Note: No more than one course may be used to fulfill both this track and the minor.

6. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major.
- Computer Competency met by POS 3703

7. Foreign Language Requirements (0-11 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.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisors approval. May be outside of the department.

9. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:

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

Acceptable Substitutes for common program prerequisites if taken
prior to transferring to UCF:
- POS 2041* and INR 2002**: Although state mandated CPP accept any six hours of introductory Political Science classes, both POS 2041 and INR 2002 are required in the major.

POLITICAL SCIENCE - PRELAW TRACK (B.A.)

College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the Department’s prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

Admission Requirements
None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program 36 hrs)
   A. Communication Foundations
   - Select ENC 1101, ENC 1102 6 hrs
   - Select SPC 1600 3 hrs
   B. Cultural and Historical Foundations
   - Prefer AMH 2010 US History: 1492-1877 and AMH 2020 US History: 1877-Present 15 hrs
   - Select from GEP B.2 list 3 hrs
   C. Mathematical Foundations
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   - Select STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations
   - 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 3 hrs
   - POS 3703 Scope & Methods of Pol Sci
   - *See Transfer Notes for possible substitutes

3. Core
   - POS 2041 American National Government 3 hrs
   - POS 3703 Scope & Methods of Pol Sci 3 hrs

4. Upper Division Restricted Electives (30 hrs)
   - POS 4184 Judicial Process and Politics 3 hrs
   - POS 4603 American Constitutional Law I 3 hrs
   - INR 4401 International Law I 3 hrs
   - INR 4402 International Law II 3 hrs
   - Select one (See listing under Political Science) 15 hrs
   - Five courses from area A and 15 hrs
   - Two courses from area B 6 hrs
   - Two courses from area A and 6 hrs

5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

6. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

Some suggested electives include:
- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- BUL 3320,3321 Business Law I & II
- PL 3104 Legal Research
- PL 3155 Legal Writing
- PH 2101 Critical Thinking
- MTH 3302 Logic and Proof in Mathematics
- ENC 2341 Writing for the Technical Professional
- ENC 3520 Professional Writing
- LIN 4100 History of the English Language
- Internship Program: Political Science

For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

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

Total Semester Hours Required 120 hours

Related Programs: Economics, History, Philosophy

Related Minors: Economics, History, English, Philosophy

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- POS 2041* and POS 3703**: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternatives 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 hrs
- ENC 1101 Composition I 3 hrs
- MG 1106* req# 1C1-GEP 3 hrs
- POS 2041 Amer National Gvt 3 hrs
Spring
- AMH 2020 U S His 1877-Present 3 hrs
- ENC 1102 Composition II 3 hrs
- REL 2300* req# 1B3-GEP 3 hrs
- POS 2041 Amer National Gvt 3 hrs
PSY 2012* req# 1D2-GEP 3 STA 2014C Prin of Statistics 3

Sophomore Year
Fall
BSC 1005* req# 1E2-GEP 3 PSC 3211* req# IE1-GEP 3
POS 4284 Jud Process Pol 3 POS 3073 Meth of Pol Sci 3
CPO 3103* req# 4.2B-RE 3 POS 4604* req# 4.1-ResEle 3
Elective* Check restrictions 3 Elective* Check restrictions 3
SPN 1120* req# Lang/Elec 4 SPN 1211* req# Lang/Elec 4

Junior Year
Fall
POS 4603* req# 4.1-ResEle 3 POC 3124* req# 4.2-A-RE 3
POS 3223* req# 4.2-A-RE 3 Elective* Check restrictions 3
POS 3424* req# 4.2-A-RE 3 Elective* Check restrictions 3
CPO 3004* req# 4.2B-RE 3 Elective* Check restrictions 3
Elective* Check restrictions 3 Elective* Check restrictions 3

Senior Year
Fall
Pos 3122* req# 4.2-A-RE 3 Elective* Check restrictions 3
POT 3204* req# 4.3C-RE 3 Elective* Check restrictions 3
Elective* Check restrictions 3 Elective* Check restrictions 3
Elective* Check restrictions 3 Elective* Check restrictions 4
Elective* Check restrictions 3

PSYCHOLOGY (B.A.)

College of Arts and Sciences
Psychology Department, PH 302B, 407-823-2216
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
R. Dipboye, 407-823-2216
Psychology Advising Center: PH 305G 407-823-2219

Students majoring in Psychology as the foundation of a Liberal Arts degree will probably find the BA option an appropriate degree. Not open to BS Psychology majors.

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department.
- Students must earn at least a "C" (2.0) in each Psychology course.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with the Department Director of Undergraduate Advising HPH 305G prior to applying for graduation (before registration for the final term).
- Graduating seniors should complete the senior exit survey.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in Psychology:

Additional Requirements (6 hrs)

- The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology.
- Application and admission through the department.
- Fulfill University requirements for Honors in the Major.
- Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a "B" (3.0).
- Have an overall UCF GPA above 3.2
- PSY 4970H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (36 hrs)

   A. Communication Foundations
      - 9 hrs
   B. Cultural and Historical Foundations
      - 9 hrs
   C. Mathematical Foundations
      - 3 hrs
         Select MGF 1106 Finite Math (may substitute a more advanced math)
   D. Social Foundations
      - 3 hrs
         Select one of the listed choices

2. Common Program Prerequisites (3 hrs)

   BSC 1005* Biological Principles GE
   PSY 2012* General Psychology GE
   DEP 2004* Developmental Psychology 3 hrs
   STA 2023* Statistical Methods I or STA 2014C GE

   *See Transfer Notes for possible substitutions

3. Core requirements (10 hrs)

   EXP 3404 Basic Learning Processes 3 hrs
   PSB 3002 Physiological Psychology 3 hrs
   PSY 3212C Research Methods 4 hrs

4. Restricted Electives (12 hrs)

   Select two of the following three courses 6 hrs
   - DEP 2004 Developmental Psychology
   - PPE 3003 Personality Theory
   - SOP 3004 Social Psychology

   Select six additional upper division hours in Psychology 6 hrs

5. Diversity courses (9 hrs)

   Take three diversity courses: one from A, one from B, and one from either A or B.
   A. Psychology Diversity courses
      - CLP 3184 Women's Mental Health
      - DEP 3464 Psychology of Aging
      - SOP 3723 Cross Cultural Psychology
      - SOP 3724 Psychology of Racial Prejudice
      - SOP 3742 Psychology of Women
      - SOP 2772 Sexual Behavior
      - SOP 3794 Psychology of Diversity

   B. General Diversity courses
      - Select from courses outside the Psychology department that focus on gender, class, or minority issues: AMH 3421, AMH 3423, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586, AML 3283, AML 3614, AML 3615, AML 3682, AML 3640, AML 4261, ANT 3241, ANT 3245, ANT 3302, AN 3311, AN 3313, AN 3332, ANT 3363, ANT 3341, ANT 3340, ARH 3520, ASH 4304, ASH 4404, ASH 4442, CCJ 4463, CCJ 4670, CJE 4174, CLA 3851, COM 4014, COM 4461, CPO 3403, EUH 4576, FIL 3309, GEO 3470, GEY 3001, HSC 4564, HUM 3320, HUM 3401, HUM 3419, JST 3401, JST 3402; LAH 3130, LAH 3200, LAH 3400, LAH 5713; LIN 4643, LIT 3383, LIT 3192; MMC 4300; NUR 3805, NUR 3616; PAD 4464, PHI 3302, PHI 3303; PHM 3123, PLA 4020, PLA 4910; POS 4246, POS 4622; PUP 3314, PUP 4323; REL 3162; SOW 4302, SPA 4602, SPA 4603; SPW 4772; SYD 3700, SYD 3750, SYD 3790, SYD 3790, SYD 3800, SYD 4732, SYD 4730, SYD 4734, SYD 4810, SYD 4813, THE 3230; WST 3015.

6. Departmental Exit Requirements

   - Earn a grade of "C" (2.0) or better in each psychology course used for major.
   - Maintain a minimum overall psychology GPA of 2.0.
   - Computer Competency met by PSY 3213C

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 departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

   A. 2.0 UCF GPA
   B. 60 semester hours earned after CLEP awarded
   C. 48 semester hours of upper division credit completed
   D. 30 of the last 36 hours of course work must be completed in residence at UCF
   E. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   F. Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
PSYCHOLOGY (B.S.)

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice

Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

Certificates: Aging Studies, Behavioral Forensics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- BSC 1005*: any lower level BSC course or ZOO X010.
- PSY 2122*: any PSY course. However, PSY 2122 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023* or STA 2014C: any lower level STA course. However, STA 2023 (or STA 2014C) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004*: any lower level psychology course.

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
BSC 1005 Bio Principles 3
ENC 1101 Composition I 3
MGF 1106* req# ICI-GEP 3
POS 2041* req# 1D1-GEP 3
PSY 2012 General Psychology 3

Spring
BC 1102 Composition II 3
FSC 1121* req# 1E1-GEPS 3
REL 3000* req# 1B2-GEP 3
SOP 1016* req# 1A3-GEP 3
DEP 2004 Dev Psychology 3

Sophomore Year

Fall
AMH 2010* req# 1B1-GEP 3
MUL 2104* req# IBI-GEP 3
STA 2023 Stat Methods I 3
SOP 2772* req# 5A-Diver 3
SPN 1120* req# Lang/Elect 4

Spring
PSY 3213C Res Meth in Psych 4
PPE 3003* req# 4-ResEl 3
SOP 3003* req# 5B-Diver 3
SPN 1121* req# Lang/Elect 4

Junior Year

Fall
EXP 3040 Basic Learn Proc 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring
CLP 3184* req# 4-ResElect 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Senior Year

Fall
CLP 3143* req# 4-ResElect 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring
CLP 3302* req# 4-ResElect 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Emergency Plan

Take one of the listed choices 3 hrs

Graduating seniors should complete the senior exit survey and submit the exit survey before registration for the final term.

1. UCF General Education Program

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
- Select MGF 1106 Finite Math (may substitute a more advanced math)
- Select STA 2023 Statistical Methods I or STA 2014C Principles of Statistics 3 hrs
D. Social Foundations
- Select one of the listed choices 3 hrs
- Select PSY 2012 General Psychology 3 hrs
E. Science Foundations
- Select BSC 2010C Biology I or BSC 1005 (if no additional Biology courses are planned) 4 hrs
- Select one of the listed choices 3 hrs

2. Common Program Prerequisites

A. Psychology Diversity courses 3 hrs
B. Social Science courses 9 hrs

3. Core requirements

A. Psychology Diversity courses 12 hrs
- Select two of the following: 6 hrs
- Select STA 2023 Statistical Methods I or STA 2014C 3 hrs

4. Restricted Electives

A. Psychology electives: select six additional upper division hours in psychology 6 hrs

5. Diversity courses

Take two diversity courses - one from A & one from B 6 hrs

UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
6. Science Electives (12 hrs)
A. Select at least six credits outside Psychology from: 6-8 hrs
(See course listing for prerequisites)
- CGS 2100C Computer Fundamentals of Business
- COP 3502C Computer Science I
- COP 3503C Computer Science II
- ENC 3241 Writing for the Technical Professional or
- ENC 3221 Theory and Practice of Technical Writing
- ENC 4280 Technical Writing Style
- MAC 2311 Concepts of Calculus
- MAC 2313 Applied Calculus I
- MAC 2315 Applied Calculus II
- PCB 3063 & L Genetics with lab
- PCB 3703C Human Physiology
- STA 4102 Computer Process of Stat Data
- STA 4163 Statistical Methods II
- STA 4164 Statistical Methods III
- ZOO 3733C Human Anatomy
B. Select at least two of the following: 5-8 hrs
- EXP 3204C Perception
- EXP 3604C Cognitive Psychology
- EXP 4507C Advanced Human Memory and Cognition
- PSB 3441 Psychobiological Aspects of Drugs
- PSB 4422 Brainwaves and Behavior
- PSB 4420C Neuropsychology
- PSY 3302C Psychological Measurement
- PSY 3320C Survey Methods in Psychology
- PSY 4213L Advanced Research Methods Statistical Lab
- PSY 4305C Psychological Measurement Lab

7. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each psychology course
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3213C

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

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

Total Semester Hours Required 120 hours

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice
Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- BSC 2010C: any lower level BSC course or ZOO X010.
  However, BSC 2010C is a prerequisite for all subsequent Biology courses and thus may need to be taken in order to qualify for other Biology courses used as science electives for the BS degree in psychology.
- PSY 2012: any PSY course. However PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023 or STA 2014C: or any lower level STA course.
  However, STA 2023 (or STA 2014C) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004: any lower level psychology course.

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 2000* req# 1B1-GenEd 2
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- EUH 2000* req# 1B1-GenEd 2
- DEP 2004 Developmental Psych 3
- EXP 3404 Basic Learn Proc 3
- SOP 3034 Social Psychology 3
- SPN 1120* req# 4-Language
Spring
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- EUH 2001* req# 4-Eng/Sci
- DEP 2004 Developmental Psych 3
- EXP 3404 Basic Learn Proc 3
- SOP 3034 Social Psychology 3
- SPN 1121* req# 4-Language

Sophomore Year
Fall
- ARH 2000* req# 1B1-GenEd 2
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- EUH 2000* req# 1B1-GenEd 2
- DEP 2004 Developmental Psych 3
- EXP 3404 Basic Learn Proc 3
- SOP 3034 Social Psychology 3
- SPN 1121* req# 4-Language
Spring
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- EUH 2001* req# 4-Eng/Sci
- DEP 2004 Developmental Psych 3
- EXP 3404 Basic Learn Proc 3
- SOP 3034 Social Psychology 3
- SPN 1121* req# 4-Language

Junior Year
Fall
- PSY 2012 General Psychology 3
- STA 2023 or STA 2014C or any lower level STA course.
- STA 2014C: or any lower level STA course.
- STA 2023: or any lower level STA course.
- STA 2014C: or any lower level STA course.
- STA 2023: or any lower level STA course.
- STA 2014C: or any lower level STA course.
- STA 2023: or any lower level STA course.
- STA 2014C: or any lower level STA course.
Spring
- PSY 2012 General Psychology 3
- STA 2023 or STA 2014C or any lower level STA course.
- STA 2014C: or any lower level STA course.
- STA 2023: or any lower level STA course.
- STA 2014C: or any lower level STA course.
- STA 2023: or any lower level STA course.
- STA 2014C: or any lower level STA course.
- STA 2023: or any lower level STA course.

Senior Year
Fall
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3
Spring
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3
- EXP 3204C* req# 6B-SCI 4
- DEP 2004 Prevention Programs 3

PUBLIC ADMINISTRATION (B.A., B.S.)
College of Health and Public Affairs
HPA2 238, 407-823-2604
http://www.cooha.ucf.edu/pubadm/
Chair: Montgomery Van Wart
Undergraduate Coordinator: Ronnie Korosec
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).
- No transfer course will be accepted with a grade lower than a “C” (2.0).
The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   Select GSC 1060C
   D. Social Foundations (nine hours required for major) 6 hrs
   Select PSY 2012 or SYG 2000
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
   C. Mathematical Foundations 6 hrs
   B. Cultural Historical Foundations 9 hrs
   1. UCF General Education Program (36 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 another UCF major, must take a minimum of 15 hrs PAD prefixed electives;
   - Those who complete a recognized UCF minor in a discipline outside Public Administration must take a minimum of 18 hrs PAD prefixed electives;
   - All other PAD majors must complete at least 21 hrs of PAD prefixed electives at the 3000 level or higher within the restricted elective area;
   - Additional electives can be taken from other allied supporting fields such as accounting, legal studies, communications, computer science, criminal justice, economics, political science, social work, sociology and statistics. Courses should be selected with the assistance of an advisor, and must be upper division (3000-4000 level).

5. Departmental Exit Requirements
   The students must attain a minimum grade of ‘C’ (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3 and 4).

6. B.A./B.S. Option (6 hrs)
   - Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level.
   - Students pursuing the B.S. degree must complete two additional upper level technical courses (six credit hours) from a list approved by the Department.

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level, beyond University requirement.

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

   Total Semester Hours Required 120 hrs

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**Related Programs**: Accounting, Communications, Economics, Legal Studies, Computer Science, Social Work, Political Science, Criminal Justice, Health Services Administration, Management

**Related Minors**: Communications, Business, Economics, Political Science, Legal Studies, Criminal Justice

**Transfer Notes**: Intro. to Computer Science (GSC 1060C) or any Computer Science course
Economics I (ECO 2013) or any Macroeconomics course
American National Government (POS 2041) or any course in American National Government

**Tentative Course Schedule for Entering Freshmen**

**Freshman Year**

- **Fall**
  - 14 hrs
  - English: ENC 1101 3, ENC 1102 3
  - General Education: CGS 1060C 3, MGF 1106 3
  - Science: POS 2041 3, PSY 2012 or SYG 2000 3
  - Select One Course: ARH 2050, 3 or ANT 2000
  - Upper Division Restricted Electives (39 hrs): PAD 4720 3

- **Spring**
  - 15 hrs
  - English: PHI 2010, LIT 2110, 3 or PHI 2011, LIT 2120, 3
  - Upper Division Restricted Electives (39 hrs): PAF 2102 2

**Sophomore Year**

- **Fall**
  - 15 hrs
  - Professional Electives: ENC 1101 3, ENC 1102 3
  - General Education: CGS 1060C 3, MGF 1106 3
  - Science: POS 2041 3, PSY 2012 or SYG 2000 3
  - Select One Course: ARH 2050, 3 or ANT 2000
  - Upper Division Restricted Electives (39 hrs): PAD 4720 3

- **Spring**
  - 15 hrs
  - Professional Electives: PHI 2010, LIT 2110, 3 or PHI 2011, LIT 2120, 3
  - Upper Division Restricted Electives (39 hrs): PAF 2102 2

**Junior Year**

- **Fall**
  - 15/16 hrs
  - Professional Electives: PAD 4104 3, PAD 4414 3, PAD Elective 3
  - Restricted Elective 3
  - (Foreign Lang I) or B.S. option 3/4

- **Spring**
  - 15/16 hrs
  - Professional Electives: PAD 4104 3, PAD 4414 3, PAD Elective 3
  - Restricted Elective 3
  - (Foreign Lang II) or B.S. option 3/4

**Senior Year**

- **Fall**
  - 15 hrs
  - Professional Electives: PAD Elective 3
  - Restricted Elective 3
  - Restricted Elective 3

- **Spring**
  - 12/15 hrs
  - Professional Electives: PAD Elective 3
  - Restricted Elective 3
  - Restricted Elective 3

**Minors**

The six PAD required core courses for the major will be required of the PAD minor. These are PAD 3003, PAD 4414, PAD 4104, PAD 4204, PAD 4034, and PAD 4720.

The Department of Public Administration offers minors in Urban and Regional Planning and Public Administration and also offers certificates in Non-profit Management and Urban and Regional Planning.

**RADIO-TELEVISION (B.A.)**

College of Arts and Sciences
Nicholson School of Communication, COM 238
407-823-2681
http://www.cas.ucf.edu/communication
E-mail: radiotv@ucf.edu

M.A. Shaver
Admission Requirements - Limited Access
- Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are:
  - October 1, 2005 for Spring 2006
  - February 1, 2006 for Summer 2006
  - July 1, 2006 for Fall 2006
- Attain an overall minimum 2.25/4.0 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies each term.
with the quality of applicants, and during the previous year, ranged from a minimum of 2.9.

- Meet a grammar proficiency standard
- Receive a positive evaluation of other factors specified by the School

4. Specialization: select one area

4.1 Production (18 hrs)

Select 15 hours from the following:

- RTV 321C Audio Production I (4 hrs)
- RTV 322C Studio Television Production (4 hrs)
- RTV 323C Lighting for Video (3 hrs)
- RTV 326C Single-Camera Video Production (4 hrs)
- RTV 326C Advanced Video Post-Production (3 hrs)
- RTV 328C Production of Int. Multimedia (3 hrs)
- RTV 3942L Practicum 1-3 hrs
- RTV 421C Audio Production II (3 hrs)
- RTV 428C Webcasting I (3 hrs)
- RTV 428C Webcasting II (3 hrs)
- RTV 428C Television Directing (4 hrs)
- RTV 427C Radio Production & Programming (3 hrs)
- RTV 4941 Internship 1-3 hrs

4.2 Broadcast Journalism (19 hrs)

- RTV 326C Single-Camera Video Production (4 hrs)
- RTV 3942L Practicum 1-3 hrs
- RTV 421C Audio Production II (3 hrs)
- RTV 428C Webcasting I (3 hrs)
- RTV 428C Webcasting II (3 hrs)
- RTV 428C Television Directing (4 hrs)
- RTV 427C Radio Production & Programming (3 hrs)
- RTV 4941 Internship 1-3 hrs

4.3 Broadcast Generalist (18 hrs)

A. Select 12 hours from Group A:
- RTV 3231C Broadcast Announcing & Performance (4 hrs)
- RTV 427C Radio Production & Programming (3 hrs)
- RTV 4700 Regulation of Broadcasting (3 hrs)
- RTV 4800 Broadcast Management (3 hrs)
- ADV 4103 Radio-TV Advertising (3 hrs)
- CMC 4240 Corporate/Institutional Video (3 hrs)
- COM 3330 Computer-Mediated Comm. (3 hrs)
- MMC 4263 New Media Technologies (3 hrs)

B. Select 6 hours from Group B:
- ADV 3000 Principles of Advertising (3 hrs)
- PUR 4000 Public Relations (3 hrs)
- COM 3110 Business & Prof. Comm. (3 hrs)
- ENC 2210 Writing for Business Professionals (3 hrs)

5. Required Minor (18 hrs minimum)

Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

6. School Exit Requirements

- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Achieve an overall “C” GPA (2.0) in required UCF Radio-TV courses. This GPA does not include Restricted Electives in the major or other electives.
- Computer competency met by CGS 1060C.

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. Students should take electives from outside of the School.

9. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre

Related Minors: Digital Media, Film, Marketing, 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.
RADIOLOGIC SCIENCES (B.S.)
College of Health and Public Affairs
HPA2 210, 407-823-2747
http://www.cohpa.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. Programs with concerns or questions should contact the program to schedule an appointment with an advisor.
- Criminal history information (background check) must be submitted on or before April 1st of the year admission is sought. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.
- Students must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program. All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C."

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.
- UCF Residency Requirement for Radiography: 33 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
     - Select MAC 1105
   - Select CJS 1060C
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs
     - Select BSC 2010C
     - Select PHY 2053C

2. Common Program Prerequisites (12 hrs)
   - CJS 1060C Introduction to Computer Science GEP
   - PCB 3703C Human Physiology* 4 hrs
   - PHY 2053C College Physics I GEP
   - PHY 2054C College Physics II 4 hrs
   - ZOO 3733C Human Anatomy* 4 hrs
   - MAC 1105 College Algebra GEP
   - * See Transfer Notes

3. Core Requirements (76 hrs)
   - Junior Level
     - RTE 3000 Introduction to Radiologic Sciences 3 hrs
     - RTE 3111C Introduction to Patient Care 2 hrs
     - RTE 3503C Radiographic Procedures I 3 hrs
     - RTE 3116 Advanced Patient Care 3 hrs
   - Senior Level
     - RTE 4563 Special Radiographic Procedures 2 hrs
     - RTE 4782 Pathophysiology 2 hrs
     - RTE 4814L Clinical Education I 5 hrs
     - RTE 4824L Clinical Education II 6 hrs
     - RTE 4573 Advanced Imaging Modalities 3 hrs
     - RTE 4834 Clinical Education IV 4 hrs
     - RTE 4385 Radiobiology 1 hr
     - RTE 4844 Clinical Education V 4 hrs
     - RTE 4473 Quality Improvement 3 hrs
     - RTE 4762 Anatomy for the Medical Imagee 3 hrs
     - RTE 4206 Leadership in Radiologic Sciences 3 hrs
     - RTE 4854 Advanced Clinical Practicum 2 hrs

4. Upper Division Restricted Electives:
   - RTE 4509 Radiological Adm. Practice 2 hrs
   - RTE 4903 Directed Study Radiologic Education 2 hrs

5. Program Exit Requirements (124 hrs)
   - A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

6. Electives
   - none

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

8. University Minimum Exit Requirements
   - An overall GPA of 2.5
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (124 hrs)

Related Programs:
- Cardiopulmonary Sciences, Nursing, Health Services Administration
- Related Minors: Health Services Administration

Transfer Notes:
Credit by Examination
Credit by Exam for clinical education courses will be awarded to ARRT certified Registered Technologists who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated by registration in multiple disciplines, registration in an advanced level of certification or completion of the Advanced Clinical Practicum course. Students who 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 2045C and BSC 2046C) 8
College Algebra (MAC 1105) OR (MAC 1102) 3
College Physics I (PHY 2053C) 4
College Physics II (PHY 2054C) 4
Introduction to Computer Science (CGS 1060C) or any other Computer Science course 3

Tentative Course Schedule for Entering Freshmen

RADIOLOGIC SCIENCES
Freshman Year*
Fall 15 hrs Spring 16 hrs
ENC 1101 3 ENC 1102 3
CGS 1060C 3 BSC 2010C 4
MAC 1105 3 MAC 1114 3
CMH 1032 4 ECO 2012 or POS 2041 or 3
HSC 2000 2 ECO 2023 2
MUL 2010 or THE 2000 or REL 2300 or PHI 2010 or 3
 or ARH2050 or FIL2400

Sophomore Year
Fall 14 hrs Spring 14 hrs
PHY 2053C 4 PCB 3703C 4
ZOI 3702C 4 SPC 1600 3
EHU 2000 or HUM 2211 3 PHY 2054C 4
or AMH 2010 3 EU2001 or 3
PSY 2012 or SYG 2000 or HUM 2230 or AMH 2020 3
ANT 2000

Junior Year
Fall 16 hrs Spring 16 hrs
HFT 4266 Restaurant Brand Management 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
HFT 4268 Hospitality Facilities, Planning and Design 3 hrs
FSS 3124 Supply and Procurement Management 3 hrs
HFT 4269 Case Studies in Multi-Unit Restaurant Mgt 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
FSS 3008 Culture and Cuisine 3 hrs
HFT 4341 Hospitality Managerial Accounting 3 hrs
FSS 4286 Catering and Banquet Organization 3 hrs
HFT 4281 Restaurant Leadership Strategies and Tactics 3 hrs

E. Science Foundation

Science Foundation

2. Common Program Prerequisites (6 hrs)
HFT 1000 Introduction to Hospitality Management 3 hrs
FSS 2211C Quantity Food Preparation 3 hrs

3. Quantitative Tools
CGS 2100C Computer Fundamentals of Business (GEP)
or STA 2023 Statistical Methods I (GEP)
ECO 2013 Macroeconomics
or ECO 2023 Microeconomics (GEP)
MAC 1105 College Algebra (GEP)

4. Managerial Tools (25 hrs)
HFT 2403 Hospitality Financial Accounting 3 hrs
HFT 2500 Hospitality Marketing 3 hrs
HFT 2220 Hospitality Human Resources 3 hrs
HFT 3444 Hospitality Information Systems 3 hrs
HFT 3600 Legal Environment in Hospitality 3 hrs
HFT 3431 Hospitality Managerial Accounting 3 hrs
HFT 3540 Guest Services Management 3 hrs
HFT 3261 Restaurant Management 3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mangnt 1 hr

5. Internship (3 hrs)
HFT 3840 Internship 1 hr
HFT 4941 Internship 1 hr
HFT 4941 Internship 1 hr

6. Restaurant Management Core (18 hrs)
HFT 4268 Case Studies in Restaurant Management 3 hrs
HFT 3807 Multi-Unit Food Service Operations 3 hrs
FSS 3124 Supply and Procurement Management 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
HFT 4266 Restaurant Brand Management 3 hrs
HFT 4281 Restaurant Leadership Strategies and Tactics 3 hrs

7. Special College Requirements
Final exams will be given during Exam Week only.
Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.
The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

8. Restricted Electives (18 hrs)
Choose any courses from the list below for a total of 18 credit hours
FSS 3223C Intermediate Techniques of Food Production 3 hrs
HFT 3807 Multi-Unit Food Service Operations 3 hrs
FSS 4286 Catering and Banquet Organization 3 hrs
HFT 4645 Restaurant Real Estate, Site Selection 3 hrs
and Modeling
HFT 4861C Beverage Management 3 hrs
HFT 4425 Financial Analysis for Restaurant Managers 3 hrs
HFT 3574 Foodservice Marketing, Advertising, and Promotion Management 3 hrs
HFT 4369 Case Studies in Multi-Unit Restaurant Mgt 3 hrs
HFT 3654 Franchising in the Restaurant Industry 3 hrs
HFT 4281 Restaurant Leadership Strategies and Tactics 3 hrs
HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
FSS 3008 Culture and Cuisine 3 hrs
HFT 3610 Law and Restaurant Management 3 hrs
HFT 3285 International Restaurant Corporation Management 3 hrs
HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
HFT 3834 Topics in Restaurant & Foodservice Management 3 hrs
HFT 4864 Anheuser-Busch Seminar in Quality Brewing and Fine Beer 3 hrs
HFT 4866C Exploring Wines of the World 3 hrs
HFT 4844 Sanitation in the Food Service Industry 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs
HFT 4286 Hospitality Communications 3 hrs

C. Mathematical Foundations
Select MAC 1105 College Algebra 3 hrs
Select CGS 2100C Computer Fundamentals for Business 3 hrs
STA 2023 Statistical Methods I

D. Social Foundations
Select ECO 2013 Macroeconomics 3 hrs
or Select ECO 2023 Microeconomics 3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs

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.

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
Dear: Abraham Pizam

Degree Requirements
1. UCF General Education Program (GEP) (36 hrs)
   A. Communications Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs

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SCIENCE EDUCATION - BIOLOGY (B.S.)  
College of Education  
Department of Teaching and Learning Principles  
ED 209  
http://www.edcollege.ucf.edu/  
Program Coordinator: Dr. Aldrin Sweeney  
ED 123-L, 407-823-2561  
E-mail: asweeney@megasus.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)  
   ENC 1101 Composition I  
   ENC 1102 Composition II  
   SPC 1600 Fundamentals of Oral Communication  
   B. Cultural-Historical Foundations (9 hrs)  
   AMH 2010 U.S. History 1492-1877  
   AMH 2020 U.S. History 1877-Present  
   PHI 2010 Introduction to Philosophy  
   C. Mathematical Foundations (6 hrs)  
   MGF 1106 Finite Mathematics  
   Select one:  
   STA 1060C Basic Statistics using MS Excel or  
   STA 2041C Principles of Statistics
   D. Social Foundations (6 hrs)  
   POS 2041 American National Government  
   PSY 2012 General Psychology  
   E. Science Foundations (6 hrs)  
   PSC 1121 Physical Science  
   Select one:  
   AST 2003 Astronomy or  
   GEO 1200 Physical Geography or  
   GLY 1030 Geology and its Applications

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (31 hrs)
   A. Communications  
   ENC 1101 Composition I  
   ENC 1102 Composition II  
   SPC 1600 Fundamentals of Oral Communication  
   B. Humanities  
   PHI 2010 Introduction to Philosophy  
   Select one:  
   ARH 2051 History of Western Art I or  
   ARH 2051 History of Western Art II or  
   MUL 2010 Enjoyment of Music or  
   THE 2000 Theatre Survey or  
   FIL 2400 History of Motion Pictures
   C. Mathematics  
   MAC 1105 College Algebra  
   MGF 1106 Finite Mathematics  
   One of the following (per GEP)  
   STA 1060C Basic Statistics using MS Excel or  
   STA 2041C Principles of Statistics
   D. Social Science/History (12 hrs)  
   AMH 2010 U.S. History 1492-1877  
   AMH 2020 U.S. History 1877-Present  
   POS 2041 American National Government  
   PSY 2012 General Psychology
   E. Science (9 hrs + lab)  
   BSC 2010C Biology I w/Lab  
   PSC 1121 Physical Science  
   One of the following (per GEP)  
   AS 2003 Astronomy or  
   GEO 1200 Physical Geography or  
   GLY 1030 Geology and its Applications
   F. Education Courses (9 hrs)  
   EDF 2005 Introduction to Education  
   EDG 2701 Teaching Diverse Populations
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
- 60 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 126 hours
At this time, the catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

Freshman Year
Fall (12 hrs) Spring (15 hrs)
EDF 2005 3 hrs EDF 2701 3 hrs
ESE 1101 3 hrs ENC 1102 3 hrs
MGF 1106 3 hrs MAC 1106 3 hrs
PSY 2012 3 hrs Phil 2010 3 hrs
ESE 3940 3 hrs SCE 4360 4 hrs

Summer (6 hrs)
EME 2040 3 hrs POS 2041 3 hrs

Sophomore Year
Fall (17 hrs) Spring (16 hrs)
AMH 2010 3 hrs AMH 2020 3 hrs
BSC 2010C w/ lab 4 hrs BSC 2011C 4 hrs
CHM 2046 3 hrs CHM 2046L 1 hr
EDG 4323 3 hrs PCB 3044 3 hrs
EDG 2323 3 hrs ESE 4943 12 hrs
EDG 2603 1 hr ESE 4943 12 hrs
ESE 3940 3 hrs MCB 3020C 5 hrs
MCB 3020C 5 hrs MCB 3020C 5 hrs
PCB 3044 3 hrs PCB 3044 3 hrs
PCB 3044L 1 hr TSL 4080 1 hr
ZOO 3733C 4 hrs ZOO 3733C 4 hrs

Junior Year
Fall (14 hrs) Spring (12 hrs)
EDF 4214 3 hrs ESE 3940 3 hrs
EDG 4323 3 hrs ESE 3940 3 hrs
MGB 1106 3 hrs MCB 3020C 5 hrs
PCB 3044 3 hrs PCB 3044 3 hrs
PCB 3044L 1 hr PCB 3044L 1 hr
ZOO 3733C 4 hrs TSL 4080 1 hr

Summer (3 hrs)
LAE 4361 3 hrs

Senior Year
Fall (13 hrs) Spring (12 hrs)
EDF 4603 3 hrs ESE 4943 12 hrs
ESE 3940 3 hrs SCE 4360 4 hrs
ESE 3940 3 hrs Upper div restricted elect 3 hrs

SCIENCE EDUCATION - CHEMISTRY (B.S.)
College of Education
Department of Teaching and Learning Principles
ED209
http://www.edcollege.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney
ED 123-L, 407-823-2561
E-mail: asweeney@pegasus.cc.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its
### UCF Degree Programs

**University of Central Florida**

**B. Humanities (6 hrs)**
- **A. Communications (9 hrs)**

**2. Common Program Prerequisites (23 hrs)**
- **A. Communications**
  - ENC 1101 Composition I
  - ENC 1102 Composition II
  - SPC 1800 Fundamentals of Oral Communication

**B. Humanities**
- PHI 2010 Introduction to Philosophy
- Select one:
  - STA 1060C Basic Statistics using MS Excel
  - STA 2014C Principles of Statistics

**C. Mathematical Foundations**
- MGF 1106 Finite Mathematics
- Select one:
  - STA 1060C Basic Statistics using MS Excel
- STA 2014C Principles of Statistics

**D. Social Foundations**
- POS 2041 American National Government
- PSY 2012 General Psychology

**E. Science Foundations**
- PHY 2053C College Physics (includes lab)
- Select one:
  - AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications

### 2. Common Program Prerequisites (23 hrs)

**A. Communications**
- ENC 1101 Composition I
- ENC 1102 Composition II
- SPC 1800 Fundamentals of Oral Communication

**B. Humanities**
- PHI 2010 Introduction to Philosophy
- Select one:
  - STA 1060C Basic Statistics using MS Excel
  - STA 2014C Principles of Statistics

**C. Mathematical Foundations**
- MGF 1106 Finite Mathematics
- Select one:
  - STA 1060C Basic Statistics using MS Excel
- STA 2014C Principles of Statistics

**D. Social Foundations**
- POS 2041 American National Government
- PSY 2012 General Psychology

**E. Science Foundations**
- PHY 2053C College Physics (includes lab)
- Select one:
  - AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications

### 2. Common Program Prerequisites (23 hrs)

**A. Communications**
- ENC 1101 Composition I
- ENC 1102 Composition II
- SPC 1800 Fundamentals of Oral Communication

**B. Humanities**
- PHI 2010 Introduction to Philosophy
- Select one:
  - STA 1060C Basic Statistics using MS Excel
  - STA 2014C Principles of Statistics

**C. Mathematical Foundations**
- MGF 1106 Finite Mathematics
- Select one:
  - STA 1060C Basic Statistics using MS Excel
- STA 2014C Principles of Statistics

**D. Social Foundations**
- POS 2041 American National Government
- PSY 2012 General Psychology

**E. Science Foundations**
- PHY 2053C College Physics (includes lab)
- Select one:
  - AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications

### 2. Common Program Prerequisites (23 hrs)

**A. Communications**
- ENC 1101 Composition I
- ENC 1102 Composition II
- SPC 1800 Fundamentals of Oral Communication

**B. Humanities**
- PHI 2010 Introduction to Philosophy
- Select one:
  - STA 1060C Basic Statistics using MS Excel
  - STA 2014C Principles of Statistics

**C. Mathematical Foundations**
- MGF 1106 Finite Mathematics
- Select one:
  - STA 1060C Basic Statistics using MS Excel
- STA 2014C Principles of Statistics

**D. Social Foundations**
- POS 2041 American National Government
- PSY 2012 General Psychology

**E. Science Foundations**
- PHY 2053C College Physics (includes lab)
- Select one:
  - AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications

### 2. Common Program Prerequisites (23 hrs)

**A. Communications**
- ENC 1101 Composition I
- ENC 1102 Composition II
- SPC 1800 Fundamentals of Oral Communication

**B. Humanities**
- PHI 2010 Introduction to Philosophy
- Select one:
  - STA 1060C Basic Statistics using MS Excel
  - STA 2014C Principles of Statistics

**C. Mathematical Foundations**
- MGF 1106 Finite Mathematics
- Select one:
  - STA 1060C Basic Statistics using MS Excel
- STA 2014C Principles of Statistics

**D. Social Foundations**
- POS 2041 American National Government
- PSY 2012 General Psychology

**E. Science Foundations**
- PHY 2053C College Physics (includes lab)
- Select one:
  - AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications

## 3. Education Pre-Professional Requirements (3 hrs)
- MACI114 College Trigonometry

### 4. Education Core Requirements (15 hrs)
- EDF 4323 Professional Teaching Practices
- EDF 4003 Analysis of Critical Issues in Education
- EDF 4214 Classroom Learning Principles
- TSL 4080 Theory and Practice of Teaching ESOL
- LAE 4361 Literacy Strategies for Mid/High School

### 5. Internship I Block (7 hrs)
- SCE 4360 Science Instructional Analysis
- ESE 3940 Internship I

### 6. Specialization Requirements (27 hrs)
- BSC 2010C Biology I
- CHM 2045C Chemistry Fundamentals I
- CHM 2046 Chemistry Fundamentals II
- CHM 2040L Chemistry Fundamentals Lab
- PHY 2053C College Physics I
- PHY 2054C College Physics II
- CHM 3120C Analytical Chemistry
- CHM 2211 Organic Chemistry I
- CHM 2211L Organic Chemistry II
- CHM 2211L Organic Laboratory Techniques I
- CHS 3501 Intro to Forensic Science
- BCH 4053 Biochemistry I

### 7. Restricted Electives (3 hrs)
- One 3000- or 4000- level CHM, CHS, or BCH course with advisor’s approval

### 8. Internship II (ESE4943) (12 hrs)
- SCE 4360 and at least 80% of all required chemistry courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences

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

### 10. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

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

### 12. Total Program Semester Hours Required 127 hours
- At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 13. Recommended Four-Year Sequence of Courses

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td>EDF 4323</td>
<td>3 hrs</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDF 4003</td>
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<tr>
<td>ENC 1101</td>
<td>3 hrs</td>
<td>ENC 1102</td>
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<tr>
<td>MAC 1105</td>
<td>3 hrs</td>
<td>MGF 1106</td>
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<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>PHI 2010</td>
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<tr>
<td>PHY 2053C</td>
<td>4 hrs</td>
<td>PHY 2054C</td>
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</table>

**2005-2006 Undergraduate Catalog**
SCIENCE EDUCATION - PHYSICS (B.S.)

College of Education
Department of Teaching and Learning Principles, ED 209
http://www.edcollege.ucf.edu/

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   ENC 1101 Composition I
   ENC 1102 Composition II
   ENC 1120 Composition II
   SPC 1600 Fundamentals of Oral Communication
   B. Cultural-Historical Foundations (9 hrs)
   ANH 2010 U.S. History 1492-1877
   ANH 2020 U.S. History 1877-Present
   PHI 2010 Introduction to Philosophy
   C. Mathematical Foundations (6 hrs)
   MAC 1105 College Algebra
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
   POS 2041 American National Government
   PSY 2012 General Psychology

2. Common Program Prerequisites (21 hrs)
   A. Communications (9 hrs)
   ENC 1101 Composition I
   ENC 1102 Composition II
   B. Humanities (6 hrs)
   PHI 2010 Introduction to Philosophy
   Select one:
   ARH 2050 The History of Art I
   ARH 2051 The History of Art II
   C. Mathematics (10 hrs)
   MAC 1105 College Algebra
   MAC 2311 Calculus with Analytic Geometry I
   One of the following (per GEP)
   STA 1060C Basic Statistics using MS Excel
   STA 2014C Principles of Statistics
   STA 2043L Statistical Methods

3. Education Core Requirements (15 hrs)
   A. Professional Teaching Practices (3 hrs)
   EDG 4323 Professional Teaching Practices
   B. Program Internship I Prerequisites: EDG 4323 and at least 50% of all required chemistry courses must be completed prior to
   Internship I with a minimum grade of "C-" in all of these prerequisite courses.
   C. Additional requirements listed under College of Education, Office of Clinical Experiences

4. Internship I Block (7 hrs)
   A. Program Internship I Prerequisites: EDG 4323 and at least 50% of all required chemistry courses must be completed prior to
   Internship I with a minimum grade of "C-" in all of these prerequisite courses.
   B. Additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (26 hrs)
   A. Biological Foundations (4 hrs)
   BSC 2010C Biology I
   CHM 2046 Chemistry Fundamentals I
   CHM 2047 Chemistry Fundamentals II
   CHM 2046L Chemistry Fundamentals Lab
   MAC 2311 Calculus with Analytic Geometry I
   MAC 2312 Calculus with Analytic Geometry II
   MAC 2313 Calculus with Analytic Geometry III
   PHY 2048 Physics for Scientists I
   PHY 2048L Physics Lab for Eng. & Scientists I
   PHY 2049 Physics for Scientists II
   PHY 2049L Physics Lab for Eng. & Scientists II
   PHY 3101 Physics for Engineers & Scientists II
   PHY 3752C Physics of Scientific Instruments

6. Restricted Electives (8 hrs)
   A. Restricted Electives (3000- or 4000-level PHY or PHZ courses with advisor's approval)

7. Internship II (ESE4943) (12 hrs)
   A. Program Internship II Prerequisites: ESE 4360 and at least 80% of all required physics courses must be completed before doing Internship II
   B. Additional requirements listed under College of Education, Office of Clinical Experiences
SOCIAL SCIENCES (B.S.)
College of Arts and Sciences
Liberal Studies Program, CHN 201
http://www.cas.ucf.edu/liberal_studies

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Social Sciences major at least one semester before graduation.
- Co-op and internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Restricted Elective areas. Non-approved independent studies will not be counted towards the major.
- Students must earn at least a "C" (2.0) in each core requirement and restricted elective course.
- Students should consult with a Liberal Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program
(36 hrs)
- A. Communication Foundations
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations

2. Common Program Prerequisites
(6 hrs)
Select no more than two lower level Social Science courses in any one area in the Restricted Elective section.
* Asterisk indicates appropriate courses in the Restricted Electives section.

3. Core requirements
(3 hrs)
Select one course
- POS 3703 Scope and Methods of Political Science
- SYA 4300 Research Methods (Sociology)

4. Restricted Electives
(60 hrs)
Select a minimum of 15 semester hours in each of four of the following six Social Science disciplines.
- A. Communication
- B. Economics
- C. Political Science
- D. Psychology

of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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

9. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

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

11. Total Semester Hours Required
125 hours
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

Freshman Year
Fall (12 hrs)
- EDF 2005 3 hrs
- ENC 1101 3 hrs
- MAC 1105 3 hrs
- PSY 2012 3 hrs

Spring (16 hrs)
- AST 2002 3 hrs
- EDG 2701 3 hrs
- ENC 1102 3 hrs
- MAC 2311 4 hrs

Sophomore Year
Fall (17 hrs)
- AMH 2010 3 hrs
- BSC 2010C 4 hrs
- MAC 2312 4 hrs
- SPC 1600 3 hrs
- STA 2014C 3 hrs

Summer (6 hrs)
- EME 2040 3 hrs
- POS 2041 3 hrs

Fall (14 hrs)
- PHY 2048 3 hrs
- PHY 2048L 1 hr

Junior Year
Fall (14 hrs)
- CHM 2046 3 hrs
- CHM 2046L 3 hrs
- EDG 4323 3 hrs
- ESE 3940 3 hrs
- PHY 3752C 3 hrs

Spring (14 hrs)
- EDF 4603 3 hrs
- ESE 4943 3 hrs
- SCE 4360 4 hrs
- PHY 3752C 3 hrs

Senior Year
Fall (13 hrs)
- EDF 4603 3 hrs
- ESE 3940 3 hrs
- SCE 4360 4 hrs
- PHY 3752C 3 hrs

2004-2005 Undergraduate Catalog
E. Public Affairs
Select one course

CCJ 3024 Criminal Justice System
PLA 3013 Law and the Legal System
PAD 3003 Introduction to Public Administration
Additional 12 hours of Public Affairs courses

F. Sociology/Anthropology
* SYG 2000 General Sociology 3 hrs
* ANT 2000 General Anthropology 3 hrs
Select three additional Sociology/Anthropology courses 9 hrs

5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in each of four Social Science disciplines
- Computer Competency is met by the major

6. Foreign Language Requirements 0-8 hrs
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement (see a Liberal Studies advisor).

7. Electives (variable)
Select primarily from upper level courses, with a Liberal Studies advisor's approval.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Liberal Studies, Liberal Arts
Related Minors: Anthropology, Communication, Economics, Political Science, Psychology, Public Administration, Sociology
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.
Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- Any two introductory Social Sciences courses could meet admission requirements. However, the indicated courses are prerequisites for subsequent courses and must be taken.

SOCIAL SCIENCE EDUCATION (B.S.)
College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~wgaudell
Program Coordinator: Dr. William Gaudelli
ED 115-H, 407-823-0215
E-mail: wgaudell@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA

- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPE 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      Select one:
      STA 1060C Basic Statistics using MS Excel or
      STA 2041C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      PSY 2102 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science 3 hrs
      Select one:
      ANT 2511 The Human Species or
      BSC 1005 Biological Principles
   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I GE
      ENC 1102 Composition II GE
      SPE 1600 Fundamentals of Oral Communication GE
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy GE
      Select one:
      ARH 2051 History of Western Art I or
      ARH 2052 History of Western Art II or
      MUL 2010 Enjoyment of Music
   C. Science (9 hrs + lab)
      PSC 1121 Physical Science GE
      Select one of the following (per GE):
      ANT 2511 The Human Species or
      BSC 1005 Biological Principles
      Select one:
      AST 2002 Astronomy
      GEO 1290 Physical Geography
      GLY 1030 Geology and its Applications
      Select one associated science lab:
      1 hr
      BSC 1005L Biological Principles Laboratory
      PSC 1121L Physical Science Laboratory
   D. Education Courses (9 hrs)
      EDG 2005 Introduction to Education 3 hrs
      EDC 2701 Teaching Diverse Populations 3 hrs
      EME 2040 Technology for Educators 3 hrs
   E. Diversity Courses (3 hrs)
      Select one:
      AST 2002 Astronomy
      GEO 1290 Physical Geography
      GLY 1030 Geology and its Applications
      Select one associated science lab:
      1 hr
      BSC 1005L Biological Principles Laboratory
      PSC 1121L Physical Science Laboratory
   F. Special Education Courses (9 hrs)
      EDG 2005 Introduction to Education 3 hrs
      EDC 2701 Teaching Diverse Populations 3 hrs
      EME 2040 Technology for Educators 3 hrs
   G. Related Minors (6 hrs)
      Select one:
      SYG 2000 General Sociology 3 hrs
      ECO 2013 Macroeconomics 3 hrs

3. Education Core Requirements (15 hrs)
   A. Communication (3 hrs)
      EDG 4323 Professional Teaching Practices 3 hrs
   B. Human Development (3 hrs)
      EDC 4803 Analysis of Critical Issues in Education 3 hrs
      EDC 4821 Classroom Learning Principles 3 hrs
      TSL 4080 Theory and Practice of Teaching ESL 3 hrs
      Students in Schools
   C. Literacy Studies, Liberal Arts (6 hrs)
      LAE 4361 Literacy Strategies for Mid/High School 3 hrs
   D. Educational Psychology (6 hrs)
      EDG 4351 Introduction to Educational Psychology 3 hrs
      PSY 4102 Child Development 3 hrs
   E. Assessment and Evaluation (3 hrs)
      EDG 4300 Advanced Assessment & Evaluation 3 hrs
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
   F. Education Research (3 hrs)
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
      EDG 4396 Research Methods in Educational Psychology 3 hrs
   G. Technology (3 hrs)
      EME 2040 Technology for Educators 3 hrs
      EME 4503 Instructional Technology 3 hrs
   H. Educational Leadership (6 hrs)
      EDG 4251 Educational Leadership 3 hrs
      EDG 4252 Educational Leadership 3 hrs
      EDG 4253 Educational Leadership 3 hrs
   I. Instructional Strategies (3 hrs)
      TSL 4080 Theory and Practice of Teaching ESL 3 hrs
      Students in Schools
   J. Diversity and Equity (3 hrs)
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
      EDG 4396 Research Methods in Educational Psychology 3 hrs
   K. Multicultural Education (3 hrs)
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
      EDG 4396 Research Methods in Educational Psychology 3 hrs
   L. Social/Political Studies (6 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   M. Professional Ethics (6 hrs)
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
      EDG 4396 Research Methods in Educational Psychology 3 hrs
   N. Clinical Experience (9 hrs)
      EDG 4613 Student Teaching 3 hrs
      EDG 4614 Student Teaching 3 hrs
      EDG 4615 Student Teaching 3 hrs
   O. Internship (6 hrs)
      EDG 4613 Student Teaching 3 hrs
      EDG 4614 Student Teaching 3 hrs
      EDG 4615 Student Teaching 3 hrs
   P. Comprehensive Examination (3 hrs)
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
      EDG 4396 Research Methods in Educational Psychology 3 hrs
   Q. Capstone Project (3 hrs)
      EDG 4331 Advanced Assessment & Evaluation 3 hrs
      EDG 4396 Research Methods in Educational Psychology 3 hrs
4. Internship I Block (7 hrs)
   SSE 4361 Social Science Instructional Analysis 4 hrs
   ESE 3940 Internship I 3 hrs
   ▪ Program Internship I Prerequisites: EDG 4323 and at least 50% of all required social science courses must be completed prior to Internship I with a minimum grade of “C-” in all of these prerequisite courses.
   ▪ SSE 4361 should be taken concurrently with ESE 3940
   ▪ See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (27 hrs)
   EUIH 2000 Western Civilization I 3 hrs
   EUIH 2001 Western Civilization II 3 hrs
   AMH 2010 US History 1492-1877 GEP
   AMH 2020 US History 1877-Present GEP
   SYG 2000 General Sociology CPP
   ECO 2013 Macroeconomics CPP
   ECO 2023 Microeconomics 3 hrs
   GEO 3470 World Political Geography 3 hrs
   Upper Division Non-Western History Elective: (LAH, APH, or ASH prefix courses) 3 hrs
   Upper Division Political Science Electives (POS, INR, or CPO 3/4XXX) 6 hrs
   Upper Division American History Electives (AMH 3/4XXX) 6 hrs

6. Internship II (ESE 4943) (12 hrs)
   ▪ SSE 4361 and at least 80% of all social science courses must be completed before doing Internship II
   ▪ See additional requirements under College of Education, Office of Clinical Experiences
   ▪ Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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

8. Departmental Exit Requirements
   ▪ Achieve a minimum 2.5 GPA in all courses within the major.
   ▪ Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   ▪ Pass all applicable sections of the Florida Teacher Certification Examination.

9. University Minimum Exit Requirements
   ▪ A 2.0 UCF GPA
   ▪ 60 semester hours earned after CLEP awarded
   ▪ 48 semester hours of upper division credit completed
   ▪ 30 of the last 36 hours of course work must be completed in residency at UCF
   ▪ 25% of course work must be completed in residency at UCF
   ▪ Complete the General Education Program, the Gordon Rule, the CLAST and the Common Program Prerequisite Requirements (see Section 2 below for list of courses)

10. Total Program Semester Hours Required 122 hours
    At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Recommended Sequence of Program Courses:
    Freshman Year
    Fall (12 hrs) Spring (15 hrs)
    EDF 2005 3 hrs ESE 2000 3 hrs
    ENC 1101 3 hrs BSC 1005 3 hrs
    MGF 1106 3 hrs EDG 2701 3 hrs
    PSY 2012 3 hrs ENC 1102 3 hrs
    MAC 1105 3 hrs NES 2101 3 hrs
    MAC 2041 3 hrs ESE 2000 3 hrs
    Summer (6 hrs)
    EME 2040 3 hrs
    SPC 1600 3 hrs

    Sophomore Year
    Fall (16 hrs) Spring (15 hrs)
    AMH 2010 3 hrs AMH 2020 3 hrs
    PSC 1121 3 hrs ECO 2023 3 hrs
    PSC 1121L 1 hr GEO 3470 3 hrs
    STA 204C 3 hrs PH 2010 3 hrs
    SYG 2000 3 hrs
    Summer (3 hrs)
    ARH 2050 or THE 2000 or FIL 2400 3 hrs

Junior Year
Fall (15 hrs) Spring (13 hrs)
EDF 4214 3 hrs EDF 4203 3 hrs
EDG 4323 3 hrs Upper Div Political Sci Elect 3 hrs
EUIH 2000 3 hrs (POS 3/4XXX)
Upper Div Non-Western Hist Elect 3 hrs Upper Div Am Hist Elect 3 hrs
(AMH 3/4XXX)
(AMH 3/4XXX)
SSS 4361 4 hrs
ESE 3940 3 hrs

Senior Year
Fall (12 hrs) Spring (12 hrs)
EDF 4603 3 hrs EDF 4203 3 hrs
LAE 4361 3 hrs ESE 2000 3 hrs
TSL 4080 3 hrs Upper Div Am Hist Elect 3 hrs
Upper Div Political Sci Elect 3 hrs
(AMH 3/4XXX)
(POS 3/4XXX)

College of Health and Public Affairs
HPA 204, 407-823-2114
http://www.cohepa.ucf.edu/social/
Director: Mary Van Hook
Undergraduate Program Coordinator: Robin Kohn
E-mail: rkohn@mail.ucf.edu

Admission Requirements - Limited Access
Acceptance to the University does not necessarily constitute admission to the upper division social work program. Separate application to the limited access program must be made to the School of Social Work. Students are admitted to the undergraduate program only in the Summer or Fall terms. To be considered for admission to the program, students must have:

▪ Admission to the University
▪ A 2.5 overall GPA
▪ An AA (from a Florida State Community College) or UCF General Education Program, Gordon Rule, and CLAST
▪ 15 semester hours common program prerequisites (see Section 2 below for list of courses)
▪ This limited access program is work-intensive. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

Personal qualifications reviewed for acceptance include intelligence, initiative, social concern, appreciation for human diversity, dependability, humanitarian interests in helping people and in improving human services as well as college-level reading and writing skills.

Degree Requirements
▪ Students who change degree programs and select this major must adopt the most current catalog
▪ Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Social Work
▪ Students should complete the General Education Program, the CLAST and the Common Program Prerequisite Requirements before beginning the Social Work Program
▪ Students should consult with a school advisor
▪ The courses designated in sections 1 (general education) and 2 (common program prerequisites) below may be taken at a college or university other than UCF, and should usually be com-
A minimum overall GPA of 2.5 is required in all Social Work courses with at least a grade of “C-” in each course.

Students must earn an overall GPA of 2.5 for entry into field education (SOW 4510) and graduation from the Social Work Program.

Students must complete all the requirements listed in 1-11 below.

1. **UCF General Education Program** (36 hrs)
   - A. Communication Foundations 3 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
     - Select MGF 1106 Finite Math
     - Select STA 201C-Principles of Statistics or STA 2023 Statistical Methods I
   - D. Social Foundations 6 hrs
     - Select PSY 2052 and POS 2041
   - E. Science Foundations 6 hrs
     - Select BSC 1005 or MCB 1310
     - Select a listed science course

2. **Common Program Prerequisites**
   - POS 2041 American Government GEP
   - BSC 1005 Biology GEP
   - ECO 2023 Microeconomics
   - PSY 2012 Psychology GEP
   - SYG 2000 Sociology 3 hrs

*See transfer notes

3. **Core Requirements** (45 hrs)
   - SOW 3104 Assisting I: Human Development 3 hrs
   - SOW 3203 Social Welfare and Community Resources 3 hrs
   - SOW 3300 Practice I: Generalist Practice in Social Work 3 hrs
   - SOW 3111 Assessing II: Human Systems 3 hrs
   - SOW 3302 Practice II: Interpersonal Skills in Social Work Practice 3 hrs
   - SOW 3401 Social Work Research 3 hrs
   - SOW 3420 Social Work with Diverse Populations 3 hrs
   - SOW 4730 Documentation in Social Work Practice and Service Programs 3 hrs
   - SOW 4232 Social Welfare Policies and Issues 3 hrs
   - SOW 4341 Micro-Level Roles and Interventions in Social Work 3 hrs
   - SOW 4343 Macro-level Roles and Interventions in Social Work 3 hrs
   - SOW 4510 Field Education 9 hrs
   - SOW 4522 Field Education Seminar 3 hrs

4. **Required Social Work Elective** 3 hrs

5. **Required Principles of Statistics** 3 hrs

6. **Electives** (variable)

7. **Foreign Language or Cultural Diversity Requirement**
   - Choose two of the following suggested courses: ANT 3332, ANT 3363, ANT 2410, ANT 3640, ASH 4404, ASH 4442, CPO 4303, MCB 3401, HUM 3417, HUM 3419, JST 3401, JST 3402, JST 3820, LAH 3130, LAH 3200, LAH 3400, LAH 3470, AMH 3561, AMH 3571, AMH 3586, ANT 3302, ANT 3311, SOP 3724, SOP 3742, SPA 3621, SYD 3700, EDG 2701, HSC 3593C, HUM 2234 or see advisor for more options.

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 hours)
   - A minimum overall GPA of 2.5 with at least a grade of “C-” (1.75) or higher in each social work course.

10. **University Minimum Exit Requirements**
   - A UCF GPA of 2.0
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF

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

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

**Related Programs:** Criminal Justice, Psychology, Public Administration, Sociology.

**Aging Studies Certificate:** In recognition of the special needs of the elderly citizens of Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education or art education. All students must contact the Coordinator for planning their internship.

**Children’s Services Certificate:** This certificate is open only to students in the undergraduate social work program (BSW). The Children’s Services Certificate is designed to prepare students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

**Addictions Certificate:** This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. 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

<table>
<thead>
<tr>
<th>Tentative Course Schedule for Entering Freshmen</th>
<th>Fall</th>
<th>Spring</th>
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<tr>
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<td>MGF 1106</td>
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<td>2 or REL 2300 or PHI 2100</td>
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**UCF Degree Programs**

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237
SOCIOLOGY (B.A.)

College of Arts and Sciences
Department of Sociology and Anthropology, PH 403
407-823-2227
http://www.cas.ucf.edu/soc_anthro
E-mail: sociology@ucf.edu
J. Corzine, 407-823-2227

The Sociology curriculum emphasizes critical examination of various components of society. The purpose of the curriculum is to increase students' social awareness and their ability to employ a sociological perspective to interpret social institutions and behavior.

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology and Anthropology Department.
- Students must maintain a UCF GPA of at least 2.0 in all courses used for the major.
- Students must have a "C" (2.0) or higher in all core courses.
- Co-op credit cannot be used in this major.
- Students should consult annually with a departmental advisor.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   - 9 hrs
B. Cultural and Historical Foundations
   - 9 hrs
C. Mathematical Foundations
   - Select MAC 1105 College Algebra (or higher)
   - 3 hrs
   - Select STA 2014C Principles of Statistics
   - 3 hrs
D. Social Foundations
   - Select one: ECO 2013, ECO 2023, POS 2041
   - 3 hrs
   - Select SYG 2000 General Sociology
   - 3 hrs
E. Science Foundations
   - 6 hrs

2. Common Program Prerequisites (variable)

(It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

3. Core requirements (18 hrs)

   - 2000 General Sociology
   - GEP
   - SYD 2010 Social Problems
   - 3 hrs
   - SYA 3400 Research Methods and Statistics
   - 4 hrs
   - SYA 4300 Research Methods
   - 4 hrs
   - SYA 4450 Data Analysis
   - 4 hrs
   - SYA 3110 Development of Social Thought
   - 3 hrs

4. Restricted Electives (27 hrs)

Select from the following

- SYA 3120 Modern Sociological Thought
- SYA 4650C Applied Sociology
- SYA 5625 Prosereas
- SYA 5937 Advanced Population
- SYD 3410 Urban Sociology
- SYD 3700 Race & Ethnic Minorities in the US
- SYD 3800 Sex Roles in Modern Society
- SYD 4020 Population
- SYG 2000 General Sociology
- SYG 2010 Social Problems
- SYO 3000 Modern Sociology
- SYO 3360 Social Organization & Human Relations
- SYO 3410 Sociology of Mental Illness
- SYO 3530 Social Stratification
- SYO 4100 Family Trends
- SYO 4200 Sociology of Religion
- SYO 4250 Sociology of Education
- SYO 4300 Political Sociology
- SYO 4400 Medical Sociology
- SYP 3300 Collective Behavior
- SYP 3400 Social Change
- SYP 3510 Sociology of Deviant Behavior
- SYP 3511 Sociology of Murder
- SYP 3520 Criminology
- SYP 3530 Juvenile Delinquency
- SYP 3540 Sociology of Law
- SYP 3551 Sociology of Alcoholism
- SYP 3562 Socio Perspect on Domestic Violence
- SYP 3602 Sociology of Popular Music
- SYP 3630 Sociology of Popular Culture
- SYP 3650 Sociology of Sport
- SYP 4000 Sociological Social Psychology
- SYP 4004 Constructing Social Issues
- SYP 4323 Social Systems and Diversity
- SYD 4010 Environmental Sociology
- SYP 4200 Sociology of Violence
- SYP 4521 CriminalVictimization in Society
- SYP 4536 Gangs and Society
- SYP 4550 Sociology of Drug Abuse
- SYP 4730 Sociology of Aging
- SYP 4734 Minority Aging
- SYD 4810 Women in Contemporary Society
- SYD 4813 Women and Social Diversity
- SYP 5525 Sociological Criminology
- SYP 5564 Seminar on Domestic Violence

5. Departmental Exit Requirements

- A minimum of "C" (2.0) in all core courses
- Students will be required to take a standard exit exam.

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to 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.

In addition, either a third semester/proficiency or an approved enhancement course. A list of approved enhancement courses is available from the department.

7. Electives (variable)

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

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP.
UCF Degree Programs

Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

Related Programs: Anthropology, Criminal Justice

Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Canadian Studies, Judaic Studies, Latin American Studies, Russian Area Studies, Sociology, and Women’s Studies

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

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
- Math test See catalog
- 0

Fall
- ENC 1101* Composition I
- MAC 1105 College Algebra
- SYG 2000 General Sociology
- SPN 1120* req# Lang/Elect
- 0

Sophomore Year
- Fall
- ANT 2511* req# 1E2-GEP
- EUH 2001* req# 1B1-GEP
- SYD 3700* req# 4-ResElect
- Elective* Check restrictions
- SPN 1121* req# Lang/Elect

Winter
- ENC 1102* Composition II
- STA 2014C Pnin of Statistics
- SYV 2010 Social Problems
- SPN 1121* req# Lang/Elect
- 0

Junior Year
- Fall
- AND 2101* req# 1D1-GEP
- SYA 3400 Res Methods Stat
- SYD 3410* req# 4-ResElect
- Elective* Check restrictions
- Elective* Check restrictions

Spring
- ENC 1102* Composition II
- REL 2300* req# 1B2-GEP
- SYA 4400 Data Analysis
- SYD 4100* req# 4-ResElect
- Elective* Check restrictions

Senior Year
- Fall
- SYA 3120* req# 4-ResElect
- SYD 3520* req# 4-ResElect
- Elective* Check restrictions
- Elective* Check restrictions

Winter
- SYP 3510* req# 4-ResElect
- SYP 4000* req# 4-ResElect
- Elective* Check restrictions
- Elective* Check restrictions

SPANISH (B.A.)
College of Arts and Sciences
Department of Modern Languages & Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
E-Mail: modernlanguage@ucf.edu
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 sub-divide select classes.

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in Spanish must be taken at the 3000 level or above.
- At least 6 of the 36 Spanish credits must be at the 4000 level.
- At least 30 hours must be taken in Modern Language courses taught in Spanish.
- Students must earn at least a “C” (2.0) in each upper division Spanish course.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major.
- Students must see their departmental advisor to obtain proper counseling and have their schedule approved before registering.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program: 36 hrs

   A. Communication Foundations
      - 9 hrs
   B. Cultural and Historical Foundations
      - 9 hrs
   C. Mathematical Foundations
      - 6 hrs
   D. Prefer STA 1060C Statistics Using Excel or equivalent
      - 3 hrs
   E. Select MGF 1106 Finite Mathematics (may substitute a higher level math)
      - 3 hrs
   F. Social Foundations
      - 6 hrs
   G. Science Foundations
      - 6 hrs

2. Common Program Prerequisites: 15 hrs

   A. SPN 1120* Elem Spanish Lang & Civ I
      - 4 hrs
   B. SPN 1121* Elem Spanish Lang & Civ II
      - 4 hrs
   C. SPN 2231* Intern Spanish Lang & Civ II
      - 3 hrs
   D. SPN 2231* Intern Spanish Lang & Civ II
      - 3 hrs
   E. May be met by proficiency test or completion of SPN 2231

3. Core requirements: 18 hrs

   A. Spanish courses
      - 9 hrs
   B. Culture and Civilization
      - 3 hrs
   C. Spanish literature beyond the survey level
      - 6 hrs
   D. Students who change degree programs and select this major must adopt the most current catalog.
   E. Students who change degree programs and select this major must adopt the most current catalog.
   F. Students who change degree programs and select this major must adopt the most current catalog.
   G. Students who change degree programs and select this major must adopt the most current catalog.
   H. Students who change degree programs and select this major must adopt the most current catalog.
   I. Students who change degree programs and select this major must adopt the most current catalog.
   J. Students who change degree programs and select this major must adopt the most current catalog.
   K. Students who change degree programs and select this major must adopt the most current catalog.
   L. Students who change degree programs and select this major must adopt the most current catalog.
   M. Students who change degree programs and select this major must adopt the most current catalog.
   N. Students who change degree programs and select this major must adopt the most current catalog.
   O. Students who change degree programs and select this major must adopt the most current catalog.
   P. Students who change degree programs and select this major must adopt the most current catalog.
   Q. Students who change degree programs and select this major must adopt the most current catalog.
   R. Students who change degree programs and select this major must adopt the most current catalog.
   S. Students who change degree programs and select this major must adopt the most current catalog.
   T. Students who change degree programs and select this major must adopt the most current catalog.
   U. Students who change degree programs and select this major must adopt the most current catalog.
   V. Students who change degree programs and select this major must adopt the most current catalog.
   W. Students who change degree programs and select this major must adopt the most current catalog.
   X. Students who change degree programs and select this major must adopt the most current catalog.
   Y. Students who change degree programs and select this major must adopt the most current catalog.
   Z. Students who change degree programs and select this major must adopt the most current catalog.

4. Upper Division Restricted Electives: 21 hrs

   a. Select one of the following
      - 3 hrs
   b. Spanish literature beyond the survey level
      - 6 hrs
   c. Culture and Civilization
      - 3 hrs
   d. Spanish courses
      - 9 hrs

5. Departmental Exit Requirements:

   a. Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division Spanish courses
   b. 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.
   c. Computer Competency met by CGS 1060C or equivalent

6. Spanish courses
   - 9 hrs

7. Electives (variable)

Select primarily from upper level courses, with departmental advi-
UCF Degree Programs

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

Total Semester Hours Required: 120 hours

Related Programs: French, Modern Language Combination
Related Minors: French, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses.
   - Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.
   - Native speakers, or students who have received advanced education in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.

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
   - ANT 2005* req# 1D2-GEF 3
   - ENC 1101 Composition I 3
   - MGF 1105* req# 1C1-GEF 3
   - SPN 1120* req# 2-CPP 4
   - Elective* Check restrictions 3

Spring
   - ENC 1102 Composition II 3
   - STA 1060C* req# 1C2-GEF 3
   - SPN 1121* req# 2-CPP 4
   - Elective* Check restrictions 4

Sophomore Year
Fall
   - AMH 2010* req# 1B1-GEF 3
   - ARH 2050* req# 1B3-GEF 3
   - POS 2041* req# 1D1-GEF 3
   - PSC 1121* req# 1E1-GEF 3
   - SPN 2230* req# 2-CPP 3

Spring
   - BSC 1005* req# 1E2-GEP 3
   - MUL 2010* req# 1B2-GEP 3
   - AMH 2010 U.S. History 1492-1877 3
   - AMH 2020 U.S. History 1877-Present 3
   - PHI 2010 Introduction to Philosophy 3

Junior Year
Fall
   - SPN 3300 Adv Spa Gram Comp 3
   - SPN 3420 Spanish Comp 3
   - SPN 3760 Adv Spa Oral Comm 3
   - Elective* Check restrictions 3
   - Elective* Check restrictions 3

Spring
   - SPN 3101* req# 3-Core 3
   - SPN 4780* req# 4a-ResElec 3
   - SPN 3141* req# 4d-ResElec 3
   - Elective* Check restrictions 3
   - Elective* Check restrictions 3

Senior Year
Fall
   - SPN 4520* req# 4e-ResElec 3
   - SPN 5705* req# 4d-ResElec 3
   - Elective* Check restrictions 3
   - Elective* Check restrictions 3

Spring
   - SPN 4381* req# 4b-ResElec 3
   - SPN 4410* req# 4d-ResElec 3
   - Elective* Check restrictions 3
   - Elective* Check restrictions 3

SPORTS AND FITNESS (B.S.)
College of Education
Department of Teaching and Learning Principles, ED209
http://pegasus.cc.ucf.edu/~sportfit/
Program Coordinator: Dr. Michael Kehoe
UCF at South Lake, Bldg 2, Room 316, 352-536-2179
E-mail: mkehoe@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 prerequisite courses.

Degree Requirements
   - Students should consult with an advisor on a regular basis.
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students should see an advisor prior to selecting this major, and at least annually thereafter.
   - Students must earn at least a "C-" (1.75) in each required course and maintain an overall GPA of at least 2.0.
   - Prior to participation in Sports and Fitness Practicum I and Practicum II listed below, students must have achieved admission into one of the areas of specialization listed and described below.
   - Students must meet with their advisor prior to enrollment in Sports and Fitness Practicum I and Practicum II to complete departmental approval process of the organization with which they will be working.

1. UCF General Education Program 36 Hours
   A. Communication Foundations (9 hrs)
      - ENC 1101 Composition I 3
      - ENC 1102 Composition II 3
      - SPC 1600 Fundamentals of Oral Comm 3
   B. Cultural-Historical Foundations (9 hrs)
      - AMH 2010 U.S. History 1492-1877 3
      - AMH 2020 U.S. History 1877-Present 3
      - PHI 2010 Introduction to Philosophy 3
   C. Mathematical Foundations (6 hrs)
      - MGF 1106 Finite Mathematics 3
      - STA 1060C Basic Stat using Microsoft Excel or STA 2014C Principles of Statistics
      - Select one:
        - STA 1060C Basic Stat using Microsoft Excel or STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
      - POS 2041 American National Government 3
      - PSY 2012 General Psychology 3
   E. Science Foundations (6 hrs)
      - PSC 1121 Physical Science 3
      - BSC 2010C Biology I 4

2. Sports and Fitness Lower Division (7 hrs)
   - PET 2622C Human Injuries 3
   - ZOO 3736C Exercise Physiology Anatomy 4

3. Lower Division Electives (7 Hours)
   - Selected Electives (Prefixes: PEL, PEM, PEO, PET)

4. Sports & Fitness Core (27 Hours)
   - PET 3137 Concepts and Practices in Sports and Fitness 3
   - PET 3408 Public Relations in Sports and Fitness 3
   - PET 3462 Fiscal and Facilities Issues in Sports and Fitness 3
   - PET 3493 Sports and Ethics 3
   - PET 4215 Motivational Aspects of Athletic Performance 3
   - PET 4312 Biomechanics 3
   - PET 4401 Administration & Evaluation 3
   - PET 4491 Legal Issues in Sports and Fitness 3
   - PET 4650 Fitness Assessment and Exercise 3

5. Specialization (12 Hours)
   - Select One Option:
     Option A: Coaching
     - PET 3765 Coaching Theory 3
     - PET 4763 Coaching Methods and Principles 3
     - PET 4625 Human Injuries - Mechanisms and Prevention 3
Coaching Specific (choose one)  
PEO 2624 Coaching Basketball  
PEO 3324 Coaching Volleyball  
PEO 3644 Coaching Football

Students selecting the Coaching Specialization must register and complete the State of Florida Coaching Certification Process or an equivalent professional certifying body.

Option B: Fitness
PET 3361 Nutrition for Sports and Fitness 3 hrs  
PET 3776 Fitness and Conditioning Concepts 3 hrs  
PET 4083C Practical Fitness Training 3 hrs  
PET 4625 Human Injuries - Mechanisms and Prevention 3 hrs

Students selecting the Fitness Specialization must register for a Professional Fitness Certification through the American Council on Exercise (ACE) or an equivalent professional certifying body.

6. Upper Division Elective  
(3 hours)  
Approved by advisor

7. Sports & Fitness Practica  
(18 Hours)  
PET 4925 Sports and Fitness Practicum I 6 Hours  
PET 4926 Sports and Fitness Practicum II 12 Hours

During the final year of the program, students will complete Practicum requirements with a Sports or Fitness organization. These experiences will provide the student with actual professional experiences and practical hands-on knowledge of the career in which they have chosen to work. The design of Practicum I will be that of an observational and analytical role. During Practicum II, the student will be given responsibilities and assignments through the organization in which they have been placed and will carry an active role in the operation of the organization.

In both Practicum I and Practicum II, the student will be working directly with a Placement Coordinator in the organization and their University Supervisor. The University Supervisor will maintain periodic contact with the Placement Coordinator to check performance status. The Sports and Fitness program has developed tremendous opportunities through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organizations. Students will have the option to arrange their own practicum experience if they 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. There should be no question of the performance of the students during their practicum experiences, 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 student may be removed from their Practicum experience.

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

9. Exit Requirements
- A minimum overall GPA of 2.5.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event.
- Successful completion of 18 hours of Practicum Experiences.

10. Total Program Semester Hours Required  
(120 hours)

11. Recommended Four-Year Sequence of Courses

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<tr>
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<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
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<td>ENE 2040</td>
<td>3 hrs</td>
<td>AMH 2020</td>
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<tr>
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<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
<td>AC 1105</td>
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<td>MGF 1106</td>
<td>3 hrs</td>
<td>PSC 1121</td>
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<td>SPC 1600</td>
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<th>Fall</th>
<th>(14 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
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<tbody>
<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>STA 1065C or STA 2014C</td>
<td>3 hrs</td>
<td>POS 2041</td>
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<td>ZOO 3736C</td>
<td>4 hrs</td>
<td>AMH 2020</td>
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<td>Specialization electives</td>
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<td>Option A (Coaching):</td>
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STATISTICS (B.S.)  
College of Arts and Sciences  
Department of Statistics and Actuarial Science, CC II  
212, 407-823-2289  
http://www.cas.ucf.edu/statistics  
E-mail: statistics@ucf.edu  
Nizam Uddin, 407-823-2692

Admission Requirements
- 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.

<table>
<thead>
<tr>
<th>Degree Requirements</th>
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<tbody>
<tr>
<td>Students who change degree programs and select this major must adopt the most current catalog.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.</td>
</tr>
<tr>
<td>Students must earn at least a “C” (2.0) in each STA course.</td>
</tr>
<tr>
<td>A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.</td>
</tr>
<tr>
<td>Co-op or internship credit cannot be used in this major.</td>
</tr>
<tr>
<td>Students should consult with a departmental advisor.</td>
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</table>

Courses designated in (1) General Education Program and 2) Common Program Prerequisites are usually completed in the first 60 hours.
1. **UCF General Education Program (39 hrs)**
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 7 hrs
   - Select MAC 2311 Calculus I 4 hrs
   - Select STA 2023 Statistical Methods I 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations
     - Select BSC 2010C Biology I 4 hrs
     - Select PHY 2053C College Physics or
     - CHM 2045C Chemistry Fundamentals I 4 hrs

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
   - COP 3223 Intro to Programming in C* 3 hrs
   - *may substitute an approved programming language course
   - a. Select one course 4 hrs
   - b. Select one course 3 hrs
   - c. Select three from among the following: 9 hrs
   - d. Select two courses and associated labs (incl. 4 hrs GEP) 4 hrs
   - e. Select one course 3 hrs
   - STA 3096 Statistical Graphics
   - STA 4173 Statistical Methods
   - STA 4222 Statistical Methods
   - STA 4502 Statistical Methods
   - STA 4504 Actuarial Statistics
   - STA 4604 Statistical Quality Control
   - STA 4852 Applied Time Series
   - e. Select two courses and associated labs (incl. 4 hrs GEP) 4 hrs
   - MAC 2233, MAC 2253, all MAE courses, and M HF 4404 may not be used

4. **Restricted Electives (6 hrs)**
   - Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science 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.
     - COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
     - BSC 2010C: any laboratory BSC, CHM, or PHY course
   - Courses taken at community colleges do not substitute for Upper Division courses.

5. **Departmental Exit Requirements**
   - Earn a grade of "C" (2.0) or better in each STA course
   - Computer Competency met by STA 4102
   - STA 2023 Statistical Methods I
   - STA 4102 Computer Process of Stat Data
   - STA 4163 Statistical Methods II
   - STA 4164 Statistical Methods III
   - STA 4321 Statistical Theory I
   - STA 4322 Statistical Theory II
   - COT 4500 Numerical Calculus
   - MAC 2313 Calculus with Analy Geo III
   - ENC 3241 Writing for the Tech Professional
   - COP 3223 Intro to Programming in C*

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

**Total Semester Hours Required:** 120 hours

**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.

**Related Programs:**
Mathematics, Mathematics Education, Actuarial Science Track

**Related Minors:**
Statistics, Mathematics

**Transfer Notes:**
Courses taken at community colleges do not substitute for Upper Division courses.

**STATISTICS - ACTUARIAL SCIENCE TRACK (B.S.)**
See Actuarial Science (B.S.)
EVT 3312 Course Const Health Occ Ed
EVT 3062 Professional Role Voc Ed Teacher 3 hrs
EVT 3365 Gen Method/Test Eval 3 hrs

3. Program Core Requirements (27 hours)
EVT 3369 Gen Method/Test Eval 3 hrs
EVT 3062 Professional Role Voc Ed Teacher 3 hrs
EVT 3312 Course Const Health Occ Ed 3 hrs
EVT 3371 Course Const Industrial Ed 3 hrs
EVT 3502 Special Needs Voc Ed Students 3 hrs
EVT 4085 Princip/Prac Voc Ed 3 hrs
EVT 4388 Adv Teaching/Techniques in Voc Ed 3 hrs
EVT 3367 EvalVocation Training 3 hrs
EVT 4189 Curr Dev of Ind Training 3 hrs
AEB 4382 Teaching Adult Learners 3 hrs

4. Occupational Specialization Requirements (30 hrs)
Students must complete an area of specialization through one of the following routes:
- Occupation-specific courses
- Recognized occupational license/registration/certification
- Occupational examination
- Sufficient documentation demonstrating comparable occupational expertise equivalent to 30 semester hours of credit. Appropriate documentation must be provided to advisor before this will be submitted for credit.

5. Upper Division Electives (6 hrs)
(with advisor’s approval)
UniverSity of Central Florida

A U N I V E R S I T Y OF C E N T R A L FLORIDA

Track 2: Though not a state-approved teacher education program, this track is designed for students seeking state level certification from the Florida Department of Education in Business Education (grades 6-12).

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   - ENC 1101 Composition I 3 hrs
   - ENC 1102 Composition II 3 hrs
   - SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
   - AMH 2010 U.S. History 1492-1877 3 hrs
   - AMH 2020 U.S. History 1877-Present 3 hrs
   - PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
   - MGF 1106 Finite Mathematics 3 hrs
   - STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations (6 hrs)
   - ECO 2013 Macroeconomics 3 hrs
   - PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
   - PSC 1121 Physical Science 3 hrs
   - Select one: 3 hrs
   - ANT 2511 The Human Species or
   - BSC 1005 Biological Principles
   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (31 hrs)
   A. Communications (9 hrs)
   - ENC 1101 Composition I GEP
   - ENC 1102 Composition II GEP
   - SPC 1600 Fundamentals of Oral Communication GEP
   B. Humanities (6 hrs)
   - PHI 2010 Introduction to Philosophy GEP
   - Select one: 3 hrs
   - ARH 2050 History of Western Art I or
   - ARH 2051 History of Western Art II or
   - MUL 2010 Enjoyment of Music or
   - THE 2000 Theatre Survey or
   - FIL 2400 History of Motion Pictures
   C. Mathematics (9 hrs)
   - MAC 1105 College Algebra 3 hrs
   - MGF 1106 Finite Mathematics GEP
   - One of the following (per GEP) GEP
   - STA 1060C Basic Statistics using MS Excel or
   - STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
   - AMH 2010 U.S. History 1492-1877 GEP
   - AMH 2020 U.S. History 1877-Present GEP
   - ECO 2013 Macroeconomics GEP
   - PSY 2012 General Psychology GEP
   E. Science (9 hrs + lab)
   - PSC 1121 Physical Science GEP
   - One of the following (per GEP) GEP
   - Select one: 3 hrs
   - ANT 2511 The Human Species or
   - BSC 1005 Biological Principles
   - AST 2002 Astronomy
   - GEO 1200 Physical Geography
   - GLY 1030 Geology and its Applications
   - One associated science lab: 1 hr
   - BSC 1005L Biological Principles Laboratory
   - PSC 1121L Physical Science Laboratory
   F. Education Courses (9 hrs)
   - EDF 2005 Introduction to Education 3 hrs
   - EDG 2701 Teaching Diverse Populations 3 hrs
   - EMS 2940 Technology for Educators 3 hrs
   - G. Diversity Courses (3 hrs)
   - Select one: 3 hrs
   -选 one: 3 hrs
   - H. Other Program Prerequisites (15 hrs)
   - ACB 2021 Principles of Financial Accounting 6 hrs
   - ACC 2071 Principles of Managerial Accounting 6 hrs
   - ECO 2013 Macroeconomics GEP
   - ECO 2023 Microeconomics 3 hrs
   - Elective in Administration (see advisor) 3 hrs

3. Education Core Requirements (12 hrs)
   - EVT 4368 3 hrs
   - ADE 4382 3 hrs
   - Upper Division Elective 3 hrs
   - Upper Division Elective 3 hrs
   - Spring 5 hrs
   - EVT 4941 12 hrs

4. Program Core Requirements (21 hrs)
   - EVT 3365 Gen Method/Test Eval 3 hrs
   - EVT 3862 Professional Role Voc Ed Teacher 3 hrs
   - BTE 4410 Course Construction in Business Ed 3 hrs
   - EVT 3502 Special Needs Voc Ed Students 3 hrs
   - EVT 4065 PracPrc Voc Ed 3 hrs
   - EVT 4368 Adv Teaching/Techniques in Voc Ed 3 hrs
   - EVT 3867 Eval Vocation Instruction 3 hrs

5. Occupational Specialization Requirements (15 hrs)
   Total occupational specialization requirement is 30 SH, 15 of which are met by courses selected under section H of common program prerequisites. An additional 15 SH of upper level courses are required to fulfill this requirement. See advisor.

6. Directed Field Experience (12 hrs)
   - Occupational specialization and all course requirements must be completed before directed field experience
   - Satisfactory completion of directed field experience requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

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

8. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   - Pass all applicable sections of the Florida Teacher Certification Examination

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

10. Total Program (Track 2) Semester Hours Required: 127 hrs
    At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Recommended Sequence of Program Courses for Track 2:
    Freshman Year
    - Fall (12 hrs)
    - Spring (6 hrs)
    - Summer (6 hrs)
    - Sophomore Year
    - Fall (15 hrs)
    - Spring (5 hrs)

244 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
THEATRE STUDIES (B.A.)

College of Arts and Sciences
Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu
E-mail: ktollefs@mail.ucf.edu

Kristina Tollefson, 407-823-0233
http://www.theatre.ucf.edu

Admission Requirements

- The departmental faculty evaluates, via an interview, students who desire to become BA majors. For complete information, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu.
- All students must submit a three letters of recommendation, and transcripts of previous college work at the time of interview.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must maintain a minimum “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 regularly scheduled courses taken from the UCF Theatre Department.
- All theatre students must participate, in some capacity, in one of the main-stage productions during a minimum of four semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped from the major.
- Courses designated in 1 (General Education Program) are usually completed in the first 90 hours.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- Courses designated in 3 (Core requirements) are usually completed in the first 90 hours.
- Courses designated in 4 (Restricted Electives) are usually completed in the first 90 hours.

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 one course from 1.B.2 list
- 3 hrs

C. Mathematical Foundations
- 6 hrs
- Select MGF 1106 Finite Mathematics
- (may substitute a higher level math)
- 3 hrs
- Select STA 1060C Statistics Using Excel
- 3 hrs

D. Social Foundations
- 6 hrs

E. Science Foundations
- 6 hrs

2. Common Program Prerequisites (9 hrs)

THE 2020* Survey of Theatre for majors
- 3 hrs

THE 2XX** Script Analysis
- 3 hrs

THE 2190* Theatre Production/Perform I
- 1 hr

THE 2200* Theatre Production/Perform V
- 1 hr

THE 2210* Technical Theatre Production
- 3 hrs

TPP 2190* Theatre Production/Perform I
- 1 hr

*See Transfer Notes for possible substitutes

3. Core requirements (18 hrs)

THE 2110 Theatre History I
- 3 hrs

THE 2111 Theatre History II
- 3 hrs

THE 3305 Dramatic Literature I
- 3 hrs

THE 3306 Dramatic Literature II
- 3 hrs

TPP 2101 Fundamentals of Acting
- 3 hrs

TPP 3310C Directing I
- 3 hrs

4. Restricted Electives (16 hrs)

Select 16 hours from the following

THE 2271 Performance Studies
- 3 hrs

THE 2280 Commonality within Cultural Diversity
- 3 hrs

THE 3082 Theatre Careers
- 3 hrs

THE 3090 Musical Theatre Survey
- 3 hrs

THE 4093 Theatre Production/Perform IV
- 1 hr

THE 4094 Theatre Production/Perform V
- 1 hr

THE 4096 Theatre Production/Perform VI
- 1 hr

THE 4097 Theatre Production/Perform VII
- 1 hr

THE 4372 Drama of Tennessee Williams
- 3 hrs

THE 4375 Contemporary Theatre Practice
- 3 hrs

TPA 2248C Makeup/Technique
- 2 hrs

TPA 3043C Costume History I
- 3 hrs

TPA 3044C Costume History II
- 3 hrs

TPP 3195 Theatre Studio/Tech/Design
- 3 hrs

TPP 3197 Summer Theatre Studio/Tech/Design
- 3 hrs

TPP 3199 Stage Management
- 3 hrs

TPP 4200 Theatre Management
- 3 hrs

TPP 3103 Intermediate Acting
- 3 hrs

TPP 3197 Summer Theatre Performance
- 3 hrs

TPP 3952 Studio Performance
- 3 hrs

TPP 4311* Advanced Directing
- 3 hrs

Any DAA courses with instructor and departmental approval
- 2-8 hrs

THE 3930* Independent Study
- 1-9 hrs

THE 4912* Undergraduate Research
- 3 hrs

Honor's in the Major Directed Readings and Thesis*
- 3-6 hrs

Other THE, TPA, or TPP courses as approved by the department
- 3-6 hrs

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Theatre course
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Computer Competency met by STA 1060C
- 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.
UCF Degree Programs

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 hours 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 hours

Related Programs: Art, Film, Music, Theatre BFA
Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:
- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits.
- University minimum Upper Division credit requirement must still be met.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and may still need to be taken. 2XXX (Script Analysis): may use THE 2300 or THE 3305
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TTP 2190: may use TTP 1110
- TTP 2201: may use TPA 2200 or TPA 2210

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
MGF 1100* req# 1C1-GEP 3
THE 2020 Sur of The for Maj 3
THE 2XXX Script Analysis 3
TPA 2201 Tech Theatre Prod Audition See catalog 0
Spring
ENG 1102 Composition II 3
STA 1060C Stat Using Excel 3
TPP 2101 Fund of Acting 3
THE 3230* req# 4-ResElect 3
Minor* req# 7-Minor 3
Audition See catalog 0
Sophomore Year
Fall
ANT 2511* req# 1E2-GEP 3
HUM 2211* req# 1B1-GEP 3
PSC 1121* req# 1E1-GEP 3
THE 2090 The Prod Per I 3
THE 3110 Theatre History I 3
Spring
FIL 2400 His of Motion Pict 3
THE 3111 Theatre History II 3
THE 3306 Dramatic Lit II 3
Minor* req# 7-Minor 3
Minor* req# 7-Minor 3
Elec/Check restrictions 3
THE 3035 Dramatic Lit I 3
Junior Year
Fall
ANT 2000* req# 1D2-GEP 3
COM 1000* req# 1A3-GEP 3
TPA 2290 The Prod Per I 1
TPP 3310C Directing I 3
THE 2271* req# 4-ResElect 3
THE 3082* req# 4-ResElect 3
Spring
POS 2041* req# 1D1-GEP 3
THE 3240* req# 4-ResElect 3
Minor* req# 7-Minor 3
Minor* req# 7-Minor 3
Elec/Check restrictions 3
Elec/Check restrictions 3
Elec/Check restrictions 3
SPN 1121* req# Lang/Elect 4
Audit check See catalog 0
Senior Year
Fall
TPP 2190 The Prod Per I 1
THE 4093* req# 4-ResElect 3
Minor* req# 7-Minor 3
Elec/Check restrictions 3
Elec/Check restrictions 3
SPN 1120* req# Lang/Elect 4
Audit check See catalog 0
Spring
THE 4372* req# 4-ResElect 3
Exit exam See catalog. 0
Minor* req# 7-Minor 3
Minor* req# 7-Minor 3
Elec/Check restrictions 3
Elec/Check restrictions 3
THEATRE (B.F.A.)
College of Arts and Sciences
Department of Theatre, UCF 180; 407-823-2862
http://www.theatre.ucf.edu
E-mail: ktollefs@mail.ucf.edu
Kristina Tollefson, 407-823-0233
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/tech. 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 Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- An Acting candidate must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes. See www.theatre.ucf.edu for details and to schedule an appointment.
- Design/tech 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. Three-dimensional pieces should be submitted in photo format. For details, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu.
- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of audition or interview.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than "C" (2.0) will not be counted
- Continuation in the BFA program requires a positive annual evaluation
- Co-op credit cannot be used in this major
- Students must consult with a departmental advisor before registering each semester
- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF
Theatre Department

- All BFA students should participate, in some capacity, on two UCF affiliated productions during both Fall and Spring semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure will result in being dropped as a major.
- All BFA students must include a participation credit course during every semester.
- 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. It is not designed for transfer students. Transfer students may audition and be admitted, but they should consult with the 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 strongly encouraged to take ARH 2050 and ARH 2051 as electives as early in their career as possible.

- 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 8 hrs
   - B. Cultural and Historical Foundations
     - Select one course from B.1 list 3 hrs
     - Select THE 2020 Survey of Theatre for Majors 3 hrs
     - Select ARH 2051 History of Western Art II 3 hrs
   - Mathematical Foundations
     - Select MGF 1106 Finite Mathematics 3 hrs
     (may substitute a higher level math)
     - Select STA 1060C Statistics Using Excel 6 hrs
   - D. Social Foundations
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)
   - THE 2020* Survey of Theatre for majors
   - THE XXX* Script Analysis 3 hrs
   - THE 2090* Theatre Production/Performance I 1 hr
   - TPA 2290* Theatre Production/Performance I 1 hr
   - TPA 2210* Stagecraft I 3 hrs
   - TPI 2190* Theatre Production/Performance I 1 hr
   *See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)
   - TPP 2110C Acting I - Introduction 3 hrs
   - THE 3305 Dramatic Literature I 3 hrs
   - THE 3306 Dramatic Literature II 3 hrs
   - THE 3110 Theatre History I 3 hrs
   - THE 3111 Theatre History II 3 hrs
   - TPP 3110C Directing I 3 hrs
   - TPA 2210 Stagecraft I 3 hrs

4A. Specialization: select one area (66 hrs)

- Acting Specialization
  - TPP 2170C Acting II - Fundamentals 3 hrs
  - DAA 2200C Ballet I 2 hrs
  - TPP 2710C Voice Production I 2 hrs
  - TPP 2172C Acting III - Characterization 3 hrs
  - TPP 4191 Thea, Prod./ Perf. IV 1 hr
  - TPP 4194 Thea, Prod./ Perf. V 1 hr
  - DAA 2201C Ballet II 2 hrs
  - TPP 2812C Stage Combat 2 hrs
  - TPP 3257 Music Thea. Voice I 2 hrs
  - TPP 3259 Musical Theatre Voice II 2 hrs
  - TPP 3711C Voice Production II 2 hrs
  - TPP 3712C Voice Production III 2 hrs
  - TPP 3730C Voice Production IV 2 hrs
  - TPP 4140C Acting IV - Studio 3 hrs
  - TPP 4142C Acting V - Verse 3 hrs
  - TPP 4285C Acting for TV/Film 3 hrs
  - TPP 4311C Period Movement 2 hrs
  - TPP 4940 Theatre Performance Internship 6 hrs
  - TPP 2248C Makeup Techniques 2 hrs
  - TPA 3228 Theatre Careers for Performance 3 hrs
  - DAA 2570C Jazz Dance I 2 hrs

4B. Restricted Electives (see specializations) (16 hrs)

- Stage Management Specialization
  - TPA 2211 Stagecraft II 3 hrs
  - TPA 2220 Stage Lighting 3 hrs
  - TPA 2000C Theatre Design Basics 3 hrs
  - TPA 2071C Theatre Rendering 3 hrs
  - TPA 2034C Costume Design 3 hrs
  - TPA 3195 Theatre Studio Tech 3 hrs
  - TPA 4294 Thea, Prod./ Perf. IV 1 hr
  - TPA 4295 Thea, Prod./ Perf. V 1 hr
  - TPA 3601 Stage Management 3 hrs
  - TPA 3260 Sound Design for Theatre 3 hrs
  - TPA 4940 Design/Tech Internship 6 hrs
  - TPA 3401 Theatre Careers for Tech/Management 3 hrs
  - TPA 3250 CADD for Theatre 3 hrs

- Design and Technology Specialization
  - TPA 2211 Stagecraft II 3 hrs
  - TPA 2220 Stage Lighting 3 hrs
  - TPA 2000C Theatre Design Basics 3 hrs
  - TPA 2071C Theatre Rendering 3 hrs
  - TPA 3195 Theatre Studio Tech 3 hrs
  - TPA 3221 Lighting Design 3 hrs
  - TPA 3195 Summer Theatre Tech 3 hrs
  - TPA 3260 Sound Design for Theatre 3 hrs
  - TPA 3250 Tech for Theatre 2 hrs
  - TPA 3251 Advanced CADD for Theatre 2 hrs
  - TPA 4294 Thea, Prod./ Perf. IV 1 hr
  - TPA 2260 Sound Design for Theatre 3 hrs
  - TPA 2490 Technical Theatre/Design Internship 6 hrs
  - TPA 3401 Theatre Careers for Tech/Management 3 hrs

- Restricted electives (see list of courses) 2 hrs

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Theatre course
- Maintain a ‘B’ Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated production
- Minimum of 60 theatre credits must be completed in residency at UCF
- Computer Competency met by STA 1060C

* requires instructor and departmental approval in advance

UCF Degree Programs
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
(0-8 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
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 129 hours

Related Programs: Art, Film, Music, Theatre Studies BA
Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:
- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits.
- University minimum Upper Division credit requirement must still be met.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all theatre courses and must be taken.
- THE 2XXX (Script Analysis): may use THE 2300 or THE 3305
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TPP 2100: may use TPP 1190 or TPP 2110
- TPA 2210: may use TPA 2200 or TPA 2201

THEATRE - MUSICAL THEATRE TRACK (B.F.A.)
College of Arts and Sciences
Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu

E-mail: jcbell@mail.ucf.edu
Bell, 407-823-3020

The Bachelor of Fine Arts Track in Musical Theatre has been developed to serve those students interested in a career in the entertainment industry and the musical theatre stage. It is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre. Because of its geographic location, UCF is a top choice for students interested in musical theatre. Walt Disney World, Universal Studios, and the budding expansion of the arts in Central Florida make it necessary for students to receive advanced studies in acting, musical theatre voice, and dance.

Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements
- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become majors via an interview and audition. For complete information, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu.

A candidate must present an audition consisting of one monologue and two musical selections. The entire audition should last no more than three minutes. An accompanist will be provided. Recorded accompaniment is not accepted. Candidates must also participate in a dance audition. Visit www.theatre.ucf.edu for details.

- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of interview

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major
- Theatre grades of less than "C" (2.0) will not be counted
- Continuation in the BFA program requires a positive annual evaluation
- Co-op cannot be used in this major
- Students must consult with a departmental advisor every semester before registration

- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department
- All theatre students should participate, in some capacity, on two UCF-affiliated productions during both Fall and Spring semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped as a major
- All theatre students must include a participation credit course during every semester
- All BFA 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. It is not designed for transfer students. Transfer students may audition and be admitted, but they should consult with the Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System—
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)
A. Communication Foundations (9 hrs)
B. Cultural and Historical Foundations
- Select one course from 1.B.1 list 3 hrs
- Select THE 2020 Survey of Theatre for Majors 3 hrs
- Select one course from 1.B.1 or 1.B.2 list 3 hrs
C. Mathematical Foundations
- Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
- Select STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)
THE 2020 Survey of Theatre for majors
THE 2XXX Script Analysis 3 hrs
THE 2090 Theatre Production/Performance I 1 hr
TPA 2290 Theatre Production/Performance I 1 hr
TPA 2201 Technical Theatre Production 3 hrs
TPP 2100* Theatre Production/Performance I 1 hr
*See Transfer Notes for possible substitutes

3. Specialization: Lower Division (22 hrs)
MUT 1004 Fundamentals of Music I 3 hrs
MUT 1002 Fundamentals of Music II 3 hrs
TPP 2110 Acting I - Introduction 3 hrs
TPP 2170C Acting II - Fundamentals 3 hrs
DAA 2200C Ballet 2 hrs
DAA 2201C Ballet II 2 hrs
DAA 2570C Jazz Dance I 2 hrs
DAA 2571C Jazz Dance II 2 hrs
DAA 2520C Tap Dance I 2 hrs
### 4. Specialization: Upper Division (54 hrs)

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<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>TPP 3172C</td>
<td>Acting III - Characterization</td>
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<tr>
<td>TPP 3250</td>
<td>Musical Theatre Acting Perf I</td>
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<td>TPP 3252</td>
<td>Musical Theatre Acting Perf II</td>
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<tr>
<td>TPP 4253</td>
<td>Musical Theatre Acting Perf III</td>
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<td>THE 4244</td>
<td>Musical Theatre History I</td>
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<td>THE 4245</td>
<td>Musical Theatre History II</td>
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<td>TPP 3223</td>
<td>Theatre Careers for Performance</td>
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<td>TPP 4531C</td>
<td>Period Movement</td>
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<td>TPP 3512C</td>
<td>Stage Combat</td>
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<td>TPP 4255</td>
<td>Musical Theatre Cabaret</td>
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<td>TPA 2248C</td>
<td>Make-up Techniques</td>
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<td>THE 3110</td>
<td>Theatre History I</td>
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<td>TPP 3310C</td>
<td>Directing I</td>
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<td>TPP 4193</td>
<td>Theatre Production/Performance IV</td>
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<td>TPP 4194</td>
<td>Theatre Production/Performance V</td>
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<td>TPP 4195</td>
<td>Theatre Production/Performance VI</td>
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<td>TPP 3257</td>
<td>Musical Theatre Voice I</td>
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<td>TPP 3258</td>
<td>Musical Theatre Voice II</td>
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<td>TPP 4259</td>
<td>Musical Theatre Voice III</td>
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<td>TPP 4923</td>
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<td>TPP 4940</td>
<td>Internship</td>
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### 4B. Restricted Electives (8 hrs)

Chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>THE 3230</td>
<td>Commonality within Cultural Diversity</td>
<td>3 hrs</td>
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<tr>
<td>THE 5307*</td>
<td>Contemporary Theatre, Pract.</td>
<td>3 hrs</td>
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<td>THE 4372</td>
<td>Theatre/ Drama of Tenn. Williams</td>
<td>3 hrs</td>
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<tr>
<td>TPA 3197</td>
<td>Summer Theatre Studio/ Tech/ Design</td>
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<tr>
<td>TPP 3195</td>
<td>Theatre Studio/ Tech/ Design</td>
<td>3 hrs</td>
</tr>
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<td>TPP 3197</td>
<td>Summer Theatre Perform.</td>
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<td>TPP 3295</td>
<td>Studio Performance</td>
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<tr>
<td>TPP 4143C</td>
<td>Acting Styles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3601*</td>
<td>Stage Management</td>
<td>3 hrs</td>
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<tr>
<td>TPA 4400</td>
<td>Theatre Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 3905*</td>
<td>Independent Study</td>
<td>1-9 hrs</td>
</tr>
<tr>
<td>TPP 4311*</td>
<td>Advanced Directing</td>
<td>3 hrs</td>
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<td>Any DAA courses with instructor and departmental approval</td>
<td>2-8 hrs</td>
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<tr>
<td>THE 4912*</td>
<td>Undergraduate Research</td>
<td>3-6 hrs</td>
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<tr>
<td>Honors in the Major Directed Readings and Thesis*</td>
<td>3-6 hrs</td>
<td></td>
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</table>

*requires instructor and departmental approval in advance

### 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- Maintain a 'B' Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Minimum of 60 theatre credits must be completed in residency at UCF
- Computer Competency met by STA 1060C

### 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)
Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the “Intent to Graduate Form.” Students are strongly urged to to declare a minor as early as possible. Contact the student support office of the college offering the minor.

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<tr>
<th>Minor</th>
<th>Certificate</th>
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<tbody>
<tr>
<td>Accounting</td>
<td>Children's Services Certificate</td>
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<td>Aerospace Studies</td>
<td>Computer Information Technology Certificate</td>
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<td>Aging Studies</td>
<td>Crime Scene Investigation Certificate</td>
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<td>American Humanics</td>
<td>Criminal Profiling Certificate</td>
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<td>Anthropology</td>
<td>Cultural Tourism Certificate</td>
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<td>Anthropology in Multicultural Studies</td>
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<td>Asian Studies</td>
<td>Finance: Banking Certificate</td>
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<td>Astronomy</td>
<td>Finance: Corporate Finance Certificate</td>
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<td>Biology</td>
<td>Finance: Investments Certificate</td>
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<td>Business</td>
<td>Information Technology Certificate</td>
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<td>Chemistry</td>
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<td>Coaching</td>
<td>Judaic Studies Certificate</td>
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<td>Cognitive Sciences</td>
<td>Language Development and Disorders Certificate</td>
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<td>Communicative Disorders</td>
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<td>Digital Media</td>
<td>Physics</td>
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<td>European Studies</td>
<td>Sport Business Management</td>
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<td>Exceptional Education</td>
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<td>Technical Education and Industry Training</td>
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<td>Technology and Society</td>
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<td>Finance</td>
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<td>Molecular Biology and Microbiology</td>
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<td>Music</td>
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<td>Space Studies</td>
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<td>Women's Studies</td>
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Additional UCF Programs

Foreign Study Abroad Program:
- Dominica
- France
- Germany
- Italy
- Japan
- Jordan
- South Africa
- Spain

English Study Abroad Program:
- Mexico
- Scotland
ACCOUNTING:
Minor for Business and Non-Business Majors
College of Business Administration
School of Accounting, BA 437
(407) 823-2871
Credit Hour Requirements 21 hours
Required Courses (9 hrs)
AGC 2021 Principles of Financial Accounting 3 hrs
AGC 2071 Principles of Managerial Accounting 3 hrs
Select one of the following (may not be counted as an elective if selected as a required course):
AGC 3131 Financial Accounting Concepts and Analysis 3 hrs
AGC 3361 Intermediate Managerial Accounting 3 hrs
Restricted Electives (12 hrs)
Select four from the following (at least two courses must have either an ACG or TAX prefix)
AGC 3131 Financial Accounting Concepts and Analysis 3 hrs
AGC 3361 Intermediate Managerial Accounting 3 hrs
AGC 3141 Intermediate Financial Accounting 3 hrs
AGC 3501 Accounting and Auditing in the Public Sector 3 hrs
AGC 4401 Accounting Information Systems 3 hrs
AGC 4461 Auditing 3 hrs
AGC 4671 Internal Auditing 3 hrs
AGC 4932 Approved Special Topics Courses in Accounting 3 hrs
TAX 4001 Taxation of Business Enterprises and Transactions 3 hrs
FIN 3414 Intermediate Corporate Finance 3 hrs
FIN 4453 Financial Models 3 hrs
ISM 3005 MIS Techniques 3 hrs
ISM 4212 Database Management Systems 3 hrs
Other Requirements
■ A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
■ At least 9 hours used in the minor must be earned at UCF.
■ No credit by exam (TSD, Military credit) may be used.

AEROSPACE STUDIES: Minor
College of Engineering and Computer Science
Air Force ROTC, TR 501 103
Lt Col Timothy D. Wieck, 407-823-1247
Credit Hour Requirements 16 hrs
Required Courses (16 hr)
AFR 2101C The Air Force Today I 1 hr
AFR 1111 The Air Force Today II 1 hr
AFR 2130C The Development of Air Power I 1 hr
AFR 2131 The Development of Air Power II 1 hr
AFR 3220C Air Force Leadership and Management I 3 hrs
AFR 3230 Air Force Leadership and Management II 3 hrs
AFR 4201C Nat Scrty Forces in Cont Am Soc I 3 hrs
AFR 4210 Nat Scrty Forces in Cont Am Soc II 3 hrs
Other Requirements
■ A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
■ Grades less than "C-" (1.75) are not accepted.
■ At least 12 hours used in the minor must be earned at UCF within the department.
■ No credit by exam (TSD, Military credit) may be used.
■ Internship or Independent Study credit cannot be used toward the minor.

AFRICAN-AMERICAN STUDIES: Minor
College of Arts and Sciences
African American Studies Program, CNH 201G
http://www.cas.ucf.edu/africanamericanstudies
J. Stephenson, 407-823-0026
The African American Studies minor is designed to complement a student’s major area of study. The minor requires a core of African American Studies courses as well as a selection of directed electives in Fine Arts, History, English, Modern Languages and Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.
Credit Hour Requirements 18 hours
Required Courses (6 hrs)
APA 3104 The African American Experience 3 hrs
AMH 3671 Black American History I 3 hrs
Restricted Electives (12 hrs)
AF 2300 African American Music 3 hrs
AF 3955 Study Abroad in the Caribbean 3 hrs
AMH 3572 Black American History II 3 hrs
AMT 3614 Topics in African-American Literature 3 hrs
AMT 3815 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 Air 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
SYO 3700 Race and Ethnic Minorities in the U.S. 3 hrs

Additional courses may be used only with the prior permission of the program Director.
Other Requirements
■ A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
■ Grades below "C" (2.0) in lower level courses are not accepted.
■ At least 12 hours used in the minor must be earned at UCF.
■ No credit by exam (TSD, Military credit) may be used.
■ Internship, Co-op, or Independent Study credit cannot be used toward the minor.

AGING STUDIES: Minor
College of Health and Public Affairs
School of Social Work, HPA1 204
BSW Coordinator, HPA1 204, 407-823-2114
In recognition of the special needs of the elderly citizens of Central Florida, the University offers an eighteen-hour interdisciplinary pro-
gram 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 educa-
tion, or art education. Also all students must contact the coordinator
for planning their internship.
Credit Hour Requirements 18 hours
Required Courses (9 hrs)
GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs
Required Internship: 120 hours
Select one:
SOW 4510 Field Education 3 hrs
HSA 4941 Internship 3 hrs
PSY 3951 Internship 3 hrs
SYO 3941 Internship 3 hrs
Electives (12 hrs)
Students select four additional courses from the following: A maxi-
mum of two courses in their major and at least two courses
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 4530 Legal Issues of the Elderly 3 hrs
SOW 4645 Social Services for the Elderly 3 hrs
College of Arts and Sciences
DEP 3464 Psychology of Aging 3 hrs
SYP 4730 Sociology of Aging 3 hrs
GEY 3930 Women and Aging 3 hrs
SYP 3930 Minority Aging 3 hrs
LIT 3461 Literature of Aging 3 hrs

Other Requirements
■ A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
■ Grades less than "C-" (1.75) are not accepted.
■ At least 12 hours used in the minor must be earned at UCF within the program.
■ No credit by exam (TSD, Military credit) may be used.
■ Independent Study credit may not be used toward the minor.
AMERICAN HUMANICS: Minor
American Humanities Minor with National Certificate
College of Health and Public Affairs
Joan Nelson, MBA, MSW - Campus Director
Phone 497-823-0713, e-mail ahminor@mail.ucf.edu

The American Humanities Minor at the University of Central Florida will provide interdisciplinary classroom experience and experiential learning opportunities for students and community residents planning a career as a nonprofit professional working with America’s youth and families. This minor will result in a National Certification in American Humanities Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements

Required Courses (18 credit hours)
- PAF 3930 American Humanities Human Service Workshop 3 hrs
- (1 credit repeated three semesters)
- PAF 494 American Humanities Internship 3 hrs
- Internships within other programs may be accepted with prior approval of American Humanities advisor.

Restricted Electives (12 credit hours)
Group I: General Nonprofit Management, Volunteerism and Human Development 3 hrs
- EDG 4941 Directed Field Experience
- PAD 4144 Nonprofit Organizations
- PAD 4148 Volunteer Management
- *SOW 3203 Social Welfare and Community Resources
- *SOW 3104 Assessing I - Human Development
- DEP 2004 Developmental Psychology
- PFE 3003 Personality Theory
- DEP 3464 Psychology of Aging

Group II: Planning & Evaluation and Human Resource Development 3 hrs
- PAD 4144 Nonprofit Organizations
- PAD 4153 Strategic Planning & Implementation
- PAD 4325 Program Evaluation for the Public and Nonprofit Organizations
- *SOW 4431 Evaluating Social Work Practice & Service Programs
- PAD 4414 Human Resource Management
- MAN 3255 Management of Organizations
- MAN 3201 Human Resource Management
- MAN 4101 Human Relations in Management
- MAN 4320 Human Resources, Recruitment & Selection

Group III: Communication & Marketing 3 hrs
- PAD 4144 Nonprofit Organizations
- *SOW 3352 Practice II: Interpersonal Skills
- COM 3110 Business & Professional Communications
- GEB 3031 The Cornerstone Course
- MAR 3232 Marketing
- MAR 3641 Marketing Intelligence
- MAR 4803 Marketing Management

Group IV: Nonprofit Accounting & Financial Management and Fund Raising Principles & Practices. 3 hrs
- PAD 4144 Nonprofit Organizations
- ACG 2021 Financial Accounting
- ACG 2071 Managerial Accounting
- PAD 5850 Grant and Contract Management
- PAD 4204 Fiscal Management
- PAD 4131 Public Sector Project Management
- PAD 4147 Resource Development in the Nonprofit Sector

Public Affairs Emphasis

Restricted Electives Choose at least two from the following (6 credit hours)
- PAD 4131 Public Sector Project Management
- PAD 4144 Non-Profit Organizations
- PAD 4147 Resource Development in the Nonprofit Sector
- PAD 4204 Fiscal Management
- PAD 4325 Program Evaluation for the Public and Non-Profit Organizations

Restricted Electives Choose at least two from the following (6 credit hours)
- PAD 4148 Volunteer Management
- PAD 4153 Planning and Improvement for Public Organizations
- PAD 4223 Public Budgeting
- PAD 4253 Community and Economic Development
- * open only to SOW majors

Other Requirements
- Enrollment in American Humanities Certificate Program through

AMERICAN STUDIES: Minor
College of Arts and Sciences
Liberal Studies Office, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team

Credit Hour Requirements

Required Courses (9 hrs)
- Select one course in each of the three categories below

Literature and Humanities
- AML 3031 American Literature I
- AML 4011 American Novel
- AML 4261 Literature of the South
- AML 3682 Ethnic Literature in America

Social Sciences
- POS 3413 The American Presidency
- POT 3204 American Political Thought
- SYD 3700 Race and Ethnic Minorities in the U.S.
- SYP 3630 Sociology of Popular Culture

History
- AMH 3423 Florida History 1845-present
- AMH 3561 Women in American History I
- AMH 4110 Colonial America, 1607-1763
- AMH 4130 The Age of the American Revolution
- AMH 4321 American Culture I
- AMH 4313 American Culture II

Restricted Electives (12 hrs)
- Courses chosen from courses approved by the Liberal Studies advisors. A list can be obtained by meeting with an advisor to plan your course of study.

Other Requirements
- Students must earn at least a “C” (2.0) in each course used to satisfy the minor.
- At least eighteen credit hours must be earned in upper level credits.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ANTHROPOLOGY: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://cas.ucf.edu/soc_anthro/firstpage.html
anthropology@ucf.edu
Jay Corzine, 407-823-2227

The Anthropology minor develops a holistic understanding of the past and present human condition. Four different concentrations are delimited within the Anthropology minor.

Credit Hour Requirements

Required Courses 18 hours
- Two of the following four 2000 level courses must be included in the minor:
  - ANT 2000 General Anthropology 3 hrs
  - ANT 2100 Archaeology & Rise of Human Culture 3 hrs
  - ANT 2410 Cultural Anthropology 3 hrs
  - ANT 2511 The Human Species 3 hrs

Restricted Electives (12 hrs)
- Four other Anthropology courses must be taken within one of the following defined concentrations. Substitutions must be approved by the Anthropology Coordinator.

Concentration in General Anthropology (12 hrs)
- All four 2000 level courses plus two upper level (3000-5000) courses in Anthropology

Concentration in Archaeology (12 hrs)
- ANT 2000 and ANT 2100 must be taken. The other four courses must be selected from:
  - ANT 3158 Florida Archaeology
  - ANT 3155 Archaeological Method and Theory
  - ANT 3142 Old World Prehistory
  - ANT 3145 Archaeology of Complex Societies
  - ANT 3163 Mesoamerican Archaeology
  - ANT 3166 Maya Archaeology (or ANG 6168)
  - ANT 3184 Mortuary Archaeology
ANT 4153  North American Archaeology
ANT 4180C  Seminar in Laboratory Analysis
(or three 1 hr labs)
ANT 4824  Advanced Archaeological Field Work
ANG 5166  Problems of Maya Archaeology
ANG 5167  Maya Hieroglyphs
ANG 5228  Maya Iconography

Concentration in Physical Anthropology (12 hrs)

Take four of the following courses:

ANT 3184  Mortuary Archaeology
ANT 3541  Biobehavioral Anthropology
ANT 3550  Primatology
ANT 4521C  Forensic Anthropology
ANT 4462  Medical Anthropology
ANT 4525C  Human Osteology
ANT 4598E  Human Origins

Concentration in Cultural Anthropology (12 hrs)

ANT 2000 and ANT 2410 must be taken. The other four courses must be selected from:

ANT 3212  Peoples of the World
ANT 3241  Magic, Ritual, and Belief
ANT 3245  Native American Religions
ANT 3262  Rural Society
ANT 3273  Law and Culture
ANT 3302  Sex, Gender and Culture
ANT 3311  Indians of the SE US
ANT 3312  Ethnology of North Amer Indians
ANT 3313  Indians of N Amer High Plains
ANT 3314  Indians of the Northeast Woodlands
ANT 3318  Indians of the Northwest Coast
ANT 3314  The Incas
ANT 3332  Peoples and Culture of Latin America
ANT 3701  Applied Anthropology
ANT 3363  Anthropology of Japan
ANT 3640  Language and Culture
ANT 3640  Caribbean Cultures
ANT 3319  The Anthropology of Diaspora
ANT 4034  History of Anthropological Thought
ANT 4308  Gender Issues in Latin America
ANG 5167  Maya Hieroglyphs
ANG 5228  Maya Iconography
ANG 6324  Contemporary Maya

Other Requirements

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor

College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro/firstpage.html
anthropology@ucf.edu
Jay Corzine, 407-823-2227

This minor develops a more sophisticated understanding of the recent dilemmas of Hispanic, Native American, and Pacific Rim cultures, sex, and gender controversies in America and other societies, and the theoretical and practical issues of modern applied anthropology. The minor is especially appropriate for students majoring in political science, international business, or for any student seeking an enhanced understanding of contemporary cultural relations.

Credit Hour Requirements 18 hours

Required Course (3 hrs)

One of the following two 2000 level courses must be included in the minor:

ANT 2000  General Anthropology
ANT 2410  Cultural Anthropology

Restricted Electives (15 hrs)

Five other Anthropology courses must be taken from the following offerings. Substitutions require the consent of the Anthropology Coordinator.

ANT 3164  The Incas
ANT 3212  Peoples of the World
ANT 3241  Magic, Ritual, and Belief
ANT 3245  Native American Religions
ANT 3302  Sex, Gender and Culture
ANT 3312  Ethnology of North Amer Indians
ANT 3332  People and Cultures of Latin Amer
ANT 3640  Language and Culture
ANT 3640  Caribbean Cultures
ANT 3319  The Anthropology of Diaspora

ANT 4308  Gender Issues in Latin America
SYD 3700  Race and Ethnic Minorities in the US

Other Requirements

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

ART HISTORY: Minor

College of Arts and Sciences
Art Department, VAB 117
http://www.art.ucf.edu/
art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements 27 hours

Required Courses (15 hrs)

ARH 2050  The History of Art I 3 hrs
ARH 2051  The History of Art II 3 hrs
ARH 4310  Early Italian Renaissance Art 3 hrs
ARH 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 4560  African Art
ARH 4655  Meso American Art

Restricted Elective: (3 hrs)

ARH 4450  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 six of the required hours must be regularly scheduled 3000-4000 level courses in an area of specialization and taken at UCF.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ART - STUDIO: Minor

College of Arts and Sciences
Art Department, VAB 117
http://www.art.ucf.edu/
art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements 24 hours

Required Courses (15 hrs)

ARH 2050  The History of Art I 3 hrs
ARH 2051  The History of 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 an area of specialization and taken at UCF.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
Minors

ASIAN STUDIES: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

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
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 Arts and Sciences
Department of Physics, MAP 310
physics@ucf.edu
407-823-2325

Credit Hour Requirements
Required Course (21 hrs)
AST 2002L Introductory Astronomy 1 hr
AST 2002L Introductory Astronomy Lab 1 hr

Restricted Electives (7 hrs)
Select either:
AST 3211 Stellar Astrophysics 3 hrs
AST 3722C Observational Astronomy 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

CHEMISTRY: Minor
College of Arts and Sciences
Department of Chemistry and Forensic Science, CH 117
http://www.cas.ucf.edu/chemistry
chemistry@ucf.edu

Credit Hour Requirements
Required Courses (15 hrs)
CHM 2046 Chemistry Fundamentals I 3 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs

Required Courses (28 hrs)
Required Accounting Course(s) (6 hrs)
AGC 2021 Principles of Financial Accounting
AGC 2071 Principles of Managerial Accounting

Required Courses (15 hrs)
ECO 2013 Macroeconomics
ECO 2023 Microeconomics
FIN 3403 Business Finance
MGT 3025 Management of Organizations
MKT 3023 Marketing

Restricted Elective (3 hrs)
A 3000 level business core course
(GEB 3004 may not be used)

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor and an overall GPA in the minor of 2.0 is required.
- Grades below “C” (2.0) are not accepted.
- At least 12 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

BIOLOGY: Minor
College of Arts and Sciences
Biology Department, BL 301
http://pegasus.cc.ucf.edu/~biology
E-mail: biology@ucf.edu
F. Logiudice, 407-823-2141

Credit Hour Requirements
Required Courses (32 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 3063 Genetics 3 hrs
PCB 4863 Population Biology and Evolution 5 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
- A minor in Biology will not be awarded to students who have, or expect to earn, any other Life Science degree.

BUSINESS: Minor for Non-Business Majors
College of Business Administration, BA2-101
B. Moore, 407-823-5256, bmoore@bus.ucf.edu

Credit Hour Requirements
Required Accounting Course(s) (6 hrs)
AGC 2021 Principles of Financial Accounting
AGC 2071 Principles of Managerial Accounting

Required Courses (15 hrs)
ECO 2013 Macroeconomics
ECO 2023 Microeconomics
FIN 3403 Business Finance
MGT 3025 Management of Organizations
MKT 3023 Marketing

Restricted Elective (3 hrs)
A 3000 level business core course
(GEB 3004 may not be used)

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor and an overall GPA in the minor of 2.0 is required.
- Grades below “C” (2.0) are not accepted.
- At least 12 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
- A minor in Biology will not be awarded to students who have, or expect to earn, any other Life Science degree.
Minors

Foundation Courses
Select from at least 4 subject areas

Neuroscience
PSB 3002 Physiological Psychology (PR: PSY 2012)
PSB 4206 Neuropsychology (PR: PSB 3002)
ZOO 744 Neurobioloy (PR: BSC 2010C)
PSB 4242 Brainwaves and Behavior (PR: PSB 3002)

Philosophy
PHI 3320 Philosophy of Mind (PR: PHI 2010 or C.I.)
PHI 3323 Minds and Machines (PR: PHI 2010 or C.I.)
PHI 4341 Ways of Knowing (PR: PHI 2010)
PHI 3451 Philosophy of Psychology (PR: Junior or C.I.)
PHI 4400 Philosophy of Science

Psychology
EXP 3604C Cognitive Psychology (PR: PSY 2012)
EXP 4507C Advanced Human Memory and Cognition (PR: PSY 3213C and EXP 3604C)
EXP 3304C Perception (PR: PSY 2012, PSY 3213C)

Computer Science and Information Technology
CAP 4453 Robot Vision (PR: COP 3530C and MAC 2312, or C.I.)
CAP 4630 Artificial Intelligence (PR: COP 3530C)
EEL 3520 Information Theory (PR: MAC 2147 or any calculus course; not open to EE or CPE majors)
EEL 3552C Signal Analysis & Communications (PR: EEL 3004)

Language and Linguistics
LING 3010 Principles of Linguistics (PR: ENC 1102)
LING 3716 Language Development: Birth Through 8 Years (PR: DEP 2004)
LING 3717 Language Development: 9-18 Years (PR: LIN 3716)
LING 3840 Psychology of Oral Communication

Restricted Electives

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 3402C)
COP 5015 Multimedia Compression on the Internet (PR: senior or graduate student)
COP 5415 Computer Vision (PR: COP 3530C)
COP 5512 Evolutionary Computing
COP 4520 Concepts of Parallel and Distributed Processing (PR:COP 3530C and COP 3402C)
LING 4711 Language Analysis (PR: LING 3716 and LING 3717)
LING 4711L Language Analysis Lab (PR: LING 3716 and LING 3717)
PHI 3626 Advanced Ethics in Science and Technology (PR: COP 3520C or DIG 2000 or C.I.)
PHI 2101 Critical Thinking
PHI 2101 Formal Logic I
PHI 4500 Metaphysics (PR: Philosophy Major or C.I.)
PHI 4321Philosophies of Embodiment (PR: Junior standing and either PHI 2010, PHI 2111, PHI 2101, or C.I.)
MAP 4103 Mathematical Modeling I (PR: MAC 2311 or MAC 2281 and MAP 2302)
PSY 4025 The Psychology of Art (PR: PSY 2012 and ARH 205x)
PSY 3213C Research Methods in Psychology (PR: PSY 3212 and STA 214C or STA 2203)
EXP 3304C Perception (PR: PSY 2012 and PSY 3213C)

Other Requirements

A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.

18 hours must be taken at the upper division.

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.

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, 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.

Credit Hour Requirements 18 hours

Required Courses (18 hrs)

PET 2622C Human Injuries 3 hrs
PET 3705 Coaching Theory 3 hrs
PET 3403 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:
PETO2624 Coaching Football 3 hrs
PETO3644 Coaching Basketball 3 hrs
PETO3324 Coaching Volleyball 3 hrs

*If the student has completed this course at a community college it can be transferred into the program.

Other Requirements

A minimum 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, Co-op, or Independent Study credit cannot be used toward the minor.

Cognitive Sciences: Minor

College of Arts and Sciences
Philosophy Department, CNH 411

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

E-mail: phildept@ucf.edu

Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

The cognitive sciences minor provides an interdisciplinary approach to the study of mind, brain, and cognition, broadly construed. It complements the background of students intending to pursue graduate degrees in cognitive science, computer science, philosophy, biology, neuroscience, and medicine, as well as students with more immediate career goals in fields such as neural network modeling, neuropsychology, information technology, clinical or counseling psychology, biotechnology, and others.

Credit Hour Requirements 21 hrs

Note: It is the student’s responsibility to satisfactorily complete all prerequisite courses prior to registering for each course. Students must check the most current catalog before registering, and abide by the prerequisites in effect at that time.
COMMUNICATIVE DISORDERS: Minor
College of Health and Public Affairs
Department of Communicative Disorders
HPA2 Suite 101
Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
E-mail: jschwart@mail.ucf.edu
http://www.theatre.ucf.edu/comdis

Credit Hour Requirements 22 hours
Required Courses
- SPA 3471 Communicative Disorders In Literature & Media 3 hrs
- SPA 3312 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 Lifespan 3 hrs
- SPA 4476 Speech Disorders Across the Lifespan 3 hrs

Other Requirements
- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades 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 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.
- Participation on a minimum of one departmental dance concert.

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

CRIMINAL JUSTICE: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA1 311
David Fabianic, 407-823-5940
cjadwise@mail.ucf.edu

Credit Hour Requirements 18 hours
Required Courses
- CCJ 3024 Criminal Justice System 3 hrs
- CCJ 3014 Crime in America 3 hrs

Restricted Electives
- Two of the following:
  - CJS 3510 Prosecution and Adjudication
  - CJC 3010 The Corrections and Penology
  - 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 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.
- Participation on a minimum of one departmental dance concert.

DANCE: Minor
College of Arts and Sciences
Theatre Department, UTC 180
E-mail: cjadvise@mail.ucf.edu

Credit Hour Requirements 18 hrs
Entrance Requirement
A successful audition

Required Courses
- DAA 2100C Modern Dance I 2 hrs
- DAA 2520C Tap Dance I 2 hrs
- DAA 2521C Tap Dance II 2 hrs
- DAA 2571C Jazz Dance I 2 hrs
- DAA 2574C Tap Dance III 2 hrs
- DAA 3502C Jazz Dance III 2 hrs
- DAA 3680 Dance Performance 1 hr
- DAA 2101C Modern Dance II 2 hrs
- DAA 3680 Dance Performance 1 hr
- DAA 3502C Jazz Dance III 2 hrs
- DAA 2200C Ballet I 2 hrs
- DAA 2300C Ballet III 2 hrs
- DAA 2130 Jazz Dance I 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2302C Ballet II 2 hrs
- DAA 2100C Modern Dance I 2 hrs
- DAA 2202C Ballet I 2 hrs
- DAA 2300C Ballet III 2 hrs
- DAA 2201C Ballet I 2 hrs
- DAA 2571C Jazz Dance II 2 hrs
- DAA 2524C Tap Dance III 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2521C Tap Dance II 2 hrs
- DAA 2302C Ballet II 2 hrs
- DAA 2570C Jazz Dance I 2 hrs
- DAA 2574C Tap Dance III 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2524C Tap Dance II 2 hrs
- DAA 2201C Ballet I 2 hr
- DAA 2571C Jazz Dance II 2 hrs
- DAA 2574C Tap Dance III 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2570C Jazz Dance I 2 hrs
- DAA 2521C Tap Dance II 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2524C Tap Dance III 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2570C Jazz Dance I 2 hrs
- DAA 2521C Tap Dance II 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2570C Jazz Dance I 2 hrs
- DAA 2522C Tap Dance II 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2570C Jazz Dance I 2 hrs
- DAA 2522C Tap Dance II 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 2570C Jazz Dance I 2 hrs
- DAA 2522C Tap Dance II 2 hrs
- DAA 2201C Ballet II 2 hrs

Electives
- Six semester hours of Criminal Justice Courses (selected with the aid of an advisor).

Other Requirements
- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- Participation on a minimum of one departmental dance concert.
- Participation on a minimum of one departmental dance concert.
- 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 Sciences
Digital Media Program, VAB 205
http://www.creat.cas.ucf.edu
moshelli@cs.ucf.edu
M. Moshell, 407-823-6100

Credit Hour Requirements
18 hrs

Required Courses:
12 hrs
DIG 3001 Principles of Digital Media
GRA 2101C Introduction to Computer Art
DIG 4718L Internet Interaction
COP 2500C Concepts in Computer Science

Restricted Elective Courses
6 hrs
Select two courses:
MUS 2360C Intro to Music Technology
ENC 4415 Digital Rhetorics and the Modern Dialectic
IDS 3701C Internet Software Design
ART 2201C Design Fundamentals I
DIG 5580C Assembling Digital Media
FIL 3625 Interactive Entertainment
DIG 4921C Media for e-Commerce I
DIG 4641 Creative Digital Devices
DIG 4780 Modeling for Realtime Graphics
DIG 3135C Digital Imagery
DIG 3855 Converging Media
DIG 4640 Autonomous Media
DIG 4715C Game Engines
DIG 4713C Game Design

Other Requirements
- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- 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
College of Education
Department of Child, Family, and Community Sciences
ED 209
http://pegasus.cc.ucf.edu/~eceucf/
Program Coordinator: Lynn Hartle
E-mail: lhartle@mail.ucf.edu
ED 206-K, 407-823-4163

The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student’s major program.

Credit Hour Requirements
18 hrs

Required Courses
12 hrs
RED 3310 Emergent Literacy
ECE 3268 Play Development
EDF 3307 Learning Environments & Guidance
EEX 3450 Young Children with Special Needs
EEX 4751 Parent Involvement
TSL 4080 Theory and Practice of Teaching ESOL

Restricted Electives
3 hrs
EDF 3740 Foundations of ECE
EDF 3210 Observing Child Growth & Development
LAE 3414 Children’s Literature
RED 3012 Foundations of Reading
ECE 4731 Health Safety & Nutrition

Other Requirements
- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- 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.

ECONOMICS: Minor
(for both Business Majors and non-Business Majors)
College of Business Administration
Department of Economics, BA 318
R. Pennington, 407-823-2640, rpennington@bus.ucf.edu

Credit Hour Requirements
18 hrs

Required Courses
9 hrs
ECO 2013 Macroeconomics
ECO 2023 Microeconomics
Select one of the following two courses:
ECO 3101 Intermediate Price Theory
ECO 3203 Aggregate Econ Conditions Anal

Upper Division Restricted Electives
9 hrs
Select from any ECO, ECP or ECS courses at the 3000-4000 level, excluding ECO 3401. Note: ECO 3401 is a pre-requisite for ECO 3411.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- 3 hours of Internship or Independent Study credit can be used toward the minor with prior approval of the economic advisor.

EMERGENCY MANAGEMENT: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. Ronnie Korosec, 407-823-2604; fax: 407-823-5651
Email: rkorosec@mail.ucf.edu

The minor in emergency management 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 and booming area of study. Students who complete a minor in emergency management gain additional insight and knowledge that will help them find positions in various federal, state and local government and nonprofit organizations. Some of these may include the Environmental Protection Agency, the Occupational Health and Safety Administration, the Orange County Emergency Management Division, and the Federal Emergency Management Agency, among others.

Credit Hour Requirements
18 hrs

Required Courses
9 hrs
PAD 4110 Intergovernmental Administration
PAD 4392 Managing Public Emergencies
PAD 4393 Emergency Management and Disaster Planning
PAD 4712 Information Systems for Public Managers and Planners
PAD 4395 Disaster Response and Recovery
PAD 4390 Hazard Mitigation

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades are not accepted.
- At least 15 hours used in the minor must be earned at UCF with-
Minors

- Internship or Independent Study cannot be used toward the minor.

ENGLISH - CREATIVE WRITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hours
Required Course (3 hrs)
CRW 3013 Creative Writing for English Majors 3 hrs

Restricted Elective Courses
Select one course after completing CRW 3013
CRW 3120 Fiction Writing Workshop
CRW 3211 Nonfiction Writing
CRW 3510 Poetry Writing Workshop
CRW 3211 Creative Nonfiction 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.

ENGLISH - LITERATURE: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hrs
Required Course (3 hrs)
ENG 3014 Theories and Techniques of Lit Study 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.

ENGLISH - TECHNICAL WRITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hours
Required courses
ENC 3311 Advanced Expository Writing 3 hrs
ENC 3210 Writing for the Technical Professional 3 hrs
ENC 3310 Magazine Writing I 3 hrs
ENC 3211 Theory & Practice of Tech Writing 3 hrs
ENC 4218 Visual Elements in Documentation 3 hrs
ENC 4295 Technical Documentation I 3 hrs
ENC 4294 Technical Documentation II 3 hrs
ENC 4293 Technical Documentation III 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.

ENGLISH - TECHNICAL WRITING & EDITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hours
Required courses
ENC 3311 Advanced Expository Writing 3 hrs
ENC 3211 Theory & Practice of Tech Writing 3 hrs
ENC 3210 Writing for the Technical Professional 3 hrs
ENC 3310 Magazine Writing I 3 hrs
ENC 3211 Theory & Practice of Tech Writing 3 hrs
ENC 4218 Visual Elements in Documentation 3 hrs
ENC 4295 Technical Documentation I 3 hrs
ENC 4294 Technical Documentation II 3 hrs
ENC 4293 Technical Documentation III 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.

ENGLISH - WRITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hours
Required courses
ENC 3311 Advanced Expository Writing 3 hrs
ENC 3210 Writing for the Technical Professional 3 hrs
ENC 3310 Magazine Writing I 3 hrs
ENC 3211 Theory & Practice of Tech Writing 3 hrs
ENC 4218 Visual Elements in Documentation 3 hrs
ENC 4295 Technical Documentation I 3 hrs
ENC 4294 Technical Documentation II 3 hrs
ENC 4293 Technical Documentation III 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.

Internship, Co-op, or Independent Study credit cannot be used toward the minor.

No credit by exam (TSD, Military credit) may be used.

At least 15 hours used in the minor must be earned at UCF within the department.

Students completing the minor may intern with a Central Florida corporation.

English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor.

Restricted Upper Division Electives (18 hrs)
English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor.

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
ENVIRONMENTAL STUDIES: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
lis@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

The Environmental Studies minor is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

Credit Hour Requirements 21 hours

Note: It is the student's responsibility to ensure that any prerequisite courses have been completed before enrolling in any of these courses requiring a prerequisite.

Required Course

| IDS 3150 | Foundations of Environmental Studies | 3 hrs |

Science & Environmental Electives (9 hrs)

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<th>Natural Sciences</th>
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Environmental Engineering

| ENV 3001 | Introduction to Environmental Engineering |
| ENV 4341 | Solid Waste Management |

Social & Humanities Electives (9 hrs)

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Other Requirements

- A grade of “C” or above (2.0) is required in each course used to satisfy the minor.
- 18 hours must be taken at the upper division.

EUROPEAN STUDIES: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://www.cas.ucf.edu/politicalscience

Minors

- 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 Liberal Studies advisors to be used toward the minor.
- Internship, independent study, and co-op credit cannot be used in this minor.

Credit hour requirements: 21 hours

Students are responsible for meeting any prerequisites for the courses in the minor.

Required core courses: 6 hours

| CPO 4101 | Politics of the European Union |
| LIT 3062 | Continental European Fiction |

Restricted Electives: 12 hours

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<tr>
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History (6 hrs)

| EUC 3235 | Romanticism and Realism |
| EUC 3242 | Modern Europe and the First World War |
| EUC 3281 | Second World War and Rebirth of Europe |
| EUC 3315 | History of Modern Spain |
| EUC 3411 | Ancient Rome |
| EUC 3431 | History of Modern Italy |
| EUC 3451 | History of Modern France |
| EUC 4284 | Fascism and the Totalitarian Dictatorships |
| EUC 4400 | The History of Ancient Greece |
| EUC 4465 | Hitler's Third Reich |
| EUC 4610 | Women in European Society |
| EUC 4620 | European Great Powers: 1815-1914 |
| EUC 4621 | War & International Politics in Europe, 1916-present |
| JST 3701 | History of the Holocaust |
| GER 4510 | Life and Culture in Nazi Germany |
| EUC 4501 | English History: 1485-1815 |
| EUC 4502 | English History: 1815-Present |
Minors

Political Science or Economics (3 hrs)

CPO 3104 Politics of Western Europe
CPO 3614 Politics of Eastern Europe
CPO 4123 Government and Politics of Great Britain
CPO 4445 Comparative Political Parties
CPO 4074 Political Economy
ECS 4303 Economics of European Integration

Required Courses 9 hours

CPO 4074 Political Economy
CPO 4445 Comparative Political Parties
PHI 3510 Marx and Nietzsche
PHI 3763 Modernity as a Philosophical Problem
PHI 3782 Existentialism
ARH 4200 20th Century Art

Other: 3 Hours

Other requirements are subject to prior approval by the director.

Foreign Language Requirement:

Two years (four semesters) or equivalent proficiency exam in French, German, Greek, Italian, Portuguese, or Spanish (other languages require approval of director).

Other Requirements

- A grade of “C” (2.0) or better is required for all courses counting towards the minor.
- A maximum of 6 hours of Study Abroad credit in equivalent courses can be used, with no more than 3 credits in one area.
- At least 18 hours must be taken at UCF.
- No credit by exam (military credit, TSD) may be used.
- Courses offered by the Modern Languages Department might be offered in a language other than English.
- At least 15 credits must be upper division.

EXCEPTIONAL EDUCATION: Minor

College of Education

Department of Child, Family, and Community Sciences

ED 209: http://www.edcollege.ucf.edu

Program Coordinator: Dr. Lee Cross

E-mail: lcross@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor will strengthen the marketability of the student’s major program.

Credit Hour Requirements 20-21 hrs

Required Courses (18 hrs)

ED 3012 Basic Foundations of Reading 3 hrs
EEX 4003 Teaching Exceptional Students 3 hrs
EEX 4601 Introduction to Behavior Management 3 hrs
EEX 4753 Parent/Professional Collaboration 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
EEX 3243 Techniques for Exceptional Adolescents/Adults or 3 hrs
EEX 3241 Methods for Academic Skills for Excep. Students 3 hrs

Restricted Electives (2-3 hrs)

EEX 4054 Applications and Theories for Students with Special Needs or 2 hrs
EDF 4214 Classroom Learning Principles 3 hrs

Other Requirements

- Completion of all parts of the General Knowledge test and/or CLAST with appropriate passing scores (no alternatives or waivers), or completion of an AA degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule classes including ENC 1101, 1102, and two college level math courses, MAC 1105 or higher, is required
- No Military credit may be used. Transfer credits from other universi-

versities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Exceptional Education nor does it constitute admission to the College of Education.

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 18 hrs

Required courses 9 hrs

FIN 3303 Financial Markets 3 hrs
FIN 3403 Business Finance 3 hrs
FIN 3470 Financial Statement Analysis 3 hrs
FIN 3504 Investment Analysis 3 hrs
FIN 3518 Financial Accounting 3 hrs
FIN 3414 Intermediate Corporate Finance 3 hrs
FIN 4424 Advanced Topics in Financial Management 3 hrs
FIN 4425 Corporate Finance 3 hrs
FIN 4434 Commercial Bank Management 3 hrs
FIN 4453 Financial Models 3 hrs
FIN 4454 Value Analysis and Management 3 hrs
FIN 4453 Financial Derivatives 3 hrs
FIN 4456 International Financial Management 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 3518 Financial Accounting 3 hrs
FIN 4424 Advanced Topics in Financial Management 3 hrs
FIN 4425 Corporate Finance 3 hrs
FIN 4434 Commercial Bank Management 3 hrs
FIN 4453 Financial Models 3 hrs
FIN 4454 Value Analysis and Management 3 hrs
FIN 4453 Financial Derivatives 3 hrs
FIN 4456 International Financial Management 3 hrs

Other Requirements

- A student minoring in finance must earn a grade of “C” (2.0) or higher in each course applied toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward
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.

Credit Hour Requirements *19 hrs

Required Courses
*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

* Only offered once a year

Other Requirements
* No grades below “C-” (1.75) and no “S” grades will be accepted.
* At least 12 hours used in the minor must be earned at UCF.
* No credit by exam (TSD, Military credit) may be used.
* Internship or Independent Study credit cannot be used toward the minor.

FRENCH: Minor
College of Arts and Sciences
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang
Modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs

Restricted Electives
* Select six upper division courses in French, including the 3000-level advanced oral communication and composition courses.
* A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
* A grade of “C” (2.0) or better is required in each course for the minor.
* Grades less than “C-” (1.75) are not accepted.
* At least 15 hours used in the minor must be earned at UCF within the department.
* No credit by examination (TSD, Military credit) may be used.
* Internship or Independent Study credit cannot be used toward the minor without departmental approval.

GERMAN: Minor
College of Arts and Sciences
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang
Modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs

Restricted Electives
* Select six upper division courses in German, including the 3000-level advanced oral communication and composition courses.
* A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
* A grade of “C” (2.0) or better is required in each course for the minor.
* Grades less than “C-” (1.75) are not accepted.
* At least 15 hours used in the minor must be earned at UCF within the department.
* No credit by examination (TSD, Military credit) may be used.
* Internship or Independent Study credit cannot be used toward the minor without departmental approval.

HEALTH INFORMATION MANAGEMENT: Minor
College of Health and Public Affairs
Department of Health Professions, HPA2 210
Thomas J. Falen, 407-823-2369
Email: tfalen@mail.ucf.edu

Credit Hour Requirements 20 hrs

Required Courses
HIM 3006 *Foundations of Health Information Management 3 hrs
HIM 4506 *Quality Management 3 hrs
HIM 4656C *Health Information Management Systems 3 hrs
HSC 3531 *Medical Terminology 3 hrs
HIM 4226C *Coding Procedures I 5 hrs
HIM 4256C *Coding Procedures II 3 hrs

Other Requirements
* A minimum overall GPA of 2.5 is required. A minimum grade of “C” (2.0) is required in each course for the minor.
* Grades less than “C-” (1.75) are not accepted.
* At least 15 hours used in the minor must be earned at UCF within the department.
* No credit by examination (TSD, Military credit) may be used.
* Internship or Independent Study credit cannot be used toward the minor without departmental approval.

HEALTH SCIENCES: Minor
College of Health and Public Affairs
Department of Health Professions, HPA2 212
L. Timothy Worrell, 407-823-2214
E-mail: worrell@mail.ucf.edu

Credit Hour Requirements 18 hrs

Required Courses
HSA 3111 *U.S. Health Care Systems 3 hrs
HUN 2002 *Modern Concepts of Nutrition 3 hrs
HSC 3110C *Medical Self Assessment 3 hrs

Restricted Upper Division Electives
9 additional hours of upper division courses in the Health Professions department.

Other Requirements
* Majors may not count courses presently required in a department program.
* A minimum GPA of 2.5 is required in all coursework, and a minimum grade of “C” (2.0) is required in all Health Professions courses.
* Grades less than “C-” (1.75) are not accepted.
* At least 15 hours used in the minor must be earned at UCF within the department.
* No credit by exam (TSD, Military credit) may be used.
* Internship or Independent Study credit cannot be used toward the minor.
Minors

HEALTH SERVICES ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Health Professions, HPA2 210
Thomas Falen, 407-823-2369
Email: tfalen@mail.ucf.edu

Credit Hour Requirements
Required Courses 18 hrs
(15 hrs)
HSA 3111 U.S. Health Care Systems 3 hrs
HSA 4201 Community Health Services 3 hrs
HSA 4190 Org and Mgmt for Health Agencies 3 hrs
HSA 4191 Health Care Automation 3 hrs
HSC 4500 Epidemiology 3 hrs

Restricted Elective (3 hrs)
HSC 3640 Health Law or
HSC 4563 Health Care Ethics or
HSA 4109 Managed Care or
HSA 4502 Risk Management or HIM 4506 Quality Management
HSA 4702 Health Science Research Methods

(Additional prerequisite courses may be required)

Other Requirements
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of “C” (2.0) is required in all courses for the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

HISTORY: Minor
College of Arts and Sciences
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history

Edmund F. Kallina, 407-823-2224

Credit Hour Requirements 18 hrs
Restricted Upper Division Electives (15 hrs)
Five upper division courses taught within the History Department

History Elective (3 hrs)
Any course taught within the History Department

Other Requirements
- A grade of “C-” (1.75) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used without academic advisor’s approval.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental approval.

HOSPITALITY MANAGEMENT: Minor
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, FL 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Credit Hour Requirements 18 hours
Required Courses
(HF 4755) Theme Park & Attraction Mgmt 3 hrs
(HFT 2750) Meetings/Conv/Expo Industry 3 hrs
(FSS 2212C) Quantity Food Preparation 3 hrs
(HFT 2254) Lodging Operations 3 hrs

Other Requirements
- A minimum GPA of 2.0 in all courses used to satisfy the minor.
- At least 12 credit hours used in the minor must be earned at UCF within the College.
- No credit by exam (TSD, Military credit) may be used in the minor.
- It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
- Final exams will be given during Final Exam Week only.
- Internship or Independent Study credit cannot be used toward the minor.

HUMANITIES: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Bruse Janz, 407-823-2273

A multicultural minor focusing on the art, literature, philosophy, and religion of various world cultures. This minor is intended to provide a limited, yet substantive, introduction to humanities themes related to knowledge, responsibility, and society. Students interested in the Liberal Arts major may find this minor particularly helpful. In consultation with a departmental advisor, student will select courses in accordance with the distributions listed below.

Credit Hour Requirements 21 hrs

Humanities Foundations 6 hours
Select two courses:
HUM 3431 Ancient Humanities
HUM 3435 Medieval Humanities
HUM 3255 Modern Humanities
HUM 3251 Contemporary Humanities

Humanistic/Religious Traditions 6 hours
Select two courses:
HUM 3401 Asian Humanities
HUM 3417 Hindu Thought and Culture
HUM 3419 Islamic Thought and Culture
HUM 3552 Christian Thought
HUM 3553 Moses, Jesus and Muhammad
ANT 3245 Native American Religions
JST 3401 The Jewish People I

Applications 6 hours
Select two courses:
PHI 3803 Philosophy and Creativity
PHI 3033 Philosophy, Religion, and the Environment
PHM 3123 Feminist Theories
REL 3162 Healing: Culture, Art, and Praxis
REL 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 3638 Ethical Issues in the 21st Century
PHI 4321 Philosophies of Embodiment: Mind/Body/Self

Upper Division Restricted Elective 3 hours
Select one additional course from the above list or from the following:
HUM 3200 Contemporary Multicultural Studies
HUM 4301 Classical Ideal
HUM 4303 Spiritual Ideal
PHI 4804 Critical Theory
PHI 3800 Aesthetics
PHI 3700 Philosophy of Religion
CLA 3850 Classical Mythology
CLA 3851 Comparative Mythology

Other Requirements
- A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
INTERNATIONAL BUSINESS: Minor for Business Majors
College of Business Administration
Office of Student Support, BA 240
Richard Ajayi, 407-823-5908

Required Courses (3-7 hrs)
Credit Hour Requirements 18-19 hours
Required Courses (9 hrs)
CEB 4361 Business in the International Env 3 hrs
ECO 3703 International Economics 3 hrs
FIN 4064 International Financial Management 3 hrs

Restricted Elective (3 hrs)
MAR 4156 International Marketing
MAN 4600 International Management

Electives (6 hrs)
ANT 3212 People of the World
ECS 4003 Comparative Economic Systems
ECS 4013 Economic Development
GEO 3470 World Political Geography
INR 4035 International Political Economy
INR 4401 International Law I
INR 4224 Contemporary International Politics of Asia
INR 4243 International Politics of Latin America

Special Topics Seminars in International Business; 3000/4000 level foreign language course.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) are not accepted. Students minoring in International Business must earn a grade of “C” (2.0) or better in each course applied toward the minor.
- At least 12 hours used in the minor must be earned at UCF within the College of Business Administration.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

INTERPERSONAL COMMUNICATION: Minor
College of Arts and Sciences
Nicholson School of Communication, COM 288
http://www.cas.ucf.edu/communication
communication@ucf.edu
Advising: See department.

Credit Hour Requirements 21 hrs
Required Courses (6 hrs)
COM 3311 Communication Research Methods
SPC 3331 Interpersonal Communication

Restricted Electives (15 hrs)
COM 3011C 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 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.

INFORMATION TECHNOLOGY: Minor
College of Engineering and Computer Science
School of Computer Science, CSB 201
E-mail: computerscience@ucf.edu
http://www.cs.ucf.edu
Mark Llewellyn, 407-823-2341

Credit Hour Requirements 18-19 hours
Required Courses (3-7 hrs)
Select one of the following options:
Option 1 (Not open to Computer Science Minors or Liberal Studies Majors):
  CGS 1060C or CGS 2100C 3 hrs
  COP 2500C Concepts in Computer Science 4 hrs
Option 2 (Not open to Computer Science Minors or Liberal Studies Majors):
  COP 3223 Intro to Programming with C 3 hrs
  COP 3502C Computer Science I 3 hrs
Option 3 (Computer Science Minors and Liberal Studies Majors Only):
  CGS 1060C or CGS 2100 3 hrs

Restricted Electives (9 hrs)
Select from the following:
  CGS 3346C Unix Operating Systems 3 hrs
  CGS 2545C Database Concepts 3 hrs
  CGS 2585C Desktop/Internet Publishing 3 hrs
  CIL 3175 Internet Applications 3 hrs
  CGS 3269 Computer Architecture Concepts 3 hrs
  CGS 3285 Computer Networks Concepts 3 hrs
  CGS 3763 Operating Systems Concepts 3 hrs

College Electives (3-6 hrs)
Options 1 and 2 3 hrs
Options 3 6 hrs

Any upper division courses offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internships, and those courses listed under Required Courses). See other requirements.

Other Requirements
- Not open to Information Technology majors.
- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within the Computer Science program at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
- The courses used to satisfy the college electives for this minor cannot also be used to satisfy the requirements for a Computer Science Minor.

ITALIAN: Minor
College of Arts and Sciences
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
Modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs
Restricted Electives
- Select 6 upper division courses in Italian, including the 3000- level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

JUDAIC STUDIES: Minor
College of Arts and Sciences
Judaic Studies Program, CNH 201
http://www.cas.ucf.edu/judaic_studies
E-mail: judaicst@ucf.edu
Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women's Studies Programs. Students who desire to minor in Judaic Studies are encouraged to meet with the program director. The certificate in Judaic Studies will be awarded to students completing 15

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LATIN AMERICA AREA STUDIES: Minor
College of Arts and Sciences
VAB 203
(407) 823-1173 or 1174
Dr. Luis Martínez-Fernández, Program Director
martfern@mail.ucf.edu

The minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand, Latin America, its people and its culture. Students completing the minor shall be prepared to apply their knowledge about Latin America in a variety of careers including, but not limited to: education, government, journalism, foreign service, social and community service, international trade and public relations.

Credit Hour Requirements 18 hours
Admission Requirement
Admission by interview with the Program Director.

Required Skills
Successful completion of SPN 1120 and SPN 1121 or demonstration of proficiency.

Restricted Electives (18 hrs)
At least 6 hours must be from one disciplinary group, and at least 3 hours from two additional groups. Additional courses may substitute with prior approval from the Program Director.

Anthropology:
ANT 3164 Ancient Incas
ANT 3168 Maya Archaeology
ANT 3332 People and Cultures of Latin America
ANT 3340 Caribbean Cultures
ANT 4308 Gender Issues in Latin America
ANT 3168 Maya Archaeology

Art History:
ARH 4655 Mesoamerican Art
ARH 3673 Modern Art of Mexico
ARH 3670 20th Century Latin American Art

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.

Legal Studies: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA 311
David B. Slaughter, 407-823-2603
E-mail: dslaught@mail.ucf.edu

Credit Hour Requirements 21 hours
Required Courses (3 hrs)
PLA 3013 Law and the Legal System

Restricted Upper Division Electives (15 hrs)
15 semester hours of legal studies courses selected with the aid of an advisor.

Restricted Electives (3 hrs)
3 semester hours of law-related courses selected with the aid of an advisor.

Other Requirements
■ A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
■ Grades less than "C-" (1.75) are not accepted.
■ At least 15 hours used in the minor must be earned at UCF within the department.
■ No credit by exam (TSD, Military credit) may be used.
■ Internship or Independent Study credit cannot be used toward the minor.
MAGAZINE JOURNALISM: Minor
College of Arts and Sciences
Nicholson School of Communication, COM 258
http://www.cas.ucf.edu/communication
journalism@ucf.edu
Dr. Maria C. Santana, 407-823-2681

Prerequisites
- Grammar proficiency requirement
- A minimum UCF GPA of 3.3

Credit Hour Requirements: 18 hrs

Required courses
- JOU 2100C News Reporting (3 hrs)
- JOU 3510C Magazine Publishing (3 hrs)
- JOU 4242C Magazine Editing and Production (3 hrs)

Restricted Upper Division Electives
- ENC 3310 Magazine Writing I
- JOU 3200 Editing I
- JOU 3202 Editing II
- JOU 4300 Feature Writing
- JOU 4308 Freelance Writing
- JOU 4340C New Media Studies

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

MANAGEMENT INFORMATION SYSTEMS: Minor
College of Business Administration
Department of MIS, BA 309
407-823-3174

Credit Hour Requirements: 18 hrs

Prerequisite courses
- CGS 2100C Computer Fundamentals for Business or equivalent
- CGS 3060C Intro to Computer Science (or equivalent)
- MAC 1105 College Algebra or equivalent
- MGF 1106 Finite Mathematics

Required Courses (minimum 15 hrs)
- ISM 3011 Management Information Systems (3 hrs)
- ISM 3214 Database Management Systems in Business (3 hrs)
- ISM 3501 Essentials of Electronic Commerce (3 hrs)
- ISM 3013 Introduction to Information Systems Management (3 hrs)
- ISM 3521 Business Application (3 hrs)

Electives (choose one) (minimum 3 hrs)
- ISM 4242 Computer-aided Decision Making (3 hrs)
- ISM 4043 Technology and Society (3 hrs)
- Any programming language course (minimum 3 hrs)

Other Requirements
- Courses in the MIS major may substitute for required and elective courses with approval of department chair.
- A grade of "C" (2.0) is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least nine hours of upper division credit used in the minor must be earned at UCF.

Minor is not available to MIS Majors
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MARKETING: Minor
(Open to Business and Non-Business Students)
College of Business Administration
Department of Marketing, BA2 307S

Credit Hour Requirements: 18 hrs

Required Courses (3 hrs)
- MAR 3023 Marketing

Restricted Electives (12-15 hrs)
- Select four or five:
  - MAR 3323 Integrated Marketing Communication
  - MAR 3391 Professional Selling
  - MAR 3403 Sales Force Management
  - MAR 3503 Customer Behavior
  - MAR 3613 Marketing Analysis and Research
  - MAR 3641 Marketing Intelligence
  - MAR 3880 e-Marketing
  - MAR 4156 International Marketing
  - MAR 4724 Strategic Foundations in Global E-Business
  - MAR 4231 Retailing Management
  - MAR 4711 Sport Marketing
  - MAR 4712 Healthcare Marketing
  - MAR 4715 Entertainment Marketing
  - *MAR 4803 Marketing Management
  - *MAR 4804 Marketing Strategy
  - MAR 4841 Services Marketing
  - * Requires prerequisites in addition to MAR 3023

Restricted Non-Marketing Elective (0-3 hrs)
- Three hours of coursework may be chosen outside of marketing from the list below. However, other courses outside Marketing will also be considered—approval by petition to the Department.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

MASS COMMUNICATION: Minor
College of Arts and Sciences
Nicholson School of Communication, COM 228
http://www.cas.ucf.edu/communication
communication@ucf.edu
M. A. Shaver, 407-823-2681

Credit Hour Requirements: 18 hrs

Required Electives (18 hrs)
- Select from the following:
  - MMC 2004 Mass Media
  - ADV 3000 Principles of Advertising
  - COM 3330 Computer Mediated Communication
  - FIL 2400 History of Motion Pictures
  - FIL 3006 Art of the Cinema
  - FIL 3410 History of Animated Films I
  - JOU 3004 History of American Journalism
  - MMC 3420 Mass Media Research Methods
  - MMC 4200 Mass Communication Law
  - MMC 4300 International Media
  - PUR 4000 Public Relations
  - RTV 3000 Development and Structure of Electronic Media
  - RTV 3200 Production Fundamentals and Aesthetics of Electronic Media
  - RTV 4403 Electronic Media, Technology and Society

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 twelve 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.
Mathematics: Minor
College of Arts and Sciences
Department of Mathematics, MAP 207
http://math.ucf.edu
mauth@mail.ucf.edu
H. Martin, MAP 231F, 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 4 hrs
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
MAP 2302 Differential Equations 3 hrs
(Math 2311 and 2312 may be waived by the Department Standards Committee
for a student with adequate high school preparation in calculus. The student
would increase Restricted Electives’ hours accordingly to earn the hours
required in the minor)
Restricted Electives (6 hrs)
The Restricted Electives must be taken from the Department of Mathematics at
UCF and must include one course at the 4000-5000 level.
MAA XXXX (any 3000, 4000, or 5000 level course)
MAD XXXX (any 3000, 4000, or 5000 level course)
MAP XXXX (any 3000, 4000, or 5000 level course, except MAP 3401)
MAS XXXX (any 3000, 4000, or 5000 level course)
MTG XXXX (any 3000, 4000, or 5000 level course)
Grades less than “C-” (1.75) are not accepted.

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.

MIDDLE EASTERN STUDIES: Minor
College of Arts and Sciences
Middle Eastern Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
The Liberal Studies Advising Team, 407-823-0144
John Bersia, 407-823-0687
Roger Handberg, 407-823-2608
Janan Smither, 407-823-5859

MILITARY SCIENCE: Minor
College of Engineering and Computer Science
Army ROTC, BLDG 503
LTC Allison R. Reinwald, 407-823-2430
Credit Hour Requirements: 19 hrs
Required Courses
MSL 3020C Leadership and Problem Solving 4 hrs
MSL 3020C Leadership and Ethics 3 hrs
MSL 4030C Leadership and Management 3 hrs
MSL 4030C Officership 3 hrs
Select one of the following: (3 hrs)
AMH 3541 U.S. Military History to 1900
AMH 3547 U.S. Military History since 1900

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy
  the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within
  the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward
  the minor.

MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor
Burnett College of Biomedical Sciences
Department of Molecular Biology and Microbiology,
HPA2 335, 407-823-5932
http://www.biomed.ucf.edu
Assistant Chair: Roseann White
Program Coordinator: Dorilyn Hitchcock
Credit Hour Requirements: 30 hrs
Required Courses
BSC 2010C Biology I 4 hrs
MCB 3020C General Microbiology 5 hrs
PCB 3233 Immunology 3 hrs
PCB 3233L Immunology Laboratory 1 hr
PCB 3522 Molecular Biology I 3 hrs
PCB 4524 Molecular Biology II 3 hrs
BSC 3403C Quantitative Biological Methods 4 hrs

Restricted Electives (7 hrs)
At least two courses from the Restricted Elective category of the baccalaureate curricu-

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy
  the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within
  the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward
  the minor.

Music: Minor
College of Arts and Sciences
Department of Music, CNH 205
http://www.cas.ucf.edu/music/
music@ucf.edu
J. Pherigo, 407-823-2869
Admission Requirement
A successful audition on the student’s voice or principal instrument.
Credit Hour Requirements: 21 hrs
Required Courses (21 hrs)
MUT 1111 Music Theory IA 2 hrs
MUT 1112 Music Theory IB 2 hrs
MUT 1241 Ear Training and Sight Singing IA 1 hr
MUT 1242 Ear Training and Sight Singing IB 1 hr
Minors

NORTH AMERICAN INDIAN STUDIES: Minor

College of Arts and Sciences
Department of Sociology and Anthropology, PH 403
David E. Jones, 407-823-2227

The North American Indian Studies minor will develop a more sophisticated understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

Minor Requirements:
- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

Credit Hour Requirements (18 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 3245</td>
<td>3 hrs</td>
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<tr>
<td>ANT 3313</td>
<td>3 hrs</td>
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<tr>
<td>ANT 3311</td>
<td>3 hrs</td>
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<tr>
<td>ANT 3158</td>
<td>3 hrs</td>
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<tr>
<td>ANT 4906</td>
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</tr>
<tr>
<td>ANT 3314</td>
<td>3 hrs</td>
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<tr>
<td>AMH 3441</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AMH 4110</td>
<td>3 hrs</td>
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<tr>
<td>ANH 4112</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AML 3640</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANT 4153</td>
<td>3 hrs</td>
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<tr>
<td>SYD 3752</td>
<td>3 hrs</td>
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<tr>
<td>SYD 3751</td>
<td>3 hrs</td>
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<tr>
<td>SYD 3750</td>
<td>3 hrs</td>
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<tr>
<td>AMH 4110</td>
<td>3 hrs</td>
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<tr>
<td>AMH 4112</td>
<td>3 hrs</td>
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<tr>
<td>AML 3640</td>
<td>3 hrs</td>
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<tr>
<td>ANT 4153</td>
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<tr>
<td>SYD 3752</td>
<td>3 hrs</td>
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<tr>
<td>SYD 3751</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SYD 3750</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.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

ORGANIZATIONAL COMMUNICATION: Minor

College of Arts and Sciences
Nicholson School of Communication, COM 258
communication@ucf.edu

TRA, 407823-2681; Advising: See department.

Credit Hour Requirements (21 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 3120</td>
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<tr>
<td>COM 3311</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3011C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3110</td>
<td>3 hrs</td>
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<tr>
<td>SPC 3425C</td>
<td>3 hrs</td>
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<tr>
<td>COM 4461</td>
<td>3 hrs</td>
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<tr>
<td>COM 4462</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.
- 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.

PHILOSOPHY: Minor

College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu

TBA, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2011</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 2101</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 2101</td>
<td>3 hrs</td>
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<tr>
<td>PHI 3670</td>
<td>3 hrs</td>
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<tr>
<td>PHI 3320</td>
<td>3 hrs</td>
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<tr>
<td>PHI 4341</td>
<td>3 hrs</td>
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<tr>
<td>PHI 4300</td>
<td>3 hrs</td>
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</table>

Disciplinary and Interdisciplinary Knowing (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PHI 3401</td>
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</tr>
<tr>
<td>PHI 3700</td>
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<tr>
<td>PHI 4400</td>
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<tr>
<td>PHI 4420</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 3451</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 3800</td>
<td>3 hrs</td>
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</tbody>
</table>

Applications (6 hrs)

Select two courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 4330</td>
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</tr>
<tr>
<td>PHI 2567</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 3022</td>
<td>3 hrs</td>
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<tr>
<td>PHI 3033</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 3601</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 3638</td>
<td>3 hrs</td>
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<tr>
<td>PHI 3640</td>
<td>3 hrs</td>
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<tr>
<td>PHI 3941</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 4931</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 4633</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 4804</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHM 3100</td>
<td>3 hrs</td>
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<tr>
<td>PHM 3123</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHM 4031</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Upper Division Restricted Elective (3 hrs)

Select an additional course from those listed above or another upper division Philosophy course.

Note: Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by departmental advisor.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- No credit by exam (TSD, Military credit) may be used.

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Minors

PHILOSOPHY, RELIGION AND POPULAR CULTURE: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Advisor (UCF Orlando Campus) Bruce Jans, 407-823-2273
Fax: 407-823-6658;
Advisor (Cocoa Campus) Shelley Park;
The Philosophy, Religion, and Popular culture minor examines popular culture through the critical lenses of philosophy and religious studies. Students Interested In the Liberal Studies major may find this minor particularly helpful. In consultation with a departmental advisor, students will select courses in accordance with the distributions listed below.

Credit hour requirements 21 hours

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 4541 Ways of Knowing

Philosophy (3 hrs)
PHI 2101 Critical Thinking
PHI 3670 Ethical Theory
PHI 3700 Philosophy of Religion
PHI 3800 Aesthetics
PHM 3100 Freedom and Justice
PHI 3720 Faith and Reason
PHP 3786 Existentialism
PHI 4804 Critical Theory
PHI 4300 Theories of Knowledge

Religion (3 hrs)
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 Religion 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 4516 Religion and the Arts
HUM 4330 Performance Theory
PHI 3025 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
Select at least one course:
ANT 3302 Sex, Gender and Culture
HUM 3251 Contemporary Humanities
PHI 3022 Sex, Gender and Philosophy
PHI 3609 Family Values
PHI 3033 Philosophy, Religion and me Environment
PHM 3401 Philosophy of Law
PHI 3638 Ethical Issues in the 21st Century
PHI 3803 Philosophy of Friendship
PHM 3123 Feminist Theories
PHI 4321 Philosophies of Embodiment: Mind/Body/Self
REL 3131 Religion In America
REL 3162 Healing Culture, Art, and Praxis

Other Requirements
- A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used toward the minor.

Internship, Co-op, or Independent Study credit cannot be used toward the minor.

PHYSICS: Minor
College of Arts and Sciences
Department of Physics, MAP 310
http://www.physics.ucf.edu
physics@ucf.edu
Ralph Llewellyn, 407-823-2325

Credit Hour Requirements 20 hrs

Required Courses (11 hrs)
PHY 2048 Physics for Eng and Sci I 3 hrs
PHY 2048L Physics Laboratory for Eng and Sci I 1 hr
PHY 2049 Physics for Eng and Sci II 3 hrs
PHY 2049L Physics Laboratory for Eng and Sci II 1 hr
PHY 3101 Physics for Eng and Sci III 3 hrs

Restricted Upper Division Electives (9 hrs)
Selected from upper-level Physics lecture or laboratory courses appropriate for majors.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

POLITICAL SCIENCE: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://pegasus.cc.ucf.edu/~politics
politics@ucf.edu
Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs

Required Course (3 hrs)
POS 2041 American National Government 3 hrs

Restricted Upper Division Electives (15 hrs)
- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be counted

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

POLITICAL SCIENCE/PRELAW: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://pegasus.cc.ucf.edu/~politics
politics@ucf.edu
Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs

Required Courses (6 hrs)
POS 2041 American National Government 3 hrs
POS 4284 Judicial Process and Politics 3 hrs

Restricted Elective (3 hrs)
INR 4401 International Law I
INR 4402 International Law II
POS 4603 American Constitutional Law
POS 4604 American Constitutional Law II

Restricted Upper Division Electives (9 hrs)
- Three Upper Division Political Science Courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be counted

Other Requirements
PSYCHOLOGY: Minor
College of Arts and Sciences
Psychology Department, PH 302
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
R. Dipboye, 407-823-2216
Undergraduate Advising: Psychology Advising Center, PH 305G, 407-823-2219

The Psychology Department offers minors in several emphasis areas: Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. The guiding principle in design of a minor is to select those Psychology courses which will strengthen the graduate school preparation and/or the marketability of the student's major program. Emphasis areas will not appear on the transcript.

Credit Hour Requirements: 22 hrs

Required Courses: 10 hrs
PSY 2012 General Psychology
STA 2014C Principles of Statistics or
STA 2023 Statistical Methods I
PSY 3213C Research Methods in Psychology

Restricted Electives: 12 hrs of Psychology courses

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Maintain a minimum GPA of “C” (2.0) in the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

PUBLIC ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. Ronnie L. Korosec, 407-823-2732
E-mail: rkorosec@mail.ucf.edu

Credit Hour Requirements: 18 hrs

Required Courses: 18 hrs
PAD 3003 Public Admin in American Society
PAD 4034 The Administration of Public Policy
PAD 4104 Administrative Theory
PAD 4202 Fiscal Management
PAD 4414 Public Personnel Administration
PAD 4720 Survey Research in Public Admin

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.

REAL ESTATE: Minor
(Open to Business and Non-Business Students)
College of Business Administration
Department of Finance, BA 409
http://www.bus.ucf.edu/finance

Credit Hour Requirements: 18 hrs

Prerequisite Courses
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Management Accounting
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics

Required Courses: 12 hrs
FIN 2104 Personal Finance and Investments
FIN 3403 Business Finance
REE 3043 Fundamentals of Real Estate
REE 3433 Real Estate Law

Electives: 6 hrs
REE 4103 Real Estate Appraisal and Valuation
REE 4204 Residential Real Estate Finance
REE 4303 Real Estate Investment Analysis
REE 4732 Real Estate Development
REE 4xxx Commercial Real Estate Finance

Other Requirements
- A student minoring in real estate must earn a grade of “C” (2.0) or higher in each course attempted toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A maximum of 6 hours of required or elective coursework can count toward another major or minor degree program.

RELIGIOUS STUDIES: Minor
College of Arts and Sciences
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
TBA, 407-823-2273

The religious studies minor provides a limited yet coherent range of courses which introduce the student to a range of religious institutions and ideas. Courses are drawn from the departments of Anthropology & Sociology, Art, English, History, Judaic Studies, Philosophy, Political Science, and Psychology, and are to be selected in consultation with the Religious Studies advisor.

Credit Hour Requirements: 21 hrs

Required Courses: 3 hrs
REL 2390 World Religions

Restricted Electives: 18 hrs
See department for approved list of courses

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Director.
Minors

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Credit Hour Requirements 21-22 hrs
Required Courses 18 hrs
One method course, selected from the three immediately below
POS 3703 Scope and Methods of Political Science
PSY 3213C Research Methods in Psychology
SYA 4300 Research Methods

Restricted Electives 3 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.

SOCIOLGY: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro/firstpage.html
sociology@ucf.edu
Jay Corzine, 407-823-2227

Credit Hour Requirements 18 hrs
Required Courses 3 hrs
SYG 2000 General Sociology

Restricted Electives 3 hrs
2000-4000 level Sociology courses

Restricted Upper Division Electives 12 hrs
3000-4000 level Sociology courses

Other Requirements
- Earn a minimum GPA of at least 2.0 in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Co-op or internship credit cannot be used toward the minor.
- No more than 3 hours of Independent Study credit can be used toward the minor.

SPACE STUDIES: Minor
College of Engineering and Computer Science
Department of Mechanical, Materials and Aerospace Engineering, ENGR 307
R.H. Chen, 407-823-2416
Fax 407-823-0208
In response to the needs of the Central Florida space community, UCF offers a multispecialized Minor in Space Studies. It is intended for students of all disciplines and includes courses from aerospace engineering, electrical engineering, environmental engineering, instructional programs, physics, physical education, and political science.

Credit Hour Requirements 21 hrs
Required Courses 9 hrs
AST 2002 Astronomy
EGN 3915C ST: Space Science and Technology
GEO 4131C Remote Sensing of the Environment

Restricted Electives 12 hrs
EAS 3010 Fundamentals of Aerospace Flight
EAS 3101 Fundamentals of Aerodynamics

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.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

SPANISH: Minor
College of Arts and Sciences
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs
Restricted Electives 12 hrs
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).

Other Requirements
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.
- 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 only)
College of Business Administration
DeVos Sports Business Management, BA2 205
F. Polite, 407-823-1158
e-mail: fpolite@bus.ucf.edu

Completion of Common Program Pre-requisites and Admission to a major within the College of Business Administration

Credit Hour Requirements 20 Hrs
Required Courses 8 Hrs
MSB 3XX1 Introduction to Sport Business Management 3 Hours
MSB 3XX2 Diversity and Social Issues in Sport Business Management 3 Hours
MSB 3XX3 Ethics in Sport Business 2 Hours

Restricted Electives 12 Hrs
MSB 4XX1 Event and Facility Management 3 Hours
MSB 4XX2 Intercollegiate Sport Industry 3 Hours
MSB 4XX3 Professional Sport Industry 3 Hours
MSB 4XX4 Sport Business Law 3 Hours
MSB 4XX5 Sport Business and Media 3 Hours
MSB 4XX6 Sport Policy 3 Hours
MAR 4711 Sports Marketing 3 Hours

Other Requirements:
- Students minoring in Sport Business Management must earn a
grade of "C" (2.0) or better in each course applied toward the minor, and a minimum GPA of 2.5 is required in all courses used to satisfy the minor.

- Grades below "B" (3.0) or "S" grades from other institutions are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the DeVos Sport Business Management Program.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit hours cannot count toward the minor.

STATISTICS: Minor
College of Arts and Sciences
Statistics and Actuarial Science Department, CC II 212
http://www.cas.ucf.edu/statistics
statistics@ucf.edu
Nizam Uddin, 407-823-5525

Credit Hour Requirements 18 hrs

Required Courses (9 hrs)
STA 2023 Statistical Methods I 3 hrs
or
STA 3032 Probability and Statistics for Engineers 3 hrs
STA 4163 Statistical Methods II 3 hrs
STA 4164 Statistical Methods III 3 hrs

Restricted Upper Division Electives (9 hrs)
STA xxx-xxxx courses (STA 2023 or STA 3032 or the equivalent cannot be used as a restricted elective)

Other Requirements
- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~voced
Dr. Larry Hudson, ED 122-T, 407-823-2848
Email: lhudson@mail.ucf.edu

The minor in Technical Education and Industry Training provides a limited, but substantive experience in the area of technical education and industry training of adults. The minor is not intended for students admitted to a degree program in the College of Education and does not lead to teacher certification or admission to the College of Education. All courses are offered solely using the Web.

Credit Hour Requirements 18 hrs

Entrance requirements
Junior standing.

Required courses 18 hrs
ADE 4382 Teaching Adult Learners 3 hr
ETV 4368 Advanced Teaching Techniques 3 hr
in Vocational Education
ETV 3062 Professional role of the Vocational Teacher 3 hr
ETV 3367 Evaluation in Vocational Education 3 hr
ETV 4169 Curriculum Development for Industry Training 3 hr
ETV 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
Dr. Ronald Eaglin, ENGR 207

The College of Engineering offers a minor in Technology and Society to interested UCF students. The minor is intended for students not enrolled in the College of Engineering, although students in the College may also be awarded the minor.

Credit Hour Requirements 18 hrs

Suggested Prerequisite Courses
MAC 1105 College Algebra
GEP Cultural and Historical Foundations

Restricted Upper Division Electives
A minimum of nine hours must be taken from the CET/EST/ETI prefix courses listed below

CET 3010 Introduction to Information Technology
EST 2222 Introduction to Photonics
ETI 3671 Technical Economic Analysis
ETI 4205 Applied Logistics
ETI 4635 Technical Administration
ETI 4700 Occupational Safety
ETI 4836 Space Systems Technology
GEO 2370 Resources Geography
LIT 3313 Science Fiction
LIT 4433 Survey of Technical and Scientific Literature
PUP 3203 Environmental Politics
PUP 4503 Government and Science
PUP 4510 Space Policy

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
- Prerequisites for any course must be met prior to enrollment.
- Some courses may have prerequisites not required for the student's major/minor.

THEATRE - GENERAL: Minor
College of Arts and Sciences
Theatre Department, UTC 180
http://www.theatre.ucf.edu
theatre@ucf.edu
Kristina Tollefson, 407-823-2862

Credit Hour Requirements 27 hrs

Entrance Requirement
A successful interview and audition or portfolio review

Required Courses (27 hrs)
Note: The number assigned many courses will change.
Use the Prefix and title to determine the proper course.

THE 2000 Theatre Survey 3 hrs
THE 3090* Theatre Production/Performance I 1 hr
THE 3303 Play Analysis 3 hrs
THE 2091* Theatre Production/Performance II 1 hr
THE 3302 Theatre Production/Performance III 1 hr
THE 3110 Theatre History I 3 hrs
THE 3111 Theatre History II 3 hrs
THE 3305 Dramatic Literature I 3 hrs
THE 2271 Performance Studies 3 hrs
THE 3306 Dramatic Literature II 3 hrs
TPA 2201 Technical Theatre Production 3 hrs
* Course must be taken at UCF

Other Requirements
- Participation on a minimum of one departmental production during both the Fall and Spring terms for four semesters
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 18 hours used in the minor, including those marked by an asterisk, must be earned at UCF.
- 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 is one area of public administration that has seen considerable growth over the past few years. Areas like Central Florida need many professionals who assist government, communities, and private sector planning organizations to provide growth that is environmentally feasible, aesthetically attractive, socially and politically acceptable, technically sustainable, and economically dynamic. This minor looks at all of these diverse and competing interests, and provides the basics for those interested in employment in this area of great demand. Students who pursue a minor in urban and regional planning may find positions as a city planner, urban designer, planning specialist, environmental program manager, or economic development specialist, among others.

Credit Hour Requirements 21 hrs

Required Courses (21 hrs)
- PAD 3330 Urban and Regional Planning 3 hrs
- PAD 4712 Information Systems for Public Managers and Planners 3 hrs
- PAD 4331 Land Use and Planning 3 hrs
- PAD 4334 Urban Design 3 hrs
- PAD 4253 Community and Economic Development 3 hrs
- PAD 4351 Issues in Environmental Program Management 3 hrs
- PAD 4803 Issues in Urban Administration 3 hrs

Suggested Courses
Students in the Minor program are encouraged to take the following courses as electives to enhance their understanding of the field.

ECP 3433 Transportation Economics
ECP 4603 Urban and Regional Economics
TTE 4004 Transportation Engineering

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 Sciences
http://www.cas.ucf.edu/womensstudies
L. M. Logan, 407-823-6502, Email: womensst@ucf.edu

The minor in Women’s Studies provides students with an opportunity to learn about women’s historical and contemporary roles, gain a working knowledge of interdisciplinary feminist scholarship, and reflect critically on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments of Art, Communications, Criminal Justice, English, Exceptional and Physical Education, Health Professions and Physical Therapy, History, Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology and Anthropology, and Theatre.

Credit Hour Requirements 18 hours

Required Core Courses (6 hrs)
- WST 3015 Introduction to Women’s Studies 3 hrs
- Select one course:
  - PHM 3123 Feminist Theories 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without approval of the program coordinator.
- No more than one 2000 level course can be used toward the minor.
CERTIFICATES

ADDITIONS: Certificate
College of Health and Public Affairs
School of Social Work, HPA 1 204
BSW Coordinator, 407-823-2114
socialwk@mail.ucf.edu

This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida but not the certificate program.

Admission Requirement:
This certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the 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 4706 Interventions with Substance Abusers 3 hrs
- SOW 3332 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 4006 Independent Study in Addictions – 3 hrs (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses)

AGING STUDIES: Certificate
College of Health and Public Affairs
School of Social Work, HPA 1 204
BSW Coordinator, HPA 1 204, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. All students must contact the coordinator for planning their internship.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements: 15 hrs
Required Course
- SOW 4906 Independent Study in Addictions - 3 hrs

Required Internship:
Select one
- SOW 4906 Independent Study in Addictions
- HSA 4941 Internship
- PSY 3681 Internship
- SYP 4941 Internship

Electives: 9 hrs
- Students select three additional courses from the following: A maximum of two courses in their major and at least one course must be outside their college.

BEHAVIORAL FORENSICS: Certificate
College of Arts and Sciences
Psychology Department, PH 302
http://pegasus.cc.ucf.edu/~psych

K. Mottarella; 321-433-7892
kmottare@ucf.edu

Other Requirements:
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit), may be used.
- Independent Study cannot be used toward the minor.

AMERICAN SIGN LANGUAGE (ASL): Certificate
College of Health and Public Affairs
Department of Communicative Disorders,
HPA-2, Suite 101
http://www.cohpa.ucf.edu/comdis

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
Email: jschwart@mail.ucf.edu

This certificate is designed to provide students with the conversational competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for undergraduate students majoring in Communicative Disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and, the general public who wish to enhance their ability to communicate with the deaf community and to enhance their employment potential.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements: 14 hrs
Required Courses:
- SPA 4602 Introduction to American Sign Language 3 hrs
- SPA 4603 Intermediate American Sign Language 3 hrs
- SPA 4614C American Sign Language III 4 hrs
- SPA 4615 American Sign Language IV 4 hrs

Other Requirements:
- A minimum grade of "C-" (1.75) is required in each course.
- 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 Communicative Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the certificate.
Certificates

Restricted Upper Division Electives (6 hrs)

Certificates will be awarded only at the time of degree completion.

From Sociology, select one of the following:

SYP 3511 Sociology of Murder
SYP 3562 Soc Perspectives on Domestic Violence
SYP 4521 Criminal Victimization in Society
SYP 4514 Sociology of Violence
SYP 4536 Gangs and Society

From Criminal Justice, select one of the following:

CCJ 3004 Crime in America
CCJ 3024 Criminal Justice System
CCJ 4670 Women and Crime
CJE 4174 Serial Murder & CJ
CCJ 4616 Criminal Profiling in CJ
CCJ 3667 Victims and the CJ System
CCJ 4681 Domestic Violence & the Justice Syst
CCJ 4690 Sex Offenders & the CJ System

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

CHILDREN’S SERVICES: Certificate
College of Health and Public Affairs
School of Social Work, HPA1 204
BSW Coordinator, 407-823-2114

The Children’s Services Certificate is designed to prepare Social Work students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families. 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 4560 Child Abuse Treatment & Prevention 3 hrs
SOW 4510 Field Education* 9 hrs

* Placement with the Department of Children and Families-working with child welfare or placement in an agency that serves children.

NOTE: Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

CRIME ANALYSIS AND CRIME MAPPING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA1 311
Cory Watkins, 407-823-0365
E-mail: watkins@mail.ucf.edu

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)

CJE 3662 Data Management Systems for Crime Analysis 3 hrs
CJE 4663 Crime Analysis I 3 hrs
CCJ 4076 Crime Analysis II 3 hrs

Restricted Upper Division Electives

Select two of the following: (6 hrs)

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
College of Arts and Sciences

Department of Criminal Justice and Legal Studies, HPA1 311; Department of Sociology and Anthropology, PH 403
David Fabianic, 407-823-5940
Fabianic@mail.ucf.edu
John J. Schultz, 407-823-2618
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 hours

Required Courses (12 hrs)

ANT 4521C Forensic Anthropology 5 hrs
ANT 3101 Archaeological Sciences 3 hrs
CCJ 4616 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
SYP3511 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.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIMINAL PROFILING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA1 311
David Fabianic, 407-823-5940
Fabianic@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today’s law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

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 Females 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 minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

CULTURAL TOURISM: Certificate
College of Arts and Sciences
Office of Liberal and Interdisciplinary Studies
http://www.cas.ucf.edu/liberal_studies
ls@mail.ucf.edu

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 3450 Guest Service Management 3 hrs
- HFT 2700 Tourism Management 3 hrs
- HFT 4735 Tourism Geography 3 hrs
- ANT 3438 Anthropology of Tourism 3 hrs

Choose two classes from one of the following areas (6 hrs)
- African American Heritage area (choose two classes)
  - APA 3610 American African Experience
  - APA 4105 documenting African American Heritage
  - SYD 3700 Race and Ethnic Minorities in the United States
- Anthropology area (choose two classes)
  - ANT 2100 Archaeology and the Rise of Human Culture
  - ANT 3212 Peoples of the World
- Cultural Anthropology area (choose two classes)
  - ANT 2410 Cultural Anthropology
  - ANT 3115 Archaeological Method and Theory
  - ANT 3930 Applied Anthropology
- Environmental Tourism area (choose two classes)
  - BOT 3152C Local Flora
  - PCB 3442 Florida Aquatic Ecology
  - INR 4511 International Environmental Law
  - PUP 3203 Environmental Politics
  - PUP 4204 Sustainability
  - SYD 4510 Environmental Sociology
- Latin American area (choose two classes)
  - ANT 3163 Meso American Archaeology
  - ANT 3165 Maya Archaeology
  - ANT 3332 Peoples and Cultures of Latin America
  - ANT 3340 Caribbean Archaeology
  - ARH 4655 Meso American Art
  - CPO 4303 Comparative Latin American Politics
  - LAH 3400 History of Mexico and Central America
  - LAH 3470 History of the Caribbean
  - LAH 3130 Latin American History I
  - LAH 3200 Latin American History II

Other Requirements
- A grade of “C” or above (2.0) is required in each course used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit can not be used toward the certificate without prior permission of the program director.

DIGITAL MEDIA: Certificate
College of Arts and Sciences
CREAT Digital Media Program, VAB 205
http://www.creat.cas.ucf.edu
digitalmedia@creat.cas.ucf.edu
Program Director: J. Michael Moshell, 407-823-6100

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

Entrance Requirement
- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student’s creativity and technical accomplishment is some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

Credit Hour Requirements: 12 hrs

Required Course: (3 hrs)
- DIG 3825 Digital Media Production I

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
- IDS 4703 Digital Media Project II
- (may be repeated for credit)

Other Requirements
- A minimum grade of "C" (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can 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 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 4942 Internship 3 hrs
- **FIN 4942 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 4942 are recommended if the student’s schedule allows it.
- No course grade lower than a C will be accepted for the certificate requirements, and the average GPA for the five courses must be 3.0 or higher.

Certificate in Corporate Finance 12 hrs
- FIN 4414 Intermediate Corporate Finance 3 hrs
- FIN 3470 Financial Statement Analysis OR 3 hrs
- FIN 4424 Adv Topics in Financial Management 3 hrs
- **FIN 4941 Internship 3 hrs
- A minimum overall GPA of 2.0 is required in courses 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.
Certificates

JAZZ STUDIES: Certificate
College of Arts and Sciences
Department of Music, CNH 205
http://www.cas.ucf.edu/music/
music@ucf.edu
K. Keen, 407-823-2869

Certificates will be awarded only at the time of degree completion.
This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.M. Music degree, provided that the student works with an advisor in the program.

Admission Requirement
Student must satisfactorily audition for the Department of Music.

Credit Hour Requirements
13 hrs

Required Courses (13 hrs)
- MUT 3170 Jazz Theory I 2 hrs
- MUT 3171 Jazz Theory II 2 hrs
- MUT 3641 Jazz Improvisation I 2 hrs
- MUT 3642 Jazz Improvisation II 2 hrs
- MUL 2016 Evolution of Jazz 3 hrs
- MUS 4932 Independent Study in Jazz 2 hrs

Other Requirements
- Must complete all course and non-course requirements (recitals and proficiency examinations) of the Music major in order to qualify for the certificate within the degree.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the certificate.
- At least 9 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

JUDAIC STUDIES: Certificate
College of Arts and Sciences
Judaic Studies Program, CNH 201
http://www.cas.ucf.edu/judaic_studies
E-mail: Judaicst@ucf.edu
Moshe Peili, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women’s Studies Programs. Students who desire to minor in Judaic Studies are encouraged to meet with the program director. The certificate in Judaic Studies will be awarded to students completing 15 credits in Judaic Studies.

Credit Hour Requirements
18-26 hrs

Required Courses (or proficiency)

HBR 1220 Elementary Modern Hebrew Lang and Cult I 4 hrs
HBR 1221 Elementary Modern Hebrew Lang and Cult II 4 hrs

Restricted Upper Division Electives

Jewish History
- JST 3144 Dead Sea Scrolls 3 hrs
- JST 3401 The Jewish People I 3 hrs
- JST 3402 The Jewish People II 3 hrs
- JST 3550 Introduction of Modernism into Judaism 3 hrs
- JST 3701 History of the Holocaust 3 hrs

Bible
- JST 3120 Jewish Scriptures 3 hrs
- JST 3125 The Book of Job 3 hrs
- JST 3126 Romantic Love in the Bible 3 hrs

Literature
- JST 3100 The Hebrew Creative Mind 3 hrs
- JST 3751 Literature of the Holocaust 3 hrs

Culture
- JST 3450 Modern Jewish Experience 3 hrs
- JST 3820 Modern Hebrew Culture 3 hrs
- JST 3810 The Jewish National Movement 3 hrs

Language
- HBR 2200 Intermediate Modern Hebrew Language and Culture I 3 hrs
- HBR 2201 Intermediate Modern Hebrew Language and Culture II 3 hrs
- HBR 3410 Conversational Israeli Hebrew 3 hrs

Other courses, including special topics, with the approval of the Director.

Other Requirements

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

LANGUAGE DEVELOPMENT AND DISORDERS: Certificate
College of Health and Public Affairs
Department of Communication Disorders, HPA2, Suite 101
http://www.cohpa.ucf.edu/comdis
UG Coordinator: Jamie Schwartz, 407-823-4798

Language disorders are the most prevalent communication disorder. Typically children, adolescents and adults with language disorders are served via a team approach that includes speech-language pathologists, psychologists, neurologists, pediatricians, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements
13 hrs

Required Courses

- LIN 3716 Language Development: Birth through 8 years 3 hrs
- LIN 3717 Language Development: 9 through 18 years 3 hrs
- LIN 4711 Language Analysis 3 hrs
- LIN 4711L Language Analysis Lab 1 hr
- SPA 4400 Language Disorders Across the Life Span 3 hrs

Other Requirements

- A minimum grade of “C” (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 10 hours used in the program must be earned at UCF with the Department of Communication 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 307S
http://www.mktg.ucf.edu

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements
9 hrs

Restricted to Marketing majors

- MAR 3403 Sales Management 3 hrs
- MAR 4941 (Internship in sales-related position) 3 hrs
- MAR 4231 Retailing Management 3 hrs
- MAR 4941 (Internship in retail-related position) 3 hrs
- MAR 3880 e-Marketing 3 hrs
- MAR 4941 (Internship in “e”-related position) 3 hrs
- MAR 4711 Sport Marketing 3 hrs
- MAR 4941 (Internship in sport-related position) 3 hrs
- MAR 4712 Healthcare Marketing 3 hrs
- MAR 4941 (Internship in healthcare-related position) 3 hrs
- MAR 4841 Services Marketing 3 hrs
- MAR 4941 (Internship in services-related position) 3 hrs

Certificate in Selling and Sales Management
- MAR 3403 Sales Management 3 hrs
- **MAR 4941 (Internship in sales-related position) 3 hrs

Certificate in Retailing Management
- MAR 4231 Retailing Management 3 hrs
- **MAR 4941 (Internship in retail-related position) 3 hrs

Certificate in e-Marketing
- MAR 3880 e-Marketing 3 hrs
- **MAR 4941 (Internship in “e”-related position) 3 hrs

Certificate in Sport Marketing Management
- MAR 4711 Sport Marketing 3 hrs
- **MAR 4941 (Internship in sport-related position) 3 hrs

Certificate in Healthcare Marketing
- MAR 4712 Healthcare Marketing 3 hrs
- **MAR 4941 (Internship in healthcare-related position) 3 hrs

Certificate in Services Marketing
- MAR 4841 Services Marketing 3 hrs
- **MAR 4941 (Internship in services-related position) 3 hrs
Internship or Independent Study credit cannot be used toward the certificate.

No credit by exam (TSD, Military credit) may be used.

At least 12 hours used in the certificate must be earned at UCF.

A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.

**NONPROFIT MANAGEMENT: Certificate**

College of Health & Public Affairs
Department of Public Administration, HPA2 238
http://www.cohpa.ucf.edu/pubadm/

Mary Ann Feldheim, 407-823-2604

The Certificate program will provide basic knowledge in nonprofit management, resource development, volunteer management, strategic planning, and program evaluation for those students interested in nonprofit sector management as a career.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements** 18 hrs

Required Courses (15 hrs)
- PAD 4144 Nonprofit Organizations 3 hrs
- PAD 4148 Volunteer Management 3 hrs
- PAD 4147 Resource Dev. in the Nonprofit Sector 3 hrs
- PAD 4325 Program Eval. Public & Nonprofit Org 3 hrs
- PAD 4153 Strategic Planning & Implementation 3 hrs

Restrictive Elective Course (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.

**SECURITY MANAGEMENT: Certificate**

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311

Jerome Randall, 407-823-2603
E-mail: jrandall@mail.ucf.edu

The security industry is rapidly growing in the State of Florida and in the nation. This area is in need of qualified, innovative managers and leaders to meet the demand 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

Restricted Upper Division Electives (3 hrs)
Select one of the following:
- CCJ 4661 Conflict and Terrorism 3 hrs
- CJE 3444 Crime Prevention 3 hrs
- CJT 3842 Special Security Problems 3 hrs
- PLAS 3027 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.

**TRANSLATION AND INTERPRETATION: Certificate**

College of Arts and Sciences
Modern Languages and Literatures, CNH 505
http://www.cas.ucf.edu/forlang
foreignlanguage@ucf.edu

Maria Redmon, CNH 512, 407-823-5738
Email: mredmon@mail.ucf.edu

**Credit Hour Requirements** 18 hrs

Required Skills
Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses (12 hrs)
- SPT 3800 Span Translation and Interpretation 3 hrs
- SPT 3805 Span Trans & Interp for Mass Com 3 hrs
- SPT 3809 Medical Span Trans/Interp 3 hrs
- SPT 3831 Spanish Legal Trans/Interp 3 hrs

Restricted Upper Division Electives (6 hrs)
- SPN 3933 Spanish Across the Curriculum 3 hrs
- SPN 4941 Internship 3 hrs

Any upper division SPN or SPT course with advisor’s approval

**Other Requirements**
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate.
- Satisfactory completion of translation and interpretation exit exam.

**WOMEN’S STUDIES: Certificate**

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

College of Arts and Sciences
Women’s Studies Program, CNH 201H
L. M. Logan, 407-823-6502,
email: womensst@ucf.edu

The certificate program in Women’s Studies is designed to provide students with a basic, working knowledge of gender roles and women’s issues. The certificate program is open to both degree-seeking and non-degree-seeking students, but should be particularly beneficial to students in professional degree programs who will serve women and/or girls as a client population, but whose elective hours are restricted.

**Credit Hour Requirements** 12 hrs

Required Course: (3 hrs)
- WST 3015 Internship

Restricted Electives (3 hrs)
See listing for minor. Certificate students are exempt from the distribution requirements and should select foundations courses that best complement their major area of study.

Internship Option: (0-3 hrs)
Internships required by a student’s major degree program may count for credit toward the certificate, if placement is substantively related to women and/or women’s issues.

**Other Requirements**
- A GPA of 2.0 or better is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- No more than one 2000 level course can be used toward the certificate.
STUDY ABROAD PROGRAMS

STUDY ABROAD: Programs
http://www.international.ucf.edu
Consuelo Stebbins, 407-823-2472

The Department of Foreign Language and Literatures offers six Study Abroad Programs during the summer session. These programs are approved by the State of Florida Board of Regents and are offered annually. Credit courses are available in languages at various levels. The programs are open to all students of the State University System of Florida and to others as well.

Koblenz, Germany
Koblenz is a charming city located in one of the picturesque regions of Europe, at the junction of the Rhine and Moselle rivers. Since France, Belgium and Luxemburg are very close, the city has always had an international flair. The program is housed at the University of Koblenz and offers courses in German language and civilization at the intermediate and advanced levels; all participants earn 8 credits. A number of spectacular excursions are included. This program takes place during Summer B term.

Amman, Jordan
Modern Amman preserves its ancient past. The Assyrians, the Babylonians, the Greeks, the Arabs, the Jews and the Byzantines have all left evidence of their art, religions and culture. Students earn six credits in intermediate or advanced written and spoken Arabic as well as the history, art, politics and customs of Jordan and the Moslem world.

Urbino, Italy
The city of Urbino, on the slopes of the Eastern Appennines, is one of the major centers for the study of Renaissance art and architecture. The modern university sponsors a number of conventions of learned societies and cultural events in the summer. Courses in Renaissance art and modern Italian letters are given in English; language courses are conducted in Italian. A number of weekend excursions throughout central Italy are included. This popular program takes place during Summer B term.

Madrid, Spain
World-class museums and a lively cultural agenda make Madrid an ideal location. This program is 6 weeks and designed for students who wish to continue their study of the Spanish language and civilization. Language courses will be offered from the intermediate level through the advanced. Classes meet Monday through Friday with several weekend trips to major destinations of cultural and artistic interest in the region. All students take one language, one conversation and one cultural course for 9 credit hours. This program takes place during Summer B.

Amboise, La Rochelle, France
Amboise is a quiet community of 12,000 residents, known for the time that Italian artist Leonardo da Vinci spent in Le Clos Luce, a pink brick manor in Amboise’s center. LaRochelle, on the Atlantic coast, prides itself on 800 years of seafaring history. Courses are offered at the intermediate and advanced levels and students earn 6/9 credit hours. Weekend excursions are planned to various points of interest. This program takes place during Summer B term.

Urayasu, Japan
Urayasu, Chiba Prefecture, is located to the east of Tokyo. This former fishing village on the Bay of Tokyo is now a fast-growing suburb of Tokyo with a population of approximately 135,000. This program offers elementary, intermediate and advanced Japanese language and culture courses at Meikai University. All students will take a language course, and conversation course and a culture course. This program takes place during Summer B term.

ENGLISH STUDY ABROAD: Program
College of Arts and Sciences
Department of Art, Visual Arts Building, 117
Edinburgh, Scotland
Fine Arts
Students register for ART 4906 (4 credits) and enroll in two consecutive weekend courses at the Edinburgh School of Art. Edinburgh is a small friendly city with a wealth of Historic and cultural attractions that inspire the creative spirit.

Mexico City, Mexico
Art History
In Mexico, the clash of the Spanish and the Aztec civilizations a half-millennia ago created a tapestry of religions, customs and rituals. Nowhere is this better reflected than in the art of Mexico City. Students enroll in ARH 3930 in Summer A. The course in Art History incorporates a ten day excursion to Mexico City.

HEALTH STUDY ABROAD
College of Health and Public Affairs
School of Social Work
Health and Public Affairs Building, 204
Pretoria, South Africa
South Africa is rapidly emerging as a leading force on the African continent and an active player on the global stage. Undoing the years of apartheid and worldwide sanctions is a significant undertaking that is accompanied by a myriad of social, political and economic concerns. Johannesburg and Pretoria are the ideal backdrop against which to study the developing South Africa. Graduate and undergraduate students earn 3 credits. Program consists of morning classroom lectures and discussions followed by afternoon field trips that complement each morning’s class topic.
ADMISSION:

A minimum GPA of 2.5 is required for all courses taken in the major and minor.

A minimum grade of 3.0 is required for all graduate courses.

PROGRAM EXIT REQUIREMENTS

Science, Psychology, or Sociology.

REQUIRED MINOR (18 hrs)

1. Core Program Prerequisites (3 hrs)
   - ECO 2013 Microeconomics
   - ECO 2023 Macroeconomics

2. Required Undergraduate Major Courses (15 hrs)
   - ECO 3101 Intermediate Price Theory
   - ECO 3203 Aggregate Econ. Conditions Analysis
   - ECO 3401 Quantitative Business Tools I
   - ECO 3411 Quantitative Business Tools II
   - ECO 4451 Research Methods in Economics

3. Electives (variable)
   - ECO 6XXX Economics Elective

4. Restricted Elective (3 hrs)
   - Select any 3000-4000 level economics elective

5. UCF General Education Program (36 hrs)

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

7. Program Exit Requirements

8. Foreign Language (0-8 hrs)
   - Admission: Met by graduate requirement.

9. Electives (variable)

   Completion of the UCF General Education program or an AA degree from a Florida Public Community College.

   See Common Program Prerequisites.

   3.25 GPA after completion of 80 credit hours.

   1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score.

   Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.

Degree Requirements

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     Required: SPC 1600
   - B. Cultural and Historical Foundations
     9 hrs
   - C. Mathematical Foundations
     Select MAC 1105 College Algebra
     3 hrs
   - D. Social Foundations
     Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
     3 hrs
   - E. Science Foundation
     6 hrs

2. Common Program Prerequisites (3 hrs)
   - ECO 2013 Microeconomics
   - ECO 2023 Macroeconomics
   - * See transfer notes for possible substitutions

3. Required Undergraduate Major Courses (15 hrs)
   - ECO 3101 Intermediate Price Theory
   - ECO 3203 Aggregate Econ. Conditions Analysis
   - ECO 3401 Quantitative Business Tools I
   - ECO 3411 Quantitative Business Tools II
   - ECO 4451 Research Methods in Economics

4. Restricted Elective (3 hrs)
   - Select any 3000-4000 level economics elective

5. Courses shared BA/MAAE (15 hrs)
   - ECO 6043 Mathematical Economics
   - ECO 6118 Microeconomics Analysis
   - ECO 6206 Aggregate Econ. Conditions & Analysis
   - ECO 6424 Econometrics
   - ECO 6XXX Economics Elective
   - * 15 hours can count towards both BA and MAAE

6. Required Minor (18 hrs)
   - Completion of a minor in one of the following:
     Computer Science, History, Mathematics, Statistics, Political Science, Psychology, or Sociology.

7. Program Exit Requirements

8. Foreign Language (0-8 hrs)
   - Admission: Met by graduate requirement.

   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Language and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

   Completion of the UCF General Education program or an AA degree from a Florida Public Community College.

   See Common Program Prerequisites.

   3.25 GPA after completion of 80 credit hours.

   1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score.

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     Select MAC 1105 College Algebra
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   - ECO 2013 Microeconomics
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4. Restricted Elective (3 hrs)
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   - ECO 6206 Aggregate Econ. Conditions & Analysis
   - ECO 6424 Econometrics
   - ECO 6XXX Economics Elective
   - * 15 hours can count towards both BA and MAAE

6. Required Minor (18 hrs)
   - Completion of a minor in one of the following:
     Computer Science, History, Mathematics, Statistics, Political Science, Psychology, or Sociology.

7. Program Exit Requirements

8. Foreign Language (0-8 hrs)
   - Admission: Met by graduate requirement.

   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Language and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

   Completion of the UCF General Education program or an AA degree from a Florida Public Community College.

   See Common Program Prerequisites.

   3.25 GPA after completion of 80 credit hours.

   1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score.

   Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.
## Accelerated Undergraduate-Graduate Programs

**Degree Requirements**

### 1. UCF General Education Program (36 hrs)

- **A. Communication Foundations**
  - Communication Foundations: 9 hrs
- **B. Cultural and Historical Foundations**
  - Cultural and Historical Foundations: 9 hrs
- **C. Mathematical Foundations**
  - Mathematical Foundations: 3 hrs
- **D. Social Foundations**
  - Social Foundations: 3 hrs
- **E. Science Foundation**
  - Science Foundation: 6 hrs

### 2. Common Program Prerequisites

- **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

* At UCF, students who have completed MAC2233 and STA2023 will be waived

### 3. Common Body of Knowledge (30 hrs)

First Semester in the College of Business Administration:
- **GEB 3031** Cornerstone 6 hrs
- **GEB 3356** Introduction to International Business 3 hrs

First or subsequent semesters depending on major:
- **BUL 3130** Legal & Ethical Environ. of Business 3 hrs
- **ECO 3411** Quantitative Business Tools II 3 hrs
- **FIN 3403** Business Finance 3 hrs
- **MAN 3025** Management of Organizations 3 hrs
- **ISM 3011** Essentials of Management Information Systems 3 hrs
- **MAR 3023** Marketing 3 hrs

Last Semester:
- **MAN 4720** Strategic Management 3 hrs

### 4. Required Undergraduate Major Courses (9 hrs)

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

### 5. Restricted Electives (3 hrs)

Select one 3000 - 4000 level elective 3 hrs

### 6. Courses Shared BSBA/MAAE (15 hrs)

- **ECO 6403** Mathematical Economics 3 hrs
- **ECO 6118** Micro Econ Analysis 3 hrs
- **ECO 6206** Aggregate Econ Conditions Analysis 3 hrs
- **ECO 6424** Econometrics 3 hrs
- **ECO 6XX** Economics Elective 3 hrs

### 7. Electives (variable)

Total Semester Hours Required: 120 hours

### 8. Courses taken toward MAAE (9 hrs)

Six to nine additional hours of 6000 level economics electives. A maximum of three hours of an approved non-economics elective may be completed from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering

### 9. End of Program Option 6 hours

- (1) Thesis option, (2) Graduate Internship option, (3) AA Course Work option (see the graduate catalog for a detailed description of the options).

The baccalaureate degree will be awarded when program requirements for the BSBA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MAAE will be awarded on completion of the total program of study.

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**HISTORY ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)**

**College of Arts and Sciences**

**CNH 551, 407-823-2224**

**http://pegasus.cc.ucf.edu/~history**

**Graduate program E-mail: hisgrad@ucf.edu**

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

**Chair: Edmund F. Kallina**

**Graduate Program Coordinator: Hong Zhang**

**Program Name:** History Accelerated

**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.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours (see history major requirements).

**Graduate Degree Requirements**

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students admitted to the accelerated program may take a 5000-level course the first semester of their senior year.
- After successfully completing one 5000-level course, students will be eligible to take HIS 6159 (Historiography) and another 5000-level course or the 6000-level seminar following the 5000-level colloquium they have already completed.
- Students may substitute these nine hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate courses.
- Students need to pay fees at the graduate rate for the graduate courses they take.
- Schedule for students enrolled full-time in the accelerated program:
  - Students complete nine hours of graduate-level courses their senior year.
  - Students enroll in at least three hours of graduate-level course work the semester after they receive their B.A.
## Accelerated Undergraduate-Graduate Programs

### Overall History MA Requirements (36 hrs)
* Nine hours of graduate work are earned in the senior year, in consultation with the history graduate coordinator.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>1. Required Graduate Courses</td>
<td>12 hrs</td>
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<tr>
<td>HIS 6150  Histography</td>
<td>3 hrs</td>
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<td>HIS 6905  Capstone Course</td>
<td>3 hrs</td>
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<td>HIS 6971  Thesis</td>
<td>6 hrs</td>
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<tr>
<td>2. Courses in Area of Concentration (18 hrs)</td>
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<td>courses were taken during the senior year.</td>
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<td>(Eastern Hemisphere: African, Asian, European,</td>
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<td>or Middle Eastern; or Western Hemisphere:</td>
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<td>Caribbean, North American, or South American)</td>
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<td>3. Outside Area of Concentration in History</td>
<td>6 hrs</td>
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<td>4. Foreign Language Requirement</td>
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<td>Students will also be expected to demonstrate</td>
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<td>competency in one foreign language. The foreign</td>
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<td>language competence must be completed one</td>
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<td>semester prior to the thesis defense.</td>
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<td>5. Examination Requirements</td>
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<td>Each candidate for the M.A. in History must</td>
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<td>pass written examinations in two fields upon</td>
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<td>conclusion of regular course work and before</td>
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<td>beginning a thesis. These examinations must be</td>
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<td>taken and passed as part of the requirements for</td>
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<td>student’s thesis committee judge acceptable as</td>
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<td>the preliminary step to beginning the thesis.</td>
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<tr>
<td>Minimum Hours Required for M.A. - 36 Semester</td>
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<tr>
<td>Hours of which also count toward the B.A. degree</td>
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### Related Programs:
- Humanities

### Related Minors:
- African-American Studies
- American Studies
- Asian Studies
- History
- Humanities
- Judaic Studies
- Latin American and Iberian Area Studies
- Middle Eastern Studies
- Russian Area Studies
- Women’s Studies

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

### Acceptable Substitutes:
Common program prerequisites if taken prior to transferring to UCF:
- AMH 2010 & 2020: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However, AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

### LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. AND M.A./M.S.)

#### College of Arts and Sciences
**http://www.cas.ucf.edu/mls/AcceleratedProgram/**

### Liberal Studies Undergraduate Program, CNH 201
Liberal Studies Advising Team, 407-823-0144
E-mail: ls@mail.ucf.edu

The accelerated program allows outstanding Liberal Studies students to earn a B.A. or B.S. degree in as few as five years. Students earn nine hours of graduate credit toward the M.A./M.S. while still an undergraduate, and then earn an additional twenty-four credits after earning the B.A. or B.S. degree.

Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

### Admission Requirements
Acceptance to the university does not constitute admission to the
Accelerated Undergraduate-Graduate Programs

accelerated program. An additional application to the program must be submitted and the student accepted. Contact the Liberal Studies program for application materials. All applicants must meet the following criteria:

- A GPA of 3.25 or higher at UCF in their last 30 upper level credit hours before applying in the second semester of their junior year.
- At least 75 credit hours earned by time of application and 30 upper level credit hours by the end of the application semester. Decision about admission to the program will depend partially on the grades earned in the application semester if the 30 upper level (or 75 overall) credits were not earned previously.
- A GRE score of 1050 or above in the verbal and quantitative sections combined (usually taken in the second semester of the junior year).

Undergraduate Degree Requirements

Undergraduate degree requirements vary by track, and each track's requirements must be checked carefully in the appropriate Liberal Studies degree section.

1. Students who change degree programs and select this major must adopt the most current catalog
2. Students must have declared a Liberal Studies major at least one semester before graduation
3. Co-op or internship credit cannot be used in this major
4. Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
5. Students must earn at least a “C” (2.0) in each restricted elective course
6. Students must consult with a Liberal Studies advisor in order to prepare an application
7. Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
8. No courses can count in more than one subject area or in a subject area and a minor
9. Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

Graduate Degree Requirements

The accelerated Program involves a minimum of 144 credits for completion of both the B.A./B.S. and M.A./M.S. degrees.

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students take nine graduate credit hours during their senior year which substitute for 3000- or 4000-level courses as part of the program requirements.
- Students pay graduate tuition and fees for the nine graduate credit hours.
- All requirements of the undergraduate and graduate degree programs must be fulfilled.
- Students should consult with the Liberal Studies advisor before applying for the program.
- Approval for course substitutions and for graduate courses must be given by the Liberal Studies advisors.
- The B.A./B.S. will be awarded after completing all the requirements for that degree in the undergraduate program.

1. UCF General Education Program (36 hrs)
(See Liberal Studies sections of the catalog for track-specific GEP requirements)

2. Common Program Prerequisites: none

3. Track Requirements

Students complete the requirements of the program based on the track option in Liberal Arts, Liberal Studies, Computer Information Technology, Environmental Studies, or Women’s Studies. See the description in the Liberal Studies sections for full information about each track.

Liberal Studies track (61 hrs)
- Minor 18 hrs
- Two liberal studies areas which include at least 18 upper division hours
- Area 1 18 hrs
- Area 2 18 hrs

Computer Information Technology (CIT) track (54 hrs)
- CIT Minor 36 hrs
- One liberal studies area 18 hrs

Liberal Arts track (51 hrs)
- An approved course in ethics 3 hrs
- An approved course in critical thinking 3 hrs
- Individual minor 24 hrs
- Directed Readings or Honors seminar 3 hrs
- IDS 4970H Thesis 3 hrs

Environmental Studies Track (54 hrs)
- Core or Environmental Studies 23 hrs
- Subject area: Environmental Studies Fundamentals 20 hrs
- Specialized Subject area: Values, Science, Technology, Envir. 18 hrs

Women's Studies Track (54 hrs)
- Women's Studies minor 18 hrs
- One Women's Studies Subject area 18 hrs
- One Liberal Studies Subject area 18 hrs

4. Program Exit Requirements

Liberal Studies, Environmental Studies, and Women's Studies tracks

- A grade of “C” or above (2.0) is required for each course taken in each of the subject areas
- Computer Competency met by CGS 1060C, STA 1060C, or other computer-related course, or departmental assessment in the minor and CIT track
- A grade of “C” or above (2.0) is required for each course taken in the minor and in the subject area.
- Computer Competency met by minor.
- Liberal Arts track
- Maintain a minimum GPA of 3.5 in all Liberal Arts Track courses
- Maintain a minimum GPA of 3.2 in all upper level courses
- Computer Competency is met by IDS 4970H

5. Foreign Language Requirements (0-8 hrs)

Admission-BA: Met by graduation requirement.

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

Graduation-BA: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

Note: Students entering without having met the admission requirement must do so in order to graduate

6. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval.

7. University Minimum Exit Requirements - B.A./B.S.

- 20 UCF GPA
- 60 semester hours earned 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.A./B.S. 120 hours
(including nine graduate credits when completing the 3+2 program).
Overall Liberal Studies M.A./M.S. Requirements (33 hrs)*
* Nine hours of graduate work are earned in the senior year, in consultation with the M.A./M.S. in Liberal Studies program director. (Please see the Graduate Catalog for specific requirements)

Core courses (9 hrs)
- IDS 6309: Ways of Knowing 3 hrs
- IDS 6669: Interdisciplinary Approaches to Research 3 hrs
- IDS 6351: Critical Thinking and Writing 3 hrs

Concentration (18 hrs)
More than 40 concentrations and certificate affiliation programs are part of the M.A./M.S. in Liberal Studies degree. See the graduate catalog for additional information.

Options (6 hrs)

Thesis Option
- Directed Readings 3 hrs
- Thesis 3 hrs
- Thesis defense

Non-thesis Option
- Two approved graduate courses 6 hrs
- Comprehensive exam

Total Hours Required - B.A./B.S. + M.A./M.S. 144 hours

Transfer Notes:
- Grades below “C” (2.0) are not accepted.
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

NURSING (B.S.N.)
RN TO MSN OPTION
College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cooha.ucf.edu/nursing/

Program Coordinator: Linda Hennig

Accelerated program for students who are licensed as an RN and meet general education requirements, prerequisites, and required GPA.

Available for all tracks in the graduate program. Nursing Leadership and Management, Family Nurse Practitioner, Adult Nurse Practitioner, Pediatric Nurse Practitioner, and Clinical Nurse Specialist. (See UCF Graduate Catalog for current offerings.) Up to 15 credit hours may be applied toward meeting requirements of both BSN and MSN programs.

Admission Requirements - Limited Access
Acceptance to the university does not constitute admission to the RN-MSN program. Separate application to this limited access program must be made. Contact the School of Nursing or visit our website for application materials. All applicants must meet the following criteria:

- Graduate of a state-approved or accredited associate degree or diploma nursing program
- Licensure as an RN
- Completion of UCF general education requirements or an AA degree from a Florida community college, including CLAST (or exam)
- Completion of prerequisites for the RN-BSN nursing program
- Minimum cumulative GPA of 3.0
- A minimum combined GRE score of 900 on the verbal/quantitative exams.
- Admitted to UCF undergraduate program
- Three professional references
- Resume
- Letter of Intent

Interim Requirements:
- Maintain a Nursing GPA of 3.0

Admission Requirements for Graduate Nursing Phase: (To be met during the semester the BSN is awarded)
- Application to Graduate Studies
- Completion of all UCF School of Nursing coursework to date with a minimum GPA of 3.0
- An updated resume

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
- UCF Residency Requirement: 30 hours
- The BSN is awarded after completion of 60 hours including specified courses
- The MSN is awarded after program completion
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

BSN Curriculum Changes for the RN to MSN Option:
- An individualized plan of study is developed for each student admitted to the RN to MSN option.
- Students take NUR 4836, Professional Development Seminar, to meet the requirements of NUR 4804, Transitional Concepts of Nursing II and NUR 3165, Critical Inquiry.
- Students take NGR 5800, Nursing Theory
- Students pursuing the MSN in the Nursing Leadership and Management Track may take the following courses:
  - NUR 4838L, Directed Practice in Nursing Administration for NUR 4812, Directed Nursing Practice
  - NGR 5720, Organizational Dynamics for NUR 4827, Leadership and Management Principles
  - NGR 5871, Health Care Informatics
  - NGR/HSA XXXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective)
- Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks may take the following courses:
  - NGR 5003 and NGR 5004L, Advanced Health Assessment, Consultation with the M.A./M.S. in Liberal Studies program director.
  - NGR 5800, Nursing Theory
- Students take NUR 4836, Professional Development Seminar, to meet the requirements of NUR 4804, Transitional Concepts of Nursing II and NUR 3165, Critical Inquiry.
- Students take NGR 5800, Nursing Theory
- Students pursuing the MSN in the Nursing Leadership and Management Track may take the following courses:
  - NUR 4838L, Directed Practice in Nursing Administration for NUR 4812, Directed Nursing Practice
  - NGR 5720, Organizational Dynamics for NUR 4827, Leadership and Management Principles
  - NGR 5871, Health Care Informatics
  - NGR/HSA XXXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective)

1. UCF General Education Program (36 hrs)
- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites 21 hrs
- PSY 2012 General Psychology** GEP
- SYG 2000 Sociology 3 hrs
- MCB 2004C Health Microbiology 4 hrs
- CHM 1032L General Chemistry and lab** GEP
- ZOO 3733C Human Anatomy* 4 hrs
- PCB 3703C Human Physiology 4 hrs
- STA 2023C or 2023 Principles of Statistics** GEP
- SOW 3104 Assessing Human Development or 3 hrs
- DEP 2004 Developmental Psychology 3 hrs
- HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.
**Also meets General Education Requirements.
3. Upper Division Restricted Elective  none

4. Departmental Exit Requirements
Completion of all courses in major with a grade of “B” (3.0) or better
- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

5. Electives  none

6. Foreign Language Requirements  (0-8 hrs)
Admissions: Two years of one foreign language in high school, or
one year of one foreign language in college (or equivalent proficien-
cy exam).
Graduation:  none

7. University Minimum Exit Requirements
(For students exiting after earning BSN.)
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in res-
idency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP,
Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the
CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required BSN  120 hours
Related Programs: Health Services Administration, all health pro-
grams
Related Minors: Aging Studies Certificate, Health Sciences, Health
Services Administration, Psychology
4945L) placements require an elective as a concurrent course.
The University offers eight specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following eight programs: Criminal Justice, Electrical Engineering Technology, Business Administration, Hospitality Management, Computer Engineering Technology - Network Specialization, Liberal Studies, Nursing, and Radiologic Technology. Students who wish to transfer to UCF under the provisions of the statewide articulated A.S. to B.S. programs must meet specific criteria:

1. Students must graduate with the specific program and new A.S. in Fall 2000 or later. (Fall 2003 or later for Criminal Justice or Computer Engineering Technology) from a Florida public community college.

2. Students who have graduated with an A.S. prior to Fall 2000 are not eligible to participate in these programs. The new community college A.S. programs have slightly different requirements. Students who do not have the new A.S. should complete their general education at the community college and then transfer into the appropriate non-A.S. to B.S. program at UCF.

3. Students may only transfer from the specific major to the specific major; e.g., Business Administration to General Business. One cannot, for example, transfer an A.S. in Business Administration to a B.S. in Accounting under this agreement.

4. Students should write on the front of their application for admission to UCF, "A.S. - B.A./B.S." designating their desire to participate in the articulation agreement.

5. UCF will allow students to complete the UCF required General Education courses at their community college while they are enrolled and working on their degree at UCF. However, students cannot be transient in their last 30 hours at UCF.

6. Students with Associate in Applied Science (AAS) degrees are not eligible for participation in these programs unless they also have the appropriate A.S. degree.

Applicants who qualify for this program are not guaranteed admission to the limited access programs in Nursing and Radiologic Sciences or programs that require specific grades in particular courses for admission.

Students should consult with their community college advisor when pursuing one of these programs to make sure they have met all of the appropriate requirements for the degree, including the necessary General Education courses and common program prerequisites. Students are still required to complete all of the components of the Gordon Rule and CLAST prior to graduation from UCF. Students may be required to complete all common program prerequisites for these majors prior to enrollment in upper division course work. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted into these programs must meet the requirements as stated in the programs listed below. Students who change majors out of these programs must adopt the requirements of the most current catalog for the selected major, including the required UCF General Education Program.

Questions concerning the requirements of these majors should be referred to the appropriate academic department or the Director of Transfer Services, (407) 823-2231.

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.coaha.ucf.edu/crim.jus/
Undergraduate Program Coordinator: David Fabianic
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
CJE 4014 Police and Society 3 hrs
CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. Upper Division Restricted Electives (30 hrs)
- 27 additional semester hours of upper division CCJ course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
- 3 additional semester hours of supporting courses to be selected with and approved by the student's advisor. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements (130 hrs)
Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements
Articulated A.S. To B.S. Programs

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

Graduation: none

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

Total Semester Hours Required 130 hours

Related Programs: Legal Studies
Related Minors: Legal Studies, Public Administration, Psychology.

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)

A.S. to B.S.E.E.T. CONCENTRATION

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

ENGR 207

Coordinator: Alireza Rahrooh
407-823-4749, Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
Web Address: http://www.ent.ucf.edu

Admission Requirements
Completion of a Statewide Articulated A.S. in Electrical Engineering Technology from a Florida public community college which is composed of 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
Select MAC 2311 or MAC 2253
D. Science Foundations
4 hrs
Select PHY 2049 and PHY 2049L or PHY 2054C

2. Common Program Prerequisites (CPP) (4 hrs)
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 (18 hrs)
ETG 3541 Applied Mechanics
3 hrs
ETI 3651C Computer Applications
3 hrs
ETI 3671 Technical Economic Analysis
3 hrs
ETI 4035 Technology Administration
3 hrs
ETI 3116 Engineering Quality Assurance
3 hrs
ENC 3241 Technical Report Writing
3 hrs
BSC 1005L or BSC 1050L

4. Upper Level Required Courses (21 hrs)
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
3 hrs

5. Upper Level Technical Electives (6 hrs)
Select six hours from the following:
CET 3144C Applied Microprocessor Technology
3 hrs
CET 4138C Digital Programmable Devices
3 hrs
CET 4433 Computer Organization & Design
3 hrs
EET 4329C Communication Systems
3 hrs
EET 4359C Digital Communications
4 hrs

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

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

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

Total Semester Hours Required: 130 hours

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

Transfer Notes:
- Students transferring from any Florida public institution with an A.A. or with the General Education Program (GEP) requirements of that institution 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/Anl Geom I
MAC 2311 Calc w/Anal Geom I
ETI 3116 Appl Eng Quality Assur
ETI 3651C Applied Mechanics
PHY 2048/L
PHY 2048/L

Spring 16 hrs
ETG 3541 Applied Mechanics
ETI 3651C Computer Applications
ETI 3671 Technical Economic Analysis
ETI 4035 Technology Administration
ETI 3116 Engineering Quality Assurance
ETG 4950C Senior Design Project

Summer 10 hrs
ETI 3116 Appl Eng Quality Assur
BSC 1005L or BSC 1050L
Cultural/Historical Foundation

Senior Year

Fall 13 hrs
EET 4548 Power Systems
EET 4138C Linear Int Cir
MAC 2312, 2254 or MAP 3401
EST 4227 Photonic Sensors

Spring 12 hrs
EET 4548 Power Systems
EET 4138C Linear Int Cir
MAC 2312, 2254 or MAP 3401
EST 4227 Photonic Sensors

Summer 9 hrs
ETI 3651C Computer Applications
ETG 4950C Snr Design Project
ENC 3241 Writing Tech Pros

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.

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Summer 9 hrs
ETI 3651C Computer Applications
ETG 4950C Snr Design Project
ENC 3241 Writing Tech Pros

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.
## Articulated A.S. To B.S. Programs

### 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.

### 10. Electives*** (variable)

Must be outside the College of Business

### Total Semester Hours Required

132 hours

### Community College Transfer Notes

- **Common Program Prerequisites for the State University System** for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.

- **Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or better in each common program prerequisites class.**

- **ACG X001 and X011 will substitute for ACG 2021 at UCF**

- **A minimum of 12 semester hours must be completed at UCF within each individual major.**

- **Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.***

***General electives as required to reach 132 semester hours.

### Degree Requirements

#### 1. UCF General Education Program (12 hrs)

- Students will complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:
  - A. Communication Foundations - Required SPC 1600
  - B. Cultural and Historical Foundations
  - C. Mathematical Foundations
  - D. Social Foundations
  - E. Science Foundation

#### 2. Common Program Prerequisites

- Must be completed with a "C" (2.0) or better:
  - ACG 2021 Principles of Financial Accounting
  - ACG 2071 Principles of Managerial Accounting
  - ECO 2013 Macroeconomics
  - ECO 2023 Microeconomics
  - MAC 2233 Concepts of Calculus
  - STA 2023 Statistical Methods
  - CGS 2100C Computer Fundamentals for Business

#### 3. Required for All Business Majors (30 hrs)

- First Semester in the College of Business Administration:
  - GEB 3031 Cornerstone
  - GEB 3356 6 hrs
  - Introduction to International Business

- First or subsequent semesters depending on major:
  - BUL 3130 Legal & Ethical Environments of Business
  - ECO 3411 Quantitative Business Tools II
  - FIN 3403 Business Finance
  - MAN 3025 Management of Organizations
  - ISM 3011 Essentials of Management
  - MAR 3023 Marketing

- Last Semester:
  - MAN 4720 Strategic Management

#### 4. Special college and/or department requirements:

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB. Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

#### 5. Second Level Core (5 courses):

Students must take one course from each of the following areas:

| Accounting | ACG 3101 | Intermediate Accounting I |
| Economics  | ECP 4703 | Managerial Economics |

### Finance

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>FIN 3303</td>
<td>Financial Markets</td>
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<tr>
<td>FIN 3414</td>
<td>Intermediate Corporate Finance</td>
</tr>
<tr>
<td>FIN 3504</td>
<td>Investment Analysis</td>
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### Management

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MAN 4240</td>
<td>Organizations: Theory and Behavior</td>
</tr>
<tr>
<td>MAN 3301</td>
<td>Management of Human Resources</td>
</tr>
</tbody>
</table>

### Marketing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MAR 4156</td>
<td>International Marketing</td>
</tr>
<tr>
<td>MAR 4841</td>
<td>Service Marketing</td>
</tr>
<tr>
<td>MAR 3613</td>
<td>Marketing Research and Analysis</td>
</tr>
<tr>
<td>MAR 3403</td>
<td>Sales Force Management</td>
</tr>
</tbody>
</table>

### 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)**

## 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)

<table>
<thead>
<tr>
<th>College of Business Administration</th>
<th>BA 240, 407-823-2184</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.bus.ucf.edu">http://www.bus.ucf.edu</a></td>
<td></td>
</tr>
<tr>
<td>Faculty Advisor: B. M. Moore, BA 325, 407-823-5256</td>
<td></td>
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</table>

### Admission Requirements

Completion of a Statewide Articulated A.S. in Business Administration from a Florida public community college which is composed of 64 hours of course work, including at least 24 hours of transferable General Education courses.

### Degree Requirements

#### 1. UCF General Education Program (12 hrs)

- Students will complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:
  - A. Communication Foundations - Required SPC 1600
  - B. Cultural and Historical Foundations
  - C. Mathematical Foundations
  - D. Social Foundations
  - E. Science Foundation

#### 2. Common Program Prerequisites

- Must be completed with a "C" (2.0) or better:
  - ACG 2021 Principles of Financial Accounting
  - ACG 2071 Principles of Managerial Accounting
  - ECO 2013 Macroeconomics
  - ECO 2023 Microeconomics
  - MAC 2233 Concepts of Calculus
  - STA 2023 Statistical Methods
  - CGS 2100C Computer Fundamentals for Business

#### 3. Required for All Business Majors (30 hrs)

- First Semester in the College of Business Administration:
  - GEB 3031 Cornerstone
  - GEB 3356 6 hrs
  - Introduction to International Business

- First or subsequent semesters depending on major:
  - BUL 3130 Legal & Ethical Environments of Business
  - ECO 3411 Quantitative Business Tools II
  - FIN 3403 Business Finance
  - MAN 3025 Management of Organizations
  - ISM 3011 Essentials of Management
  - MAR 3023 Marketing

- Last Semester:
  - MAN 4720 Strategic Management

#### 4. Special college and/or department requirements:

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB. Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

#### 5. Second Level Core (5 courses):

Students must take one course from each of the following areas:

| Accounting | ACG 3101 | Intermediate Accounting I |
| Economics  | ECP 4703 | Managerial Economics |

### Finance

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 3303</td>
<td>Financial Markets</td>
</tr>
<tr>
<td>FIN 3414</td>
<td>Intermediate Corporate Finance</td>
</tr>
<tr>
<td>FIN 3504</td>
<td>Investment Analysis</td>
</tr>
</tbody>
</table>

### Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 4240</td>
<td>Organizations: Theory and Behavior</td>
</tr>
<tr>
<td>MAN 3301</td>
<td>Management of Human Resources</td>
</tr>
</tbody>
</table>

### Marketing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 4156</td>
<td>International Marketing</td>
</tr>
<tr>
<td>MAR 4841</td>
<td>Service Marketing</td>
</tr>
<tr>
<td>MAR 3613</td>
<td>Marketing Research and Analysis</td>
</tr>
<tr>
<td>MAR 3403</td>
<td>Sales Force Management</td>
</tr>
</tbody>
</table>

### 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.

### 10. Electives*** (variable)

Must be outside the College of Business

### Total Semester Hours Required

132 hours

### Community College Transfer Notes

- **Common Program Prerequisites for the State University System** for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.

- **Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.**

- **ACG X001 and X011 will substitute for ACG 2021 at UCF**

- **A minimum of 12 semester hours must be completed at UCF within each individual major.**

- **Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.***

***General electives as required to reach 132 semester hours.
HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Admission Requirements
Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements

1. UCF General Education Program (GEP) (18 hrs)
   Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundation

2. Common Program Prerequisites (3 hrs)
   HFT 1000 Introduction to Hospitality Management 3 hrs

3. Hospitality Management Core (27 hrs)
   CGS 2100C Computer Fundamentals of Business or STA 2023 Statistical Methods I (GEP)
   or ECO 2013 Microeconomics or ECO 2023 Microeconomics (GEP)
   MAC 1305 College Algebra (GEP)
   HFT 3540 Guest Services Management 3 hrs
   HFT 3431 Hospitality Managerial Accounting 3 hrs
   HFT 4295 Leadership and Strg Mgmt in Hospitality Industry 3 hrs
   HFT 4286 Hospitality Communications 3 hrs
   HFT 4462 Hospitality Industry Finance 3 hrs
   HFT 3942 Internship 1 hr
   HFT 4941 Internship 1 hr
   HFT 3933 Distinguished Lectures in Hosp. Mgt. 1 hr

Select 3 of the following 4 courses to complete the core

HFT 3700 Tourism Management 3 hrs
HFT 3261 Restaurant Management 3 hrs
HFT 3273 Principles of Resort Time Sharing 3 hrs
HFT 4755 Theme Park and Attraction Mgmt 3 hrs

4. Special School Requirements:
   - Grades of "C-" (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
   - It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
   - Final exams will be given during Exam Week only.
   - The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

5. Restricted Electives (15 hrs)
   Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the six specialized career tracks as outlined below.

A. Generalist Track (15 hrs)
   Choose five advanced courses from the following list:
   HFT 3313 Hospitality Physical Plant Management 3 hrs

B. Event Management Track – Choose 5 Courses (15 hrs)
   HFT 4753 Convention and Conference Services 3 hrs
   HFT 4754 Exhibit and Trade Show Operations 3 hrs
   HFT 3802 Catering Management 3 hrs
   HFT 3741 Meeting Management 3 hrs
   HFT 3757 Event Management 3 hrs
   HFT 3511 Convention and Conference Sales 3 hrs
   HFT 4795 Entertainment Arts and Events 3 hrs
   HFT 4537 Advanced Trade Show Management 3 hrs

C. Vacation Ownership Resort Management Track (15 hrs)
   HFT 4275 Development of Vacation Ownership Resorts 3 hrs
   HFT 4274 Vacations Ownership Resort Management 3 hrs
   HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs

Hospitality Facilities Planning & Design 3 hrs
Hospitality Business Consulting 3 hrs
Hotel Development Analysis 3 hrs
Management of Gaming Enterprises 3 hrs
Multi-Unit Food Service Organizations 3 hrs
Beverage Management 3 hrs
Supply and Procurement Management 3 hrs
Corporate Contract & Managed Services Orgs 3 hrs
Intermediate Techniques of Food Production 3 hrs
Catering and Banquet Organization 3 hrs
Convention & Conference Services 3 hrs
Exhibit & Trade Show Operations 3 hrs
Vacation Ownership Resort Management 3 hrs
Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
Vacation Ownership Resort Reservations/ Data Base Systems 3 hrs
Product Development in Theme Parks and Attractions 3 hrs
Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
Case Studies in Multi-Unit Restaurant Mgmt 3 hrs
Food, Beverage and Labor Cost Controls 3 hrs
Hospitality Industry Auditing 3 hrs
Technology Applications for Management 3 hrs
Decision Making 3 hrs
Hotel Operations 3 hrs
Culture and Cuisine 3 hrs
Amusement Technology 3 hrs
Catering Management 3 hrs
Cruise Line Operations and Management 3 hrs
Food Service Marketing Advertising and Promotion Management 3 hrs
Franchising in the Restaurant Management 3 hrs
Law and Restaurant Management 3 hrs
Multi Media Applications in Expositions 3 hrs
Topics in Restaurant and Foodservice Mgmt 3 hrs
Advanced Trade Show Management 3 hrs
Anheuser Busch Seminar in Quality 3 hrs
Brewing and Fine Beer 3 hrs
Financial Analysis for Restaurant Managers 3 hrs
Managing the Guest Experience in Theme Parks and Attractions 3 hrs
Operational Issues in the Theme Park and Attraction Industry 3 hrs
Restaurant Leadership Strategies and Tactics 3 hrs
Restaurant Real Estate, Site Selection and Modeling 3 hrs
Yacht, Country, and City Club Management 3 hrs
International Restaurant Corporate Mgmt 3 hrs
Convention and Conference Sales 3 hrs
Reservations Sales & Marketing 3 hrs
Training and Performance in the Food Svc Ind 3 hrs
Entertainment Arts and Events 3 hrs
Exploring Wines of the World 3 hrs
History of Wine and Culture 3 hrs
International Gastronomy 3 hrs

2005-2006 Undergraduate Catalog
D. Theme Park and Attraction Mgmt Track – Choose 5 Courses (15 hrs)

HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
HFT 4758 Contemporary Issues in the Theme Park andattraction Industry 3 hrs
HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs
HFT 3757 Event Management 3 hrs
HFT 3795 Entertainment Arts and Events 3 hrs

E. Tourism Management Track (15 hrs)

HFT 4735 Tourism Geography 3 hrs
HFT 4722 Travel Agency Management 3 hrs
HFT 4762 Current Practices in the Airline Industry 3 hrs
HFT 4754 Exhibit & Trade Show Operations 3 hrs
HFT 3757 Event Management 3 hrs

F. Lodging Management Track (15 hrs)

HFT 3913 Hospitality Plant Management 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 4253 Hotel Operations 3 hrs
HFT 3515 Reservations Sales & Marketing 3 hrs

G. Hospitality Financial Management and Technology (15 hrs)

HFT 4442 Vacation Ownership Resort Reservations/ 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 3 hrs

6. Foreign Language Requirements (0-8 hrs)

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

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

8. Electives (variable)

9. Cooperative Education

500 hours of supervised work experience

Total Semester Hours Required 124 hours

Community College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Rosen College of Hospitality Management.
- ACG X001 and X011 will substitute for HFT 2403 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

- The College may allow substitutions for Hospitality classes taken at the community college. Students should check with the Rosen College of Hospitality Management College for approval of substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science Engineering Technology (ENT) Department

ENGR 207

Coordinator: Bahman Motlagh
407-823-4748 Fax: 407-823-4746
http://www.ent.ucf.edu

Admission Requirements

Students 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 (36 hrs)

- Communication Foundations 9 hrs
- Critical Thinking and Historical Foundations 9 hrs
- Cultural and Historical Foundations 9 hrs
- Mathematical Foundations 6 hrs
- Science Foundations 6 hrs

2. Engineering Technology Core Courses (26 hrs)

- ETI 3651C Computer Applications 3 hrs
- CET 3010 Intro to Info Technology 3 hrs
- STA 2023 Statistical Methods I 3 hrs
- ETI 4489 Applied Proj Mgmt 3 hrs
- ENC 3241 Writing for the Technical Professional 3 hrs
- EET 3085C Electricity & Electronics 4 hrs
- CET 3323C Digital Technology 4 hrs
- CET 2364 Systems Applications in C 3 hrs

3. Lower Level Required Courses Taken at Community College (33 hrs)

4. Required Technical Courses (21 hrs)

- CET 4427 Applied Database I 3 hrs
- CET 3383 Applied Systems Analysis I 3 hrs
- CET 4505 Applied Operating Systems I 3 hrs
- CET 3752 Intro to Telephony 3 hrs
- CET 4483 Intro to Local Area Network 3 hrs
- CET 4333 Computer Organization & Design 3 hrs
- CET 4748 Wide Area Networks I 3 hrs

5. Technical Electives (12 hrs)

Choose four from the following:

- CET 3196C Digital Systems 3 hrs
- CET 4138C Digital Programmable Devices 3 hrs
- CET 4931 Current Topics in Technology 3 hrs
- CET 4749 Wide Area Network II 3 hrs
- MAP 3401 Problem Analysis 3 hrs
- CET 4523 Applied Systems Analysis II 3 hrs
- CET 4429 Applied Database II 3 hrs
- CET 4563 Web Base Systems I 3 hrs
- CET 4584 Web Base Systems II 3 hrs
- CET 4663 Computer & Networks Security 3 hrs
- STA 5937 Data Mining I 3 hrs

6. Departmental Exit Requirements none
Articulated A.S. To B.S. 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. Approved Technical Electives
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

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

Total Semester Hours Required: 128 hours
Related Programs: none
Related Minors: none
Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

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

Junior Year
Fall 14 hrs
- EET 3085C Elect & Electronics 4
- CET 3323C Digital Tech 4
- CET 3010 Intro to Info Tech 3
- CET 2364 Systems Apps in C 3
Spring 12 hrs
- CET 4483 Intro to Telephony 3

Summer 9 hrs
- CET 4333 Comp Org & Design 3
- ENC 3241 Tech Rept Writing 3
- ETI 4448 Applied Proj Mgmt 3

Senior Year
Fall 12 hrs
- CET 4505 Appl Oper Sys I 3
- CET 4427 Appl Database I 3
- CET 3752 Intro to Telephony 3
- CET 4748 Wide Area Networks I 3
Spring 12 hrs
- CET 4483 Intro to Local Area Net 3
- Tech Elective 3
- Tech Elective 3

LIBERAL STUDIES (B.S.)
A.S. TO B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
Liberal Studies Advising Team, 407-823-0144
The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements
Completion of an A.S. degree from a Florida public community college that is composed of (at least) 60 credit hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements
- Students who change degree program and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major. No independent studies from outside UCF can be used.
- Students must earn at least a “C” (2.0) in each restricted elective course
- Students must consult with a Liberal Studies advisor to enter the program
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degrees(s) and/or major(s), including any minors associated with that degree
- Students must complete a minimum of 60 credit hours at UCF (including up to 18 hours to complete the GEP, 18 upper level hours in one area of restricted electives, and 30 upper level credit hours in a minor and elective hours)

1. UCF General Education Program (GEP) (18 hrs)
Students will complete 18 hours of selected General Education courses at UCF. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
- Communication Foundations
- Cultural and Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundation

2. Common Program Prerequisites
none

3. Restricted Electives (36 hrs)
Students must complete one subject area concentration of eighteen upper-level credit hours from among those specified below
Students must have sufficient work in the community college for a second subject area concentration of eighteen credit hours as determined by the Liberal Studies office
Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit
Students are required to take a minimum of 18 UCF hours, as well as 18 upper-division hours, in the two areas combined
See the Liberal Studies Advising Team for details regarding each area.

<table>
<thead>
<tr>
<th>Biological Sciences</th>
<th>Commerce</th>
<th>Computer Science</th>
<th>Education</th>
<th>Engineering</th>
<th>Health</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

Mathematical Sciences
Physical Sciences
Public Affairs*

The Public Affairs area requires taking certain courses to qualify. Please see an advisor.

4. Required Minor (18 hrs minimum)

Students must complete a minor from those offered at UCF that qualify in the B.S. area. A list of these minors is available in the Liberal Studies office as part of the A.S. to B.S. degree advising sheet. The minor cannot overlap with the two subject areas. The minimum number of credit hours for a minor is eighteen at the upper level. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

5. Program Exit Requirements

A grade of “C” or above (2.0) is required for each course taken in each of the subject areas, including those at the community college. Computer competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

6. Foreign Language Requirements

Admission-BS: Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation -BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement. Note: Students entering without having met the admission requirements must do so in order to graduate.

7. Electives (variable)

Select from upper level courses, with Liberal Studies advisor’s approval.

8. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hours

Related Programs: Computer Information Technology Track, Liberal Arts Track, Environmental Studies Track, Women’s Studies Track

Related Minors: most UCF minors

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

NURSING (B.S.N.)

A.S. TO B.S.N. TRACK

(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/

RN-BSN Coordinator: Linda Hennig
E-mail: ucfnurse@mail.ucf.edu

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program. Separate application to the limited access program must be made directly to the School of Nursing. All applicants must have:

- A minimum overall GPA of 2.5
- Completion of a Statewide Articulated A.S. in Nursing from a Florida public community college which is composed of 72 hours of course work, including at least 18 hours of transferable General Education courses (graduation 12/00 or later)
- Current RN License or license eligible

Degree Requirements

- Completion of all common program prerequisite courses with at least a grade of “C” (2.0) or better
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida community college or other universities and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing Major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 32 hours

1. UCF General Education Program (18 hrs)

Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with 18 hours of General Education courses completed as part of the articulated A.S.

Student must complete all General Education and foreign language admissions requirements prior to NUR 4084. Students completing the General Education requirements at a Florida community college must complete those courses prior to their last 30 hours at UCF.

2. Common Program Prerequisites (21 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012</td>
<td>General Psychology**</td>
<td>GEP</td>
</tr>
<tr>
<td>SYG 2000</td>
<td>Sociology**</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MCB 204C</td>
<td>Health Microbiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 102L</td>
<td>General Chemistry and Lab**</td>
<td>GEP</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3730C</td>
<td>Human Physiology*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 204C</td>
<td>Principles of Statistics**</td>
<td>GEP</td>
</tr>
<tr>
<td>or 2023</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>SOW 3104</td>
<td>Assessing Human Development or</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>or DEP 2004</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>HUN 3011</td>
<td>Human Nutrition</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

* May take Anatomy and Physiology sequence of six-eight total credits;
**Also meets General Education Requirements; See a UCF Nursing advisor for possible course substitutions.

3. Core Requirements (55 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3065</td>
<td>Transitional Concepts in Nursing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 305L</td>
<td>Health Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3165</td>
<td>Nursing Research/Critical Inquiry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4084</td>
<td>Transitional Concepts in Nursing II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4636</td>
<td>Community as Continuum of Care</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>Clin Prac in Comm-Oriented Nursing</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4827</td>
<td>Leadership and Management Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4837</td>
<td>Health Care Issues, Policy, &amp; Econ</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4812</td>
<td>Directed Nursing Practice</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Validation Credit</td>
<td></td>
<td>28 hrs</td>
</tr>
</tbody>
</table>
Articulated A.S. To B.S. Programs

4. Restricted Elective
   NUR XXXX  Any Nursing Elective 3 hrs

5. Departmental Exit Requirements
   Completion of all courses in major with a grade of "C" (2.0) or better
   - UCF GPA of 2.5 or above
   - School of Nursing GPA of 2.5 or above

6. Electives
   variable

7. Foreign Language Requirements
   (0-8 hrs)
   Admission: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent proficiency
   exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA and a 2.5 Nursing Major GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, and the CLAST

Total Semester Hours Required 128 hours

Related Programs: Health Services Administration, Social Work, all health programs
Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Progression requirements:
   Prior to NUR 3805:
   RN status or eligible to take NCLEX.
   Prior to NUR 3165:
   Complete NUR 3805 and Statistics course with grade of “C” (2.0) or better.
   Prior to NUR 4084:
   Be admitted to the Nursing program
   Complete General Education requirements from a Florida state community college or university (SUS)
   Complete CLAST
   Complete foreign language admission requirement

RADIOLOGIC SCIENCES (B.S.)
A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs
HPA2 210, 407-823-2747
Undergraduate Program Director: Thomas Edwards
E-mail: tedwards@mail.ucf.edu
http://www.cohpa.ucf.edu/health/pro/radtransfer.cfm

Admission Requirements - Limited Access
Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program. Separate application to the limited access program must be made directly to the program.

- Criminal history information (background check) must be submitted. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.
- 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 (21 hrs)
   A. Communication Foundations
      Select ENC 1102, SPC 1600 6 hrs
   B. Cultural Historical Foundations
      Select HUM 1113, ART 1113 6 hrs
   C. Mathematical Foundations
      MAC 1105 (Completed at CC) 0 hrs
      STA 2023 (Core Requirement) 3 hrs
   D. Social Foundations
      Select ECO 1201 or ECO 2023 or POS 2041 6 hrs
   E. Science Foundations
      Select PHY 2053C 6 hrs
      Select BSC 2010C
   Note: PHY 2053L must be taken as a corequisite to PHY 2053C

2. Common Program Prerequisites
   CGS 1000C Introduction to Computer Science 3 hrs
   PCB 2083C Human Physiology* 3 hrs
   PHY 2053C College Physics I 3 hrs
   MAC 1105 (Completed at CC) 1 hrs
   STA 2023 (Core Requirement) 3 hrs
   Select BSC 2010C CC courses completed as part of the approved A.S. program GEP and core courses with the exception of PHY 2053C and 2054C.
   * See Transfer Notes

3. Core Requirements (33 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 3504 Clinical Education I 4 hrs
   RTE 3513C Radiographic Procedures II 3 hrs
   RTE 3457C Principles of Radiographic Exposure II 3 hrs
   RTE 3684C Physics of Image Production 2 hrs
   HSC 3540 Health Law 3 hrs
   RTE 3308 Medical Physics 3 hrs
   STA 2023 Statistical Methods I 3 hrs
   HSC 4550 Pathophysiologic Mechanisms 3 hrs
   Senior Level
   RTE 4563 Special Radiographic Procedures 2 hrs
   RTE 4782 Radiophysicsology 2 hrs
   RTE 4614L Clinical Education II 5 hrs
   RTE 4524L Clinical Education III 6 hrs
   RTE 4573 Advanced Imaging Modalities 3 hrs
   RTE 4834 Clinical Education IV 4 hrs
   RTE 4385 Radiobiology 1 hr
   RTE 4844 Clinical Education V 4 hrs
   RTE 4473 Quality Improvement 3 hrs
   RTE 4762 Anatomy for the Medical Imager 3 hrs
   RTE 4206 Leadership in Radiologic Sciences 3 hrs
   RTE 4684 Advanced Clinical Practicum 2 hrs

4. Upper Division Restricted Electives:
   RTE 4209 Radiological Adm. Practice 2 hrs
   RTE 4500 Directed Study Radiologic Education 2 hrs
   Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

5. Program Exit Requirements (124 hrs)
   A minimum overall GPA of 2.50 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continu-
6. Electives

none

7. Foreign Language Requirements

(0-8 hrs)

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

Graduation: none

8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (124 hours)

The total hours required for the A.S. to B.S. articulated Radiologic Sciences degree shall be no more than 132 credit hours.

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration

Common Course Numbering System

The University course numbering system is as follows:

0-099  Subcollegiate level and not counted in meeting degree requirements.

1000-2999 Freshman and sophomore level courses and are designated primarily for these students.

3000-4999 Junior and senior level courses (upper-division) and are designated primarily for these and other advanced students. When approved for inclusion in an individual program of graduate study by a supervisory committee approved by the Office of Graduate Studies, selected 4000-4999 courses may serve the needs of individual graduate students.

5000-5999 Beginning graduate and advanced undergraduate level courses - open to graduate students and those seniors who receive approval of the appropriate Dean(s).

6000-6999 Courses open only to graduate students. (Seniors, within nine hours of graduation that have a minimum 3.0 GPA, and do not register for more than twelve hours may request college permission to take a 6000-level class.)

7000-7999 Doctoral-level courses.

Florida’s Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by 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.

Related Minors: Health Services Administration

Transfer Notes:
Credit by Examination - 23 credit hours of credit by exam for clinical education courses will be awarded to Registered Technologists certified by the American Registry of Radiologic Technologists (ARRT) who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated by registration in multiple disciplines, registration in an advanced level of certification, or completion of the Advanced Clinical Practicum course. If competency is not successfully demonstrated, additional clinical coursework may be required. Students who successfully complete the requirements for credit by exam will be awarded a grade of “S” for the clinical education courses required in their program of study. Credit by exam for didactic courses will be awarded according to the process described in the UCF catalog.

Community College Equivalents:
- Human Anatomy and Physiology I and II (BSC 2085C and BSC 2086C) 8
- College Algebra (MAC 1105) 3
- College Physics I (PHY 2043C) 4
- College Physics II (PHY 2044C) 4
- Introduction to Computer Science (CGS 1060C) or any other Computer Science course 3

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 on the following page.)

For example, a survey course in social problems is offered by 34 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology."

<table>
<thead>
<tr>
<th>Example of Course Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prefix</strong></td>
</tr>
<tr>
<td>SYG</td>
</tr>
<tr>
<td>Sociology, General</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>
In science and other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course. The “L” represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which may meet at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college while the same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university upon transfer. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution to offer transfer credit for courses successfully completed which have not been designated as equivalent.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the prefix designation.

Authority for Acceptance of Equivalent Courses

State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

When a student transfers among postsecondary institutions that are fully accredited by a national or regional accrediting agency recognized by the United States Department of Education and that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The award of credit may be limited to courses that are entered in the course numbering system. Credits so awarded shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

The following rules are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

- A. Courses in the 900-999 series (e.g., HUM 2905)
- B. Internships, practica, clinical experiences, and study abroad courses
- C. Performance or studio courses in Art, Dance, Theater, and Music
- D. Skills courses in Criminal Justice
- E. Graduate courses
- F. Courses not offered by the receiving institution

College preparatory and vocational preparatory course may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to (Name of Institution Statewide Course Numbering System Contact) in the Office of Instructional Support. A special report and technical information may be requested by calling 850-245-0427 or SunCom 205-0427.

The prefixes are:

- ABE Agricultural and Biological Engineering
- ABE Agricultural Economics and Business
- AER Automotive Mechanics
- AFA Afro-American Studies
- AFH African History
- AFR Aerospace Studies
- AFS African Studies
- AGR Agronomy
- AKA Akan
- ALS Agriculture and Life Sciences
- AMH American History
- AML American Literature
- AMS American Studies
- AMT Aviation Maintenance Technology
- ANG Anthropology - Graduate
- ANS Animal Science
- ANT Anthropology
- AOM Agricultural Operations Management
- APA Applied Accounting
- APB Applied Biology
- ARA Arabic Language
- ARC Architecture
- ARD Architectural Design
- ARE Art Education
- ART Art
- ARV "Art, "Vocational"
- ASC Aviation Science: General
- ASG Animal Science: General
- ASH Asian History
- ASN Asian Studies
- AST Astronomy
- ATE Animal Science Technology
- ATK Aviation Technology: Flight
- ATT Aviation Technology: Theory
- AVM Aviation Management
- AVS Avionics
- AYM Aymara Language
- BAN Commercial Banking (AIB Courses Only)
- BCA Building Construction Apprenticeships
- BCC Basic Clinical Clerkships (Required)
- BCH Biochemistry (Biophysics)
- BCR Biotechnology (Biophysics)
- BCN Building Construction
- BCT Building Construction Trades
- BCV Building Construction: Vocational
- BME Biomedical Engineering
- BMS Basic Medical Sciences
- BOT Botany
- BRC Banking Related courses (not AIB or IFE)
- BSC Biological Sciences
- BTE Business Teacher Education
- BUL Business Law
- CAP Computer Applications (for Computer Scientists)
- CAS Clinical Audiology and Speech Language Pathology
- CAT CAT
- CBI Comparative Psychology and Animal Behavior
- CCE Civil Construction Engineering
- CCJ Criminology and Criminal Justice
- CDA Computer Design/Architecture
- CEG Civil Geotechnical Engineering
- CEN Computer Engineering
- CES Civil Engineering Structures
- CET Computer Engineering Technology
- CGN Civil Engineering
- CGS Computer General Studies
- CHD Home Economics: Child Development
- CHI Chinese
- CHM Chemistry
- CHR Chiropractic
- CHS Chemistry - Specialized
- CHT Chinese Literature in Translation
- CHW Chinese Literature (Writings)
- CIS Computer Science and Information Systems
- CJB College Level Application in Criminal Justice
- CJC Corrections
- CJD Criminal Justice Development
- CJE Law Enforcement
- CJK Juvenile Justice
- CJX Criminal Justice Basic Training (A.S or Vocational)
- CJC Law and Process
- CJT Criminal Justice Technologies
- CLA Classical and Ancient Studies
- CLP Clinical Psychology
- CLT Classical Literature in Translation
- CMC Corporate Media
- CNC Computer Networks
- COA Home Economics: Consumer Affairs
- COE Cooperative Education
- COIM Communications
- COP Computer Programming
- COS Cosmology
- CTOT Computing Theory
- CPO Comparative Politics
- CPS Comparative Policy Studies (Multinational)
- CPT Cardiopulmonary Technology
- CRW Creative Writing
- CSP Cosmology - Specialized
- CST Comparative Studies
- CTE Home Economics: Clothing and Textiles
- CTS Computer Technology and Skills
- CVT Cardiovascular Technology
- CWR Civil Water Resources
- CYP Community Psychology
- CZE Czech Language
- CZW Czech Literature (Writings)
- DAA Dance, Emphasis on Activity
- DAE Dance Education
- DAN Dance
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DAS</td>
<td>Dairy Science</td>
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<tr>
<td>DEA</td>
<td>Dental Assisting</td>
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<tr>
<td>DEC</td>
<td>Marketing and Distributive Education</td>
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<tr>
<td>DEH</td>
<td>Dental Hygiene</td>
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<td>DEM</td>
<td>Demography</td>
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<tr>
<td>DEN</td>
<td>International Education</td>
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<td>DES</td>
<td>Developmental Psychology</td>
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<tr>
<td>DIE</td>
<td>Dietetics</td>
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<tr>
<td>DIM</td>
<td>Diesel Mechanics</td>
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<td>DTE</td>
<td>Dental Laboratory Technology</td>
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<td>DUT</td>
<td>Dutch Language</td>
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<tr>
<td>EAB</td>
<td>Experimental Analysis of Behavior</td>
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<td>EAP</td>
<td>English for Academic Purposes/Finance</td>
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<td>EAS</td>
<td>Aerospace Engineering</td>
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<tr>
<td>ECH</td>
<td>Engineering: Chemical</td>
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<tr>
<td>ECM</td>
<td>Engineering: Computer Math</td>
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<tr>
<td>ECO</td>
<td>Economics</td>
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<tr>
<td>ECP</td>
<td>Economic Problems &amp; Policy</td>
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<td>EDA</td>
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<tr>
<td>EDE</td>
<td>Education: Elementary</td>
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<td>EDF</td>
<td>Education: Foundations and Policy Studies</td>
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<td>EDF</td>
<td>Education: General</td>
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<td>EDM</td>
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<td>EDP</td>
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<td>EDS</td>
<td>Education Supervision</td>
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<td>EED</td>
<td>Education: Emotional Disorders</td>
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<tr>
<td>EEL</td>
<td>Engineering: Electrical</td>
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<td>EER</td>
<td>Electrical/Electronics Repair</td>
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<td>EES</td>
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<td>EET</td>
<td>Electronic Engineering Technology</td>
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<td>EHV</td>
<td>Electrical/Vocational</td>
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<td>EEX</td>
<td>Education: Exceptional Child- Core Competencies</td>
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<td>EGC</td>
<td>Counselor Education</td>
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<td>EGI</td>
<td>Education: Gifted</td>
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<td>EGM</td>
<td>Engineering Science</td>
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<tr>
<td>EGS</td>
<td>Engineering: Support</td>
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<tr>
<td>EHD</td>
<td>Education: Hard of Hearing &amp; Deaf</td>
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<tr>
<td>EIA</td>
<td>Education: Industrial Arts</td>
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<td>EIN</td>
<td>Industrial Engineering</td>
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<td>EIV</td>
<td>Education: Industrial/Vocational</td>
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<td>ELD</td>
<td>Education: Specific Learning Disabilities</td>
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<td>ELR</td>
<td>Electrical Laboratories and Related Areas</td>
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<td>EMA</td>
<td>Materials Engineering</td>
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<td>EMC</td>
<td>Engineering: Mechanical &amp; Chemical</td>
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<td>EME</td>
<td>Education: Technology and Media</td>
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<td>EML</td>
<td>Engineering: Mechanical</td>
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<tr>
<td>EMR</td>
<td>Education: Mental Retardation</td>
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<td>EMS</td>
<td>Emergency Medical Services</td>
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<tr>
<td>ENC</td>
<td>English Composition</td>
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<td>ENG</td>
<td>English- General</td>
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<td>ENL</td>
<td>Hospitality Management</td>
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<tr>
<td>ENS</td>
<td>English for Non-Native Speakers</td>
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<td>ENU</td>
<td>Engineering: Nuclear</td>
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<td>ENV</td>
<td>Engineering: Environmental</td>
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<td>ENY</td>
<td>Entomology</td>
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<td>EOC</td>
<td>Ocean Engineering</td>
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<tr>
<td>EPH</td>
<td>Education: Physical &amp; Multiple Handicapped</td>
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<tr>
<td>ESC</td>
<td>Earth Science</td>
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<tr>
<td>ESE</td>
<td>Education: Secondary</td>
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<tr>
<td>ESI</td>
<td>Industrial/Systems Engineering</td>
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<tr>
<td>ESL</td>
<td>College- Preparatory English for Non-Native</td>
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<td>EST</td>
<td>Electronic Specialty Technology</td>
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<td>ETC</td>
<td>Engineering Technology: Civil</td>
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<td>ETO</td>
<td>Engineering Technology: Drafting</td>
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<tr>
<td>ETG</td>
<td>Engineering Technology: General</td>
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<tr>
<td>ETI</td>
<td>Engineering Technology: Industrial</td>
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<tr>
<td>ETM</td>
<td>Engineering Technology: Mechanical</td>
</tr>
<tr>
<td>ETN</td>
<td>Electroencephalographic Technology</td>
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</tbody>
</table>

**Common Course Numbering System**

- **ETG Engineering Technology: General**
- **ETD Engineering Technology: Drafting**
- **ETC Engineering Technology: Civil**
- **ETM Engineering Technology: Mechanical**
- **ETN Electroencephalographic Technology**
- **ETH Engineering Technology: Honors**
- **ETI Engineering Technology: Industrial**
- **ETM Engineering Technology: Mechanical**
- **ETN Electroencephalographic Technology**
- **ETG Engineering Technology: General**
- **ETD Engineering Technology: Drafting**
- **ETC Engineering Technology: Civil**
- **ETM Engineering Technology: Mechanical**
- **ETN Electroencephalographic Technology**
<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Course Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PET Physical Education Therapy</td>
<td>PHT</td>
<td>Physical Therapy</td>
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<tr>
<td>MUG Music: Conducting</td>
<td>PHY</td>
<td>Physics</td>
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<tr>
<td>MUH Music: History/Musicology</td>
<td>PHZ</td>
<td>Music: History/Musicology</td>
</tr>
<tr>
<td>MUL Music Literature</td>
<td>PKG</td>
<td>Music Literature</td>
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<tr>
<td>MUM Music: Commercial/Management/</td>
<td>PLA</td>
<td>Music: Commercial/Management/Administration</td>
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<tr>
<td>MUN Music Ensembles</td>
<td>PLE</td>
<td>Music Ensembles</td>
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<tr>
<td>MUO Music: Opera/Musical Theatre</td>
<td>PLT</td>
<td>Music: Opera/Musical Theatre</td>
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<tr>
<td>MUR Music: Church</td>
<td>PLW</td>
<td>Music: Church</td>
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<tr>
<td>MUS Music</td>
<td>POL</td>
<td>Music: Related Areas</td>
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<tr>
<td>MUT Music: Theory</td>
<td>PMA</td>
<td>Music: Theory</td>
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<td>MUY Music: Therapy</td>
<td>PPT</td>
<td>Music: Therapy</td>
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<tr>
<td>MVV Applied Music: Brasses</td>
<td>PPR</td>
<td>Applied Music: Brasses</td>
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<tr>
<td>MVH Historical Instruments</td>
<td>POR</td>
<td>Historical Instruments</td>
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<tr>
<td>MVJ Applied Music: Jazz</td>
<td>POST</td>
<td>Applied Music: Jazz</td>
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<tr>
<td>MVK Applied Music: Keyboard</td>
<td>POT</td>
<td>Applied Music: Keyboard</td>
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<tr>
<td>MVQ Applied Music: Other</td>
<td>POW</td>
<td>Applied Music: Other</td>
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<tr>
<td>MVP Applied Music: Percussion</td>
<td>PPE</td>
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<td>MVW Applied Music: Strings</td>
<td>PRN</td>
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<td>MWH Applied Music: Voice</td>
<td>PRO</td>
<td>Applied Music: Voice</td>
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<tr>
<td>MWV Applied Music: Woodwinds</td>
<td>PRT</td>
<td>Applied Music: Woodwinds</td>
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<tr>
<td>NEM Nematology</td>
<td>PSB</td>
<td>Nematology</td>
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<tr>
<td>NGT Nursing, Graduate</td>
<td>PSC</td>
<td>Nursing, Graduate</td>
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<tr>
<td>NMT Nuclear Medicine Technology</td>
<td>PSE</td>
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<tr>
<td>NSC Naval Science</td>
<td>PSY</td>
<td>Naval Science</td>
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<tr>
<td>NUR Nursing, Generic Undergraduate</td>
<td>PTN</td>
<td>Nursing, Generic Undergraduate</td>
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<tr>
<td>OCA Office Computer Applications</td>
<td>PUP</td>
<td>Office Computer Applications</td>
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<tr>
<td>OBP Biological Oceanography</td>
<td>PUR</td>
<td>Biological Oceanography</td>
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<td>OCC Chemical Oceanography</td>
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<tr>
<td>OCE General Oceanography</td>
<td>RAP</td>
<td>General Oceanography</td>
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<tr>
<td>OGG Geological Oceanography</td>
<td>RCS</td>
<td>Geological Oceanography</td>
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<tr>
<td>OGP Physical Oceanography</td>
<td>REA</td>
<td>Physical Oceanography</td>
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<tr>
<td>PFT Office Technology (Occupational)</td>
<td>RED</td>
<td>Office Technology (Occupational)</td>
</tr>
<tr>
<td>OPT Optimal Technology/Vision Care</td>
<td>REE</td>
<td>Optimal Technology/Vision Care</td>
</tr>
<tr>
<td>ORH Ornamental Horticulture</td>
<td>REL</td>
<td>Ornamental Horticulture</td>
</tr>
<tr>
<td>ORI Oral Interpretation</td>
<td>RET</td>
<td>Oral Interpretation</td>
</tr>
<tr>
<td>ORV Ornamental Horticulture (Variable Paced)</td>
<td>RHT</td>
<td>Ornamental Horticulture (Variable Paced)</td>
</tr>
<tr>
<td>OSE Optical Science and Engineering</td>
<td>RMI</td>
<td>Optical Science and Engineering</td>
</tr>
<tr>
<td>OTC Office Systems Technology</td>
<td>ROT</td>
<td>Office Systems Technology</td>
</tr>
<tr>
<td>OTA Office Technology Applications</td>
<td>RSD</td>
<td>Office Technology Applications</td>
</tr>
<tr>
<td>OTH Occupational Therapy</td>
<td>RTE</td>
<td>Occupational Therapy</td>
</tr>
<tr>
<td>PAD Public Administration</td>
<td>RRT</td>
<td>Public Administration</td>
</tr>
<tr>
<td>PAF Public Affairs</td>
<td>RTV</td>
<td>Public Affairs</td>
</tr>
<tr>
<td>PAS Physician Assistant</td>
<td>RUS</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>PAX Peace Studies</td>
<td>RUT</td>
<td>Peace Studies</td>
</tr>
<tr>
<td>PDB Parks and Zoos</td>
<td>RWSL</td>
<td>Parks and Zoos</td>
</tr>
<tr>
<td>PCB Process Biology, Genomics/</td>
<td>SAL</td>
<td>Process Biology, Genomics/</td>
</tr>
<tr>
<td>PCO Physical Education Therapy</td>
<td>SCE</td>
<td>Physical Education Therapy</td>
</tr>
<tr>
<td>PEN Physical Education Activities</td>
<td>SCT</td>
<td>Physical Education Activities</td>
</tr>
<tr>
<td>PET Physical Education Therapy</td>
<td>SED</td>
<td>Physical Education Therapy</td>
</tr>
</tbody>
</table>
Courses Numbered 0-999

Depending upon previous background and test scores earned, individual students may be required to complete more than the minimum number of credits required for graduation in their respective programs. Courses numbered less than 1000 (Statewide Common Course Numbers) are sub-collegiate level and may not be counted in meeting degree credit hour requirements for graduation.

Special Courses

In addition to the regular courses listed in this catalog, special courses may be available. Students should consult their academic advisor for details.

<table>
<thead>
<tr>
<th>Undergraduates</th>
<th>Special Grad</th>
<th>Undergraduates</th>
<th>Special Grad</th>
<th>Undergraduates</th>
<th>Special Grad</th>
<th>Undergraduates</th>
<th>Special Grad</th>
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</thead>
<tbody>
<tr>
<td>Directed Independent Studies</td>
<td>1906, 2905, 3905, 4906, 5907</td>
<td>5907</td>
<td>Directed Independent Research</td>
<td>4912, 5917</td>
<td>5917</td>
<td>Special Undergraduate Research</td>
<td>IDS 3913, 4914</td>
</tr>
<tr>
<td>*Internships, Practicums, Clinical Practice</td>
<td>3940, 4941</td>
<td>5944</td>
<td>Cooperative Education</td>
<td>1940, 2949, 3949, 4949</td>
<td>5949</td>
<td>Honors Undergraduate Thesis</td>
<td>3970, 4970</td>
</tr>
<tr>
<td>Study Abroad</td>
<td>4905</td>
<td>5957</td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

*These courses may be assigned variable credit. Some may be repeated upon approval.
1The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.
2Enrollment is limited to those students who are fully admitted to the Graduate Program.
3Enrollment is limited to those students who are admitted into the Co-op program.

Dual Usage of Credit Hours

With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should 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.
Cl: (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.
UCF Courses and Descriptions

Finding a Course in this List
The UCF courses in this section are listed alphabetically by prefix. Consult the "Common Course Numbering System" section of the Undergraduate Catalog for additional information.

Availability of Courses
The University does not offer all of the courses listed in this Undergraduate Catalog each academic year, academic semester, or term. Consult the online Class Schedule at https://connect.ucf.edu for those courses offered each semester/term.

AGC 2021 BA-ACCT 3(3,0)

AGC 2021H BA-ACCT 3(3,0)

AGC 2071 BA-ACCT 3(3,0)
Principles of Managerial Accounting: PR: AGC 2021 and MAC 1105 or equivalent. The purpose of this course is to thoroughly familiarize the student with the various uses of accounting information for planning and control.

AGC 3101 BA-ACCT 3(3,1)
Intermediate Financial Accounting I: PR: Junior standing, Accounting major or minor, and MAC 1105, ECO 2013 and ECO 2023; and AGC 2071 or its equivalent with a grade of "C" or better. An introduction to manual and computer-based accounting information systems.

AGC 3111 BA-ACCT 3(3,0)
Intermediate Financial Accounting II: PR: Accounting major or minor, AGC 3101 with a grade of "C" or better. Accounting theory and practice for current and long-term liabilities, stockholders' equity, income and comprehensive income, and selected current topics.

AGC 3131 BA-ACCT 3(3,0)
Financial Accounting Concepts and Analysis: PR: Junior Standing, Accounting major or minor, and AGC 2021, AGC 2071 with a grade of "C" or better. Technical knowledge about accounting measurement, and disclosure plus the study of how accounting reports are analyzed, and interpreted by external users.

AGC 3141 BA-ACCT 3(3,0)
Intermediate Financial Accounting: PR: Accounting major or minor, AGC 3131 with a grade of "C" or better. Accounting theory and practice related to preparation, and interpretation of external financial statements.

AGC 3301 BA-ACCT 3(3,0)
Management Accounting: PR: Accounting major or minor, Junior standing and C.I. To thoroughly familiarize the student with the various uses of accounting information for planning and control.

AGC 3361 BA-ACCT 3(3,0)
Cost Accounting I: PR: Junior standing, Accounting major or minor, and MAC 1105, ECO 2013, ECO 2023, and AGC 2071 with a grade of "C". Theory and practice of using accounting information for managerial planning, and control as well as in costing, and pricing decisions.

AGC 3501 BA-ACCT 3(3,0)
Financial Accounting for Governmental and Nonprofit Organizations: PR: Accounting major or minor, and a grade of "C" or better in AGC 2071. Application of the application of financial and managerial accounting, and auditing for governmental, and nonprofit organizations.

AGC 4252 BA-FIN 3(3,0)

AGC 4401 BA-ACCT 3(3,1)
Accounting Information Systems: PR: Accounting major or minor, AGC 3101 and CGS 2100C, with a grade of "C" or better. An introduction to manual and computer-based accounting information systems.

AGC 4651 BA-ACCT 3(3,0)
Auditing: PR: Accounting major or minor, AGC 3111 and AGC 4401 with a grade of "C" or better. The standards, practices, and procedures followed in the audit function.

AGC 4671 BA-ACCT 3(3,0)
Internal Auditing: PR: Accounting major or minor, AGC 3101 or AGC 3381. Theory and practice of internal auditing and the use of internal auditing in organizational control.

AGC 5005 BA-ACCT 1.5(1,5,0)
Accounting Foundations: PR: Acceptance to Graduate Study. Accounting and reporting from an investment and managerial decision making perspective.

AGC 5205 BA-ACCT 3(3,0)
Advanced Financial Accounting Topics: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and AGC 3111 with a grade of "C" or better. Accounting for business combinations and the preparation of consolidated financial statements. Accounting issues related to foreign operations. Also includes a study of current reporting topics.

AGC 5206 BA-ACCT 3(3,0)

AGC 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 AGC 3381 with a grade of "C" or better and ECO 3411. Advanced and current techniques for generation and use of accounting information in managerial decision-making.

AGC 5405 BA-ACCT 3(3,0)
Advanced Accounting Information Systems: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and AGC 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations.

AGC 5625 BA-ACCT 3(3,0)
Auditing and EDP: PR: Acceptance for graduate study. AGC 3111, AGC 4401, and AGC 4651. An examination of auditing procedures followed when a company uses a computer to process financial records.

ADV 3000 AS-COMM 3(3,0)
Principles of Advertising: PR: SPC 1600C. Overview of the field of advertising: purposes, techniques, the role of agencies, advertisers and the media.

ADV 4101 AS-COMM 3(3,0)
Advertising Copywriting: PR: AD/PR majors only and ADV 3000. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media.

ADV 4103 AS-COMM 3(3,0)
Radio-Television Advertising: PR: RTVF or AD/PR Majors only and ADV 3000. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media.

AFA 2102 AS-AAS 3(3,0)
Introductory Perspectives on African American Studies: Multidisciplinary perspectives are used to explore key issues and basic methodologies in African American Studies, featuring presentations by representative faculty from various disciplines.

AFA 2300 AS-AAS 3(3,0)
African American Music: Comprehensive look at music written and made popular by African Americans.

AFA 3104 AS-AAS 3(3,0)

AFA 3955 AS-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.

AFA 4105 AS-AAS 3(3,0)

AFA 5930 AS-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.

AFH 3100 AS-AAS 3(3,0)
African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870.

AFH 3200 AS-AAS 3(3,0)
African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present.

AFH 5806 AS-HIST 3(3,0)
The Historiography of Slavery in Africa: PR: graduate status or senior standing or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa.

AFR 1101C ECS-AFROTC 1(1,2)

AFR 1111 ECS-AFROTC 1(1,2)

AFR 2130C ECS-AFROTC 1(1,2)
The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II. Hands on training.

AFR 2131 ECS-AFROTC 1(1,2)
The Development of Air Power II: A study of the development of aerospace capabilities since World War II, highlighting technological advancements and the role of aerospace power in the contemporary world.

AFR 3220C ECS-AFROTC 3(3,2)
Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles. Hands on training.

AFR 3230 ECS-AFROTC 3(3,2)
Air Force Evaluation and Management II: A concluding study of Air Force management fundamentals, including performance evaluation skills.

AFR 4201C ECS-AFROTC 3(3,2)

AFR 4210 ECS-AFROTC 3(3,2)

AMH 2010 AS-HIST 3(3,0)

AMH 2010H AS-HIST 3(3,0)

AMH 2020 AS-HIST 3(3,0)
U.S. History: 1877-Present: Survey of U.S. History from 1877 to the present. May be taken before AMH 2010.

AMH 2020H AS-HIST 3(3,0)

AMH 3370 AS-HIST 3(3,0)
American Economic History: PR: AMH 2010 and AMH 2020, or C.I. An introduction to the economic development of the U.S., with emphasis on agriculture, labor, industrialization, transportation, and banking.

AMH 3402 AS-HIST 3(3,0)
History of the South to 1865: PR: AMH 2010 or AMH 2020 or C.I. Development of the southern colonies, beginning sectionalism, the cotton economy, and slavery, Calhoun's constitutional theories, secession, Civil War and its aftermath.

AMH 3403 AS-HIST 3(3,0)
History of the South Since 1865: PR: AMH 2010 and 2020, or C.I. Reconstruction, the "solid South" and the racial dilemma, progressivism for whites only, southern literature, 20th-century economic, political and social changes, and the new Reconstruction.

AMH 3421 AS-HIST 3(3,0)
History of Florida to 1845: PR: AMH 2010 and 2020 or C.I.

AMH 3423 AS-HIST 3(3,0)
Florida History 1845-Present: PR: AMH 2010 and 2020 or C.I.

AMH 3441 AS-HIST 3(3,0)
History of the Frontier: Eastern America: PR: AMH 2010 and AMH 2020 or C.I. The progression of the westward movement from the colonial settlements to the Mississippi, considered as an interpretive approach to American history.

AMH 3442 AS-HIST 3(3,0)
History of the Frontier: Western America: PR: AMH 2010 and 2020 or C.I. The development of the trans-Mississippi West and its impact upon American history.

AMH 3514 AS-HIST 3(3,0)

AMH 3547 AS-HIST 3(3,0)
U.S. Military History Since 1900: PR: AMH 2010 and AMH 2020, or C.I. U.S. military history since 1900 emphasizing civil-military relations, warfare, and military developments.

AMH 3558 AS-HIST 3(3,0)

AMH 3561 AS-HIST 3(3,0)

AMH 3562 AS-HIST 3(3,0)
Women in American History II: PR: AMH 2010, AMH 2020 or C.I. Examines industrialization, entry of women into higher education and professions, winning of suffrage, changing profile of female wage earner, and rise of modern feminist movement.

AMH 3571 AS-HIST 3(3,0)

AMH 3572 AS-HIST 3(3,0)

AMH 3586 AS-HIST 3(3,0)
History of the Hispanic Minorities in the U.S.: Course begins with 16th century through the modern period. Special emphasis on Chicanos, Puerto Ricans, and Cubans.

AMH 3610 AS-HIST 3(3,0)
Sport in America to 1945: PR: AMH 2010, AMH 2020 or C.I. History of sport emphasizing development of professional and collegiate sport to 1945.

AMH 3613 AS-HIST 3(3,0)
Sport in America Since 1945: PR: AMH 2010, AMH 2020 or C.I. American sport emphasizing the development of professional and collegiate sport since 1945.

AMH 3800 AS-HIST 3(3,0)
Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867.

AMH 4110 AS-HIST 3(3,0)
Colonial America, 1607-1763: PR: AMH 2010 and 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries.

AMH 4112 AS-HIST 3(3,0)
The Atlantic World: PR: C.I. The impact and transforming effect of the Atlantic System on the peoples of Western Europe, Western Africa, the Caribbean and the Americas.

AMH 4130 AS-HIST 3(3,0)
The Age of the American Revolution, 1763-1789: PR: AMH 2010 and 2020 or C.I. The American Revolution - its origins, course, and impact upon American society - the Articles of Confederation, the Philadelphia Convention and its work.

AMH 4140 AS-HIST 3(3,0)
Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812.

AMH 4160 AS-HIST 3(3,0)
Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict.

AMH 4170 AS-HIST 3(3,0)
Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism.

AMH 4201 AS-HIST 3(3,0)
The Gilded Age and Progressivism: PR: AMH 2010 and 2020 or C.I. The Rise of Industrialized and Urbanized America, The emergence of the New South and the New West, the Populist Movement, overseas expansion, Progressivism.

AMH 4231 AS-HIST 3(3,0)
United States History: 1914-1939: PR: AMH 2010 and 2020 or C.I. The progressive reforms of Woodrow Wilson, World War I, post-war prosperity, the Depression, the New Deal, and the coming of World War II.

AMH 4270 AS-HIST 3(3,0)
United States History: 1939-1968: PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties.
AMH 4273 AS-HIST 3(3,0) 

AMH 4311 AS-HIST 3(3,0) 
American Culture I: PR: AMH 2010 and 2020 or C. I. The European Backgrounds: Пuritanism; Enlightenment; the Great Awakening; Revolutionary Thought; Romanticism; the Southern Mind and the Yankee Response; Popular Culture and the rise of recreation.

AMH 4313 AS-HIST 3(3,0) 
American Culture II: PR: AMH 2010 and 2020 or C. I. The Darwinian Revolution; revolt of the intellectuals; the media explosion; mass entertainment in mass culture; the loss of community, the nuclear age, and presentism.

AMH 4376 AS-HIST 3(3,0) 
U.S. Space History: PR: AMH 2010 and AMH 2020, or C. I. Past World War II US rocketry and space travel with focus on the role of Cape Canaveral/Kennedy Space Center.

AMH 4510 AS-HIST 3(3,0) 

AMH 4512 AS-HIST 3(3,0) 
US Diplomatic History: 1914-1945: PR: AMH 2010 and AMH 2020, or C. I. U.S. diplomacy from World War I through World War II.

AMH 4513 AS-HIST 3(3,0) 
United States as a Great Power: 1945-Present: PR: AMH 2020 or C. I. U.S. diplomacy from World War II to the present.

AMH 5116 AS-HIST 3(3,0) 
Colloquium in U.S. Colonial History: PR: graduate status or senior standing or C. I. Reading and discussion of the literature on selected topics in colonial American history.

AMH 5137 AS-HIST 3(3,0) 
Colloquium in U.S. Revolutionary Period: PR: graduate status or senior standing or C. I. Reading and class discussion of the literature on selected topics in the Revolutionary Era, 1763-1789.

AMH 5149 AS-HIST 3(3,0) 
Colloquium in Early U.S. History, 1789-1815: PR: graduate status or senior standing or C. I. Reading and class discussion of the literature on selected topics of the early national period.

AMH 5169 AS-HIST 3(3,0) 
Colloquium in Age of Jackson: PR: graduate status or senior standing or C. I. Intensive reading and class discussion on selected topics of the Jacksonian age.

AMH 5176 AS-HIST 3(3,0) 
Colloquium in Civil War and Reconstruction: PR: graduate status or senior standing or C. I. Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era.

AMH 5219 AS-HIST 3(3,0) 
Colloquium in Late 19th Century U.S.: PR: graduate status or senior standing or C. I. Reading and class discussion of the literature on selected topics of late 19th-century U.S.

AMH 5296 AS-HIST 3(3,0) 
Colloquium in 20th Century U.S.: PR: graduate status or senior standing or C. I. Reading and class discussion on selected topics of 20th-century U.S.

AMH 5391 AS-HIST 3(3,0) 
Colloquium in U.S. Culture and Identity: PR: graduate status or senior standing or C. I. Students will read and discuss a common or diverse body of the significant literature in the field.

AMH 5407 AS-HIST 3(3,0) 
Colloquium in American South: PR: graduate status or senior standing or C. I. Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present.

AMH 5446 AS-HIST 3(3,0) 
Colloquium in U.S. Frontier: PR: graduate status or senior standing or C. I. Reading and class discussion of the literature on selected topics of frontier history.

AMH 5515 AS-HIST 3(3,0) 
Colloquium in U.S. Diplomatic History: PR: graduate status or senior standing or C. I. A survey of the historical literature of American foreign policy. May be repeated for credit when content is different.

AMH 5566 AS-HIST 3(3,0) 
Colloquium in Women in American History: PR: graduate status or senior standing or C. I. Participants will enhance their knowledge of weighing evidence and interpretations presented in historical scholarship with respect to the social, cultural, intellectual, economic, and political-diplomatic history of the U.S.

AMH 5937 AS-HIST 3(3,0) 
AP American History: PR: graduate status or senior standing or C. I. Participants will enhance their knowledge of weighing evidence and interpretations presented in historical scholarship with respect to the social, cultural, intellectual, economic, and political-diplomatic history of the U.S.

AML 3614 AS-ENG 3(3,0) 
Ethnic Literature in America: PR: ENC 1102. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States.

AML 3682H AS-ENG 3(3,0) 
Honors Ethnic Literature in America: PR: Permission of Honors and ENC 1102H or equivalent credit. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States. Honors content.

AML 4101 AS-ENG 3(3,0) 

AML 4153 AS-ENG 3(3,0) 
American Poetry at Mid-Century: PR: ENC 1102 and ENG 3014. Study of major figures from the "Middle Generation": Berryman, Bishop, Jarrell, Lowell, Plath, Rich, Roethke, and others.

AML 4155 AS-ENG 3(3,0) 

AML 4261 AS-ENG 3(3,0) 
Literature of the South: PR: ENC 1102 and ENG 3014 or C. I. Development of Southern literature from its beginnings in the "Old South" through the post-Civil War and the Southern-Renaissance to the present. Emphasizes reading from Poe, Ransom, Tate, Faulkner, Porter, Warren, O'Conner, Percy, and Styron.

AML 4265 AS-ENG 3(3,0) 
Florida Writers: PR: ENC 1102 and ENG 3014. This course will examine writers who have lived in and written about Florida, such as Hemingway, Rawlings, Hurston, and Stevens.

AML 4300 AS-ENG 3(3,0) 
Major American Authors: PR: ENG 3014. A comprehensive study of selected major American literary figures. May be repeated for credit when content changes.

AML 4321 AS-ENG 3(3,0) 

AML 4630 AS-ENG 3(3,0) 

AML 5076 AS-ENG 3(3,0) 
American Literature: Colonial to Contemporary: PR: Graduate status or senior standing or C. I. Intended for graduate students and future teachers of American Literature, this course surveys texts produced in America from the colonial period to the present.

AML 5156 AS-ENG 3(3,0) 
Modern American Poetry: PR: Graduate status or senior standing or C. I. Study of trends, modes, major figures (Eliot, Pound, H.D.,Lawrence, Stevens, Hart, Crane, Moore, W.C. Williams, etc.) within the Modemist movement in American poetry.

ANG 5110 AS-SOC/AN 3(3,0) 
Archaeological Theory and Method: PR: Graduate status or senior standing or C. I. A consideration of the history and current state of the art of the theory and methods used by archaeologists to interpret past behavior.

ANG 5165 AS-SOC/AN 3(3,0) 
Field Anthropology in Maya Studies: PR: ANG 6169 or C. I. Practical application of method and theory during primary in-field research in the Maya area.

ANG 5166 AS-SOC/AN 3(3,0) 
Problems in Maya Studies: PR: ANG 6169 or C. I. Deep study of current methodological, theoretical, and/or topical problems in Maya Studies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 5167</td>
<td>AS-SOC/AN Maya Hieroglyphs</td>
<td>3(3,0)</td>
<td>The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture.</td>
</tr>
<tr>
<td>ANG 5228</td>
<td>AS-SOC/AN Maya Iconography</td>
<td>3(3,0)</td>
<td>Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features.</td>
</tr>
<tr>
<td>ANG 5467</td>
<td>AS-SOC/AN Nutritional Anthropology</td>
<td>3(3,0)</td>
<td>One course in Social Sciences (min 2000-level) and one course in Biological Sciences (min 2000-level)</td>
</tr>
<tr>
<td>ANT 2000</td>
<td>AS-SOC/AN General Anthropology</td>
<td>3(3,0)</td>
<td>An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology.</td>
</tr>
<tr>
<td>ANT 2000H</td>
<td>AS-SOC/AN General Anthropology Honors</td>
<td>3(3,0)</td>
<td>Permission of Honors. Extensive honors work in the field of anthropology. Expectations, requirements, and standards are greater than for standard General Anthropology.</td>
</tr>
<tr>
<td>ANT 2100</td>
<td>AS-SOC/AN Archaeology and the Rise of Human Culture</td>
<td>3(3,0)</td>
<td>The evolution of human society from foraging and hunting groups to the earliest cities and states.</td>
</tr>
<tr>
<td>ANT 2410</td>
<td>AS-SOC/AN Cultural Anthropology (Anthropology II)</td>
<td>3(3,0)</td>
<td>An introduction to human diversity as exemplified among various cultures and ethnic groups.</td>
</tr>
<tr>
<td>ANT 2511</td>
<td>AS-SOC/AN The Human Species</td>
<td>3(3,0)</td>
<td>Human biological variation in an evolutionary perspective.</td>
</tr>
<tr>
<td>ANT 2511H</td>
<td>AS-SOC/AN Honors The Human Species</td>
<td>3(3,0)</td>
<td>Permission of Honors. Human biological variation in an evolutionary perspective.</td>
</tr>
<tr>
<td>ANT 3011</td>
<td>AS-SOC/AN Archaeological Sciences</td>
<td>3(3,0)</td>
<td>PR: ANT 2511 or ANT 2100 or C.I. Methods and instrumentation routinely used in archaeology and forensic anthropology.</td>
</tr>
<tr>
<td>ANT 3115</td>
<td>AS-SOC/AN Archaeological Method and Theory</td>
<td>3(3,0)</td>
<td>A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports.</td>
</tr>
<tr>
<td>ANT 3142</td>
<td>AS-SOC/AN Old World Prehistory</td>
<td>3(3,0)</td>
<td>A comparative study of social evolution in Africa, Europe, and Asia from the earliest humans to the beginnings of recorded history.</td>
</tr>
<tr>
<td>ANT 3145</td>
<td>AS-SOC/AN Archaeology of Complex Societies</td>
<td>3(3,0)</td>
<td>Theoretical perspectives on ancient hierarchies of power.</td>
</tr>
<tr>
<td>ANT 3158</td>
<td>AS-SOC/AN Florida Archaeology</td>
<td>3(3,0)</td>
<td>PR: ANT 2000 or ANT 2100 or C.I. Florida prehistory from Paleo-Indian to European contact including archaeological periods, cultural areas, sites, and artifacts.</td>
</tr>
<tr>
<td>ANT 3163</td>
<td>AS-SOC/AN Mesoamerican Archaeology</td>
<td>3(3,0)</td>
<td>An introduction to the prehistory of Mexico, Guatemala and upper Central America from earliest times through the Spanish conquest.</td>
</tr>
<tr>
<td>ANT 3164</td>
<td>AS-SOC/AN Ancient Incas</td>
<td>3(3,0)</td>
<td>PR: ANT 2000 or SYG 2000 or ANT 2100 or C.I. The ancient Inca civilization, including examination of pre-Inca cultures and modern Andeans. Uses archaeological, ethnohistorical, historical, and contemporary anthropological sources.</td>
</tr>
<tr>
<td>ANT 3168</td>
<td>AS-SOC/AN Maya Archaeology</td>
<td>3(3,0)</td>
<td>An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field.</td>
</tr>
<tr>
<td>ANT 3184</td>
<td>AS-SOC/AN Mortuary Archaeology</td>
<td>3(3,0)</td>
<td>PR: ANT 2000 or ANT 2100 or ANT 2511. Archaeological interpretations of death, basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern.</td>
</tr>
<tr>
<td>ANT 3212</td>
<td>AS-SOC/AN Peoples of the World</td>
<td>3(3,0)</td>
<td>A comparative study of religion, family, politics, philosophy, and other elements of socio-cultural organization of pre-literate societies.</td>
</tr>
<tr>
<td>ANT 3241</td>
<td>AS-SOC/AN Magic, Ritual, and Belief</td>
<td>3(3,0)</td>
<td>Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena.</td>
</tr>
<tr>
<td>ANT 3245</td>
<td>AS-SOC/AN Native American Religions</td>
<td>3(3,0)</td>
<td>PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples.</td>
</tr>
<tr>
<td>ANT 3262</td>
<td>AS-SOC/AN Rural Society</td>
<td>3(3,0)</td>
<td>An introduction to rural society in the U.S. and abroad. Problems of third world development in the rural sector.</td>
</tr>
<tr>
<td>ANT 3273</td>
<td>AS-SOC/AN Law and Culture</td>
<td>3(3,0)</td>
<td>An introduction to law as an organizing force in society, including a study of primitive forms of law and social control.</td>
</tr>
<tr>
<td>ANT 3302</td>
<td>AS-SOC/AN Sex, Gender and Culture</td>
<td>3(3,0)</td>
<td>The traditional and changing roles of women and men viewed in a cross-cultural perspective.</td>
</tr>
<tr>
<td>ANT 3311</td>
<td>AS-SOC/AN Indians of the Southeastern United States</td>
<td>3(3,0)</td>
<td>A study of the social and cultural history of the Indians of the Southeast.</td>
</tr>
<tr>
<td>ANT 3312</td>
<td>AS-SOC/AN Ethnology of North American Indians</td>
<td>3(3,0)</td>
<td>A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition.</td>
</tr>
<tr>
<td>ANT 3314</td>
<td>AS-SOC/AN Indians of the Northeast Woodlands</td>
<td>3(3,0)</td>
<td>PR: ANT 2003 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American Northeast.</td>
</tr>
<tr>
<td>ANT 3316</td>
<td>AS-SOC/AN Black/Seminole Relations</td>
<td>3(3,0)</td>
<td>PR: 2000 level GEP Social Science course or C.I. Relationships forged between peoples of African origin and descent and the Seminole Indians.</td>
</tr>
<tr>
<td>ANT 3318</td>
<td>AS-SOC/AN Indians of the Northwest Coast</td>
<td>3(3,0)</td>
<td>PR: ANT 2003 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the Northwest Coast of North America.</td>
</tr>
</tbody>
</table>
ANT 3319 AS-SOC/AN 3(3,0)
Anthropology of Diaspora: PR: ANT 2000 or ANT 2410 or C.I. Comparative study of sociocultural constructions of race and the processes of acculturation and resistance in African Diasporas of the New and Old Worlds.

ANT 3320 AS-SOC/AN 3(3,0)
Indians of the Southwest: PR: ANT 2000. Native American culture types of the southwest: Navajo, Pueblo (Zuni, Hopi, Tewa), Apache (Lipan, Mescalero), and Desert Tradition (Pima, Papago, Havasupai).

ANT 3332 AS-SOC/AN 3(3,0)
People and Cultures of Latin America: An overview of the history and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization.

ANT 3340 AS-SOC/AN 3(3,0)
Caribbean Cultures: PR: ANT 2000 or ANT 2410 or C.I. Comparative study of peoples and cultures of the Anglophone, Francophone and Hispanophone Caribbean.

ANT 3358 AS-SOC/AN 3(3,0)
Life and Death in Ancient Egypt: PR: ANT 2000. Anthropology course. Use of archaeology and physical anthropology to examine the lives and deaths of both common citizens and royalty in Ancient Egypt (3000 BCE-AD 600).

ANT 3363 AS-SOC/AN 3(3,0)
Anthropology of Japan: An examination of Japanese culture and its contemporary behavioral and organizational patterns by drawing upon anthropology, cultural history, linguistics, cultural anthropology, and social organization.

ANT 3438 AS-SOC/AN 3(3,0)
Anthropology of Tourism: PR: ANT 2000 or C.I. The field of medical anthropology. Topics will include skeletal analysis and the application of archaeo-

ANT 3451 AS-SOC/AN 3(3,0)
Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments.

ANT 3550 AS-SOC/AN 3(3,0)
Primatology: PR: ANT 2511 or C.I. Study of species from the Order Primates, including their morphology, ecology, behavior, and geographic distribution.

ANT 3640 AS-SOC/AN 3(3,0)
Language and Culture: PR: Sophomore standing. This course will focus on language in a non-western setting; language and behavior; language and perception.

ANT 3701 AS-SOC/AN 3(3,0)
Applied Anthropology: PR: ANT 2003 or C.I. Application of anthropological methods to current human problems such as the environment, migration, globalization and health.

ANT 3702 AS-SOC/AN 3(3,0)
Culture, Power and Development: PR: Any 2000-level social science course or C.I. Anthropological perspective on origins and contemporary ramifications of underdeveloped and disempowerment in the world system.

ANT 3802 AS-SOC/AN 3(3,0)
Ethnographic Field Methods: PR: ANT 2410 or ANT 3640 or C.I. Procedures and principles of ethnographic research methods.

ANT 3949 AS-SOC/AN 0(0,8)
Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. May be repeated. Graded S/U.

ANT 4034 AS-SOC/AN 3(3,0)
History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology.

ANT 4144 AS-SOC/AN 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.

ANT 4153 AS-SOC/AN 3(3,0)
North American Archaeology: PR: Any lower level social science course. The cultural development of North Americans from prehistoric times to the period of the first European contact.

ANT 4180C AS-SOC/AN 3(1,4)
Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit.

ANT 4266 AS-SOC/AN 3(3,0)

ANT 4308 AS-SOC/AN 3(3,0)
Gender Issues in Latin America: PR: Completion of a lower-level social science course or its equivalent. Issues of gender in Latin America through an anthropological approach, both theoretical and practical, with special attention to women's lives.

ANT 4352 AS-SOC/AN 3(3,0)
African Societies and Cultures: PR: ANT 2000 or SYG 2000 or C.I. Anthropological survey of Africa examining the social, cultural, and economic diversity of the continent over time.

ANT 4354 AS-SOC/AN 3(3,0)

ANT 4462 AS-SOC/AN 3(3,0)
Medical Anthropology: PR: ANT 2000 or ANT 2511 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications.

ANT 4516 AS-SOC/AN 3(3,0)
Human Biological Diversity: PR: ANT 2511 or BSC 2010C or C.I. Human biological variation and adaptation.

ANT 4521C AS-SOC/AN 3(3,0)
Forensic Anthropology: PR: ANT 2511 or C.I. The study of human skeletal remains in relation to a legal context.

ANT 4525C AS-SOC/AN 4(3,1)
Human Osteology: PR: ANT 2511. The scientific study of the human skeleton and the methodology and techniques involved in the anthropological assessment of skeletal remains.

ANT 4528C AS-SOC/AN 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.

ANT 4586 AS-SOC/AN 3(3,0)
Human Origins: PR: ANT 2511. The fossil evidence for human evolution from Miocene hominoids through the Australopithecines and the earliest members of the genus Homo.

ANT 4824 AS-SOC/AN 9(9,0)
Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork.

APA 3471 BA-ACCT 3(3,0)
Accounting for Engineers: PR: Not open to business majors. General Accounting principles and practice, cost accounting, budgeting, and control techniques. Not usable for BSBA degree credit.

ARA 1120 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization I: Introduces the student to Arabic language skills. Open only to students with no experience in the language.

ARA 1120H AS-LANG 4(4,1)
Honors Elementary Arabic Language and Civilization I: PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level content.

ARA 1121 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization II: PR: ARA 1120 or C.I. Continuation of ARA 1120.

ARA 1121H AS-LANG 4(4,1)
Honors Elementary Arabic Language and Civilization II: PR: Permission of Honors. Continuation of ARA 1120H. Honors level content.

ARA 2200 AS-LANG 3(3,1)
Intermediate Arabic Language and Civilization I: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level.

ARE 2011 ED-TLP 3(3,0)
Early Childhood Art and Creativity: An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented. Materials & Supply fee: $5.00.

ARE 3944 AS-ART 2(2,3)
Community Arts Practicum: PR: C.I. A supervised experience for students to facilitate art programming in a variety of community settings.

ARE 4250 ED-TLP 3(3,0)
Art for Exceptionalities: PR: EDG 4323 and at least junior standing or C.I. Concepts, principles, and methods of integrating art processes in the education of students with physical, emotional, and mental disabilities.

ARE 4262 AS-ART 3(3,0)
Methods in Art Administration: PR: ARH 3820. Theories and methodologies for designing, implementing and administering art programs for a variety of populations.

ARE 4313 ED-TLP 3(2,1)
Art in the Elementary School: Basic principles, purposes, scope and sequence; organization for instruction, evaluation of activities; selected art experiences.

ARE 4351 ED-TLP 3(2,1)
Teaching Art in the Elementary School: PR: EDF 4214 and EDC 4323. Transition from university art studio practices to public school teaching of art. Organizing, design-
ing and analyzing art experiences, activities and class-
room environments for the elementary school classroom. 
Materials & Supply fee: $3.00

ARE 4352 ED-TLP 3(2,1) Teaching Art in the Secondary School: PR: ARE 4143, 
EDEF 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 chil-
dren. Examination of teaching methodology relative to the 
high school and junior high school settings. Materials & 
Supply fee: $5.00

ARE 4356 ED-TLP 3(3,1) Teaching Art Appreciation & Criticism in the 
Classroom: PR: ARH 2550 and ARH 2551. An examina-
tion of art appreciation programs and concepts toward 
planning curriculum for the study of art history, popular art, 
art criticism, and aesthetics for specific educational set-
tings.

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 produc-
tive qualities. May be repeated for credit.

ARE 4945 AS-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.

ARE 5251 ED-TLP 3(2,1) Art for Exceptionalities: Concepts, principles, and meth-
ods of integrating art processes into the education of the 
physically, emotionally, and mentally handicapped.

ARE 5255 ED-TLP 3(2,1) Arts in Recreation: Art activities and experiences appro-
priate for use in playground, leisure services, occupational 
orientation and other recreational areas.

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 uni-
versity art practices to public school teaching of art. 
Organize, design, and analyze art learning for students K-
12.

ARE 5454 ED-TLP 3(3,0) Studio Experiences in Art Education: PR: Graduate 
admission or C.I. Materials available for instruction in pub-
lic schools will be explored in depth in relation to their 
appropriateness and productive qualities. May be repeated 
for credit. Materials & Supply fee: $3.00

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.

ARH 2050 AS-ART 3(3,0) History of Western Art I: Painting, sculpture and archi-
tecture from the Prehistoric Era through the Renaissance.

ARH 2050H AS-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 con-
tent.

ARH 2051 AS-ART 3(3,0) History of Western Art II: Painting, sculpture and archi-
tecture from the Baroque through the 20th century.

ARH 2051H AS-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 con-
tent.

ARH 2500 AS-ART 3(3,0) History of Non-Western Art: Major visual arts in various 
non-Western cultures.

ARH 3454 AS-ART 3(3,0) Happenings and Conceptual Art: PR: Junior Standing or C.I. 
Aesthetic and social significance of "Total Art" in its 
attempt to break down customary distinctions between life 
and art.

ARH 3471 AS-ART 3(3,0) Art in the Last 25 Years: PR: ARH 2050 and ARH 2051 
C.I. A seminar for upper-level art students to examine 
current trends in the visual arts.

ARH 3520 AS-ART 3(3,0) African Art: 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.

ARH 3570 AS-ART 3(3,0) Ceramics of the Muslim World: PR: ARH 2050 or C.I. 
Islamic Art and the stylistic and technical characteristics of 
the period, in contrast to pre-Islamic or other civilizations 
such as the ancient Greeks, Egyptians, Babylonians, and 
Chinese.

ARH 3610 AS-ART 3(3,0) American Art: PR: ARH 2050 and ARH 2051 or C.I. 
Surveys American Art to 1900. Leading artists are identi-
fied and representative examples of their work are dis-
cussed within the context of major themes, patterns, 
sources.

ARH 3632H AS-ART 3(3,0) Honors: African American Arts Seminar: PR: 
Permission of Honors. An exploration of traditional, aca-
demic, and contemporary urban African American visual 
arts.

ARH 3670 AS-ART 3(3,0) 20th Century Latin American Art: PR: ARH 2050 and 
ARH 2051 or C.I. Art of the modern era (1820 to 1980) in 
the Caribbean and South America; issues and charac-
teristics of art as they reflect the cultural evolution of Latin 
America.

ARH 3673 AS-ART 3(3,0) Modern Art of Mexico: PR: ARH 2050 or ARH 2051 or 
C.I. Modern art of Mexico from the Mexican Academy post-
independence to the 1960s.

ARH 3683 AS-ART 3(3,0) Southern Folk Arts: PR: Junior Standing or C.I. This 
course will explore contemporary issues related to folk art 
including definition, collecting, marketing, art criticism, tra-
dition, innovation, and its relationship to the so-called fine 
arts and popular arts.

ARH 3710 AS-ART 3(3,0) History of Photography I: PR: Junior Standing or C.I. 
History of photography from its earliest invention to 
1900. The content of this course is designed for art majors.

ARH 3711 AS-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.

ARH 3720 AS-ART 3(3,0) History of Prints: PR: ARH 2050 and ARH 2051 or C.I. 
History of printmaking in the Western world, surveying 
works by the "great printmakers."

ARH 3820 AS-ART 3(3,0) Visual Arts Administration Vitas: PR: Junior Standing or 
C.I. Grant applications; Personnel; copyright laws; muse-
umum practices, etc.

ARH 4170 AS-ART 3(3,0) Greek & Roman Art: PR: ARH 2050 or HUM 3431 and 
ENC 1102 or C.I. A study of the art and architecture of the 
ancient civilizations of the Mediterranean, comprising 
Greece, Etruria, and Rome.

ARH 4200 AS-ART 3(3,0) Medieval Art: PR: ARH 2050 and ARH 2651. Medieval Art 
from the 6th through 14th centuries, including painting, 
arquitecture, sculpture and illuminated manuscripts.

ARH 4310 AS-ART 3(3,0) Italian Renaissance Art: PR: ARH 2050 and ARH 2651 or 
C.I. A survey of Italian Art and Architecture from 1300 to 
1500.

ARH 4350 AS-ART 3(3,0) Baroque Art: PR: ARH 2050 and ARH 2051 or C.I. A study 
of European Art in the 17th and 18th centuries.

ARH 4430 AS-ART 3(3,0) 19th Century Art: PR: ARH 2050 and ARH 2051. A survey 
of the trends and developments in art during the 19th cen-
tury, including the art of America and of Western Europe.

ARH 4450 AS-ART 3(3,0) 20th Century Art: PR: ARH 2050 and ARH 2051 or C.I. A 
survey of the art from Fauvism, Cubism to the art of the present.

ARH 4545 AS-ART 3(3,0) Art of India: PR: Junior Standing or C.I. Art and archite-
cture of India from prehistoric times through the Gupta, 
Rajput, and Muslim periods.

ARH 4655 AS-ART 3(3,0) Meso American Art: PR: Junior Standing or C.I. A survey 
of the art of Mexico and Central America, from the Pre-
Colombia, through the Spanish Colonial, to the 20th cen-
tury.

ARH 4800 AS-ART 3(3,0) Theory and Criticism of the Visual Arts: PR: ARH 2050 
and ARH 2051 or C.I. Criteria of criticism, analysis of 
works, elements of psychology and sociology of art. 
Developments in the art of the 20th century.

ARH 4892 AS-ART 3(3,0) Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A sur-
vey of women artists from ancient times to the present as 
well as a study of the role Aesthetics and Ideology have 
played in determining representations of women in art.

ARH 5897 AS-ART 3(3,0) Advanced Seminar in Art History: PR: ARH 2050 and 
ARH 2051 or C.I. A study of the role Aesthetics and Ideology have 
played in determining representations of women in art.

ART 2130C ED-TLP 3(2,3) Fibers & Fabrics: Design and production training in sur-
face design, floor loom weaving and fiber sculpture. 
Materials & Supply fee: $5.00

ART 2160C ED-TLP 3(2,3) Metals, Woods, Leathers and Stones: Processes and 
technology of production.

ART 2201C AS-ART 3(2,4) Design Fundamentals-Two Dimensional: PR: ART 
2200. 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. Materials & Supply fee: $15.00

ART 2201H AS-ART 3(2,4)
Honors Design Fundamentals—Two Dimensional: PR: ART 2200. Priority given to students whose major requires this course. Permission of Honors. Materials, processes, forms. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory with Honors content.

ART 2203C AS-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 materials. Materials & Supply fee: $15.00

ART 2300C AS-ART 3(2,4)
Drawing Fundamentals I: PR: ART 2300 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. Materials & Supply fee: $15.00

ART 2301C AS-ART 3(2,4)
Drawing Fundamentals II: PR: ART 2300 and ART 2300 or C.I. Priority given to students whose major requires this course. Continuation of ART 2300. Materials & Supply fee: $15.00

ART 2304 AS-ART 3(3,0)
Drawing: Computer as a Medium: Object drawing, using the computer and drawing stylus as a medium.

ART 2400C AS-ART 3(2,4)
Beginning Printmaking: Basic elements and techniques of printmaking covered. Relief, intaglio, and lithography. Assignments include practical application of printmaking as drawing tool.

ART 2500C AS-ART 3(2,4)
Beginning Painting: PR: ART 2300C, ART 2200C, or C.I. Methods and materials of the painter. Introduction to the problems in painting. Materials & Supply fee: $15.00

ART 2701C AS-ART 3(2,4)
Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2200C, ART 2200C. Materials & Supply fee: $20.00

ART 2754C AS-ART 3(2,4)
Beginning Ceramics: PR: ART 2201C or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery. Materials & Supply fee: $35.00

ART 2820 AS-ART 3(3,0)
Art as Interface: An overview of art department specializations, and selected historical and theoretical information influencing the art curriculum. Examination of aesthetic characteristics shared by the various disciplines and how knowledge of these data is used by the profession to share information with the community.

ART 2820H AS-ART 3(3,0)
Honors Art as Interface: PR: Consent of Honors. An overview of Art department specializations, and selected historical and theoretical information influencing the art curriculum. Aesthetic characteristics shared among the disciplines and their use by the profession. With Honors content.

ART 3161 AS-ART 3(3,0)
Mixed Media: PR: ART 2201C, ART 2200C, ART 2200C, ART 2301. Concepts and techniques involving the creation of art objects by integrating painting, sculpture, drawing, design, and art history.

ART 3332C AS-ART 3(2,4)

ART 3433C AS-ART 3(2,4)
Screenprinting: PR: ART 2201C, ART 2200C, ART 2400C. Techniques of waterbase screenprinting, including digital/photo processes and practical applications of screenprinting as a means for image making.

ART 3504C AS-ART 3(2,4)

ART 3616C AS-ART 3(3,0)
Animation Production Methods: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit. Materials & Supply fee: $15.00

ART 3618C AS-ART 3(3,0)
Post-Production Design: PR: Accepted into Animation program. Special effects and composing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop software.

ART 3643C AS-ART 3(3,0)
Digital Effects & Compositing: PR: Animation major. Special effects and composing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop or comparable software.

ART 3760C AS-ART 3(2,4)

ART 3764C AS-ART 3(2,4)
Ceramic Handbuilding I: PR: Junior standing. Application of a variety of ceramic handbuilding procedures, including design, glaze application and firing process Materials & Supply fee: $35.00

ART 3833C AS-ART 3(4,2)
Processes and Ideas in Art: PR: Junior Standing. This course emphasizes the development of individual creativity and the generation of new insights concerning artistic expression. These "formative activities" must be manifested by students in the form of small sculptures and/or other forms of creativity.

ART 3950 AS-ART 0(0,0)

ART 4132C AS-ART 3(2,4)
Advanced Fiber And Fabrics: PR: ART 2201C, ART 2200C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Advanced problems in design and production, including non-luxuriously weaving processes. May be repeated for credit. Materials & Supply fee: $5.00

ART 4173 AS-ART 3(3,0)
The Artist Book: PR: ART 2201C and ART 2203. Course will explore the definition of book from traditional hand-made to contemporary artist book. Students will redefine its elements, structure and content and be exposed to binding and printing methods in book production. Materials & Supply fee: $25.00

ART 4226C AS-ART 3(3,3)
Post Production for Animators: PR: FIL 3287C. Concepts and tools for finishing computer and traditional animations on film and video. Emphasis on composing tools to combine elements in a finished animation.

ART 4320C AS-ART 3(2,4)
Advanced Drawing: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3332C. May be repeated for credit.

ART 4402C AS-ART 3(2,4)
Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Advanced process in printmaking. May be repeated for credit. Materials & Supply fee: $30.00

ART 4505C AS-ART 3(3,4)
Advanced Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit. Materials & Supply fee: $15.00

ART 4634C AS-ART 3(3,1)
Web Art: PR: ART 2820 or C.I. The Web as a medium for art.

ART 4710C AS-ART 3(2,4)
Advanced Sculpture: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit. Materials & Supply fee: $30.00

ART 4765C AS-ART 3(2,4)
Ceramic Handbuilding II: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2754C, and a satisfactory portfolio review or C.I. Technical skills in manipulating form, function, volume, color and surface texture. Materials & Supply fee: $35.00

ART 4780C AS-ART 3(2,4)

ART 4783C AS-ART 3(2,4)
Advanced Ceramics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. Materials & Supply fee: $34.99

ART 4786C AS-ART 3(2,4)
Ceramic Raw Material: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. An in-depth understanding of the singular and diverse properties of clay and glaze materials. Materials & Supply fee: $35.00

ART 4935 AS-ART 3(3,1)
BFA Exhibit/Seminar: PR: ART 2201C, ART 2203C, ART 2300C, ART 2303C, must complete Studio course for BFA, and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. Exhibition Materials & Supply fee: $15.00

ART 4945 AS-ART 6(0,6)
C.R.E.A.T. Project: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4288C, and a satisfactory portfolio review or C.I. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry.

ART 4971 AS-ART 3(3,0)

ART 5109C AS-ART 3(2,4)
Multi-Cultural Crafts Design: PR: ART 2201C, ART 317
UCF Courses and Descriptions

200C, ART 2300C, ART 2301C, graduate status or senior standing, or C.I. The content of this course will include an appreciation for and the production of Western and Non-Western art forms.

ART 5280C AS-ART 3(3,3)
Serial Content & Classic Form I: PR: Admission to MFA. Studio course exploring serial imaging history, pictographs, alphabet development, typographic design, and the computer as sequenced design concepts and tools.

ART 5284 AS-ART 3(3,0)
Design Theory and Methods: PR: Admission to MFA or C.I. Introduction to semiotic theory, communication theory, perceptual codes, human factors and visual rhetoric.

ART 5670C AS-ART 3(2,4)
Digital Illustration: CR: ART 6683C. Methods and media effects usually associated with traditional illustration in a digital platform.

ART 5694 AS-ART 3(3,0)
Crosscultural Electronic Art & Design: PR: Admission to MFA. Explores digital/electronic art and technology from mid-20th century to present. Explores key electronic artists and issues of the “ars electronica” into the present.

ART 5695 AS-ART 3(3,0)
WebArt I: PR: Admission to MFA. Students will explore the web and experiment with pertinent software, as well as design and implement websites. Projects will be determined at the outset of each semester.

ART 5696 AS-ART 3(3,0)
Art, Design and Human Interactions: PR: Admission to MFA. Exploration and design of interface interactions systems and technologies in contemporary society and culture including place making, way finding, electronic interface design, and publication design.

ART 5698 AS-ART 3(3,0)
Concourse I: PR: ART 5910 and ART 5280C and ART 5694, or C.I. Digital reproduction of studio works.

ART 5811C AS-ART 3(3,1)
The Professional Practice of Art: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C (no graduate level prerequisite), graduate status or senior standing, or C.I. Seminar class on political information pertaining to professional practices in the art world. Overview of inventory processing, accounting, and the marketing of art Materials & Supply fee: $15.00

ART 5910 AS-ART 3(3,0)
Studio Concentration I: PR: Admission to MFA. Course is the primary for production of work in studio. Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be repeated for credit. (2 times)

ART 5934 AS-ART 3(3,0)
Concepts of Contemporary Art: PR: Graduate standing or C.I. Current issues in contemporary international art. Graded SU.

ART 5941 AS-ART 1(1,0)
Graduate Practicum I: PR: Web Art I, graduate status, or C.I. Candidates with cross-disciplinary interests will discuss and analyze issues in digital art making via the internet. Students will use this information to develop projects in their specialization.

ASH 3222 AS-HIST 3(3,0)
Islam and Its Empires: PR: Junior standing or C.I. History of the Middle East and North Africa from the birth of Islam to the 16th century.

ASH 3223 AS-HIST 3(3,0)
The Modern Middle East: PR: Junior standing or C.I. History of the Middle East and North Africa from the 18th century to the present.

ASH 4304 AS-HIST 3(3,0)
Women in China: PR: AMH 1010 and AMH 2020, or EUH 2000 and EUH 2001, or WOH 1200 and WOH 2022. Historical changes and continuities in experiences of Chinese women during the traditional period, the modern era and contemporary times.

ASH 4402 AS-HIST 3(3,0)

ASH 4404 AS-HIST 3(3,0)
China in 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. The Mongols in China; coming of the Europeans; social structure; Communist movement; Japanese aggression.

ASH 4442 AS-HIST 3(3,0)
Modern Japan, 19th and 20th Centuries: PR: EUH 2000 and 1901 or C.I. A survey of the Tokugawa Shogunate; Western contact in the 19th century; World War I; Japanese militarism; World War II; and U.S. occupation.

ASH 5227 AS-HIST 3(3,0)
The Arab-Israeli Conflict: PR: Graduate status or senior standing or C.I. This course examines the history of the Arab-Israeli conflict, placing particular emphasis on its origins in 19th century imperialism and Zionism.

ASH 5408 AS-HIST 3(3,0)
Colloquium in Modern China: PR: Graduate status or senior standing or C.I. Course explores works of scholarship in modern China including the rise of Communism, Chinese women and Sino-American relations.

AST 2002 AS-PHYS 3(3,0)
Astronomy: Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars.

AST 2002H AS-PHYS 3(3,0)
Honors Astronomy: PR: Permission of Honors. Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. Honors level content.

AST 2002L AS-PHYS 1(0,3)

AST 3110 AS-PHYS 3(3,0)

AST 3211 AS-PHYS 3(3,0)

AST 3402 AS-PHYS 3(3,0)
Galaxies and Cosmology: PR: AST 2002, PHY 2053C. Study of the different types of galaxies, their evolution, their relationship to active galaxies and quasars, and the evolution of the universe.

AST 3722C AS-PHYS 3(3,0)

AST 4142 AS-PHYS 3(3,0)
Asteroids, Comets, and Meteorites: PR: AST 2002 or AST 3111. Asteroids, comets, and meteors and their role in the origin and evolution of our solar system.

AST 4501 AS-PHYS 3(3,0)
Celestial Mechanics: PR: PHY 2048, AST 2002. The orbital motions of celestial bodies, including orbit calculation, perturbation theory, and Hofmann transfer orbits.

AST 5165 AS-PHYS 3(3,0)
Planetary Atmospheres: PR: Mechanics PHY 3220 and Modern Physics 3101, graduate status or senior standing, or C.I. This course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets.

AVM 2510 RCHM-HOS 3(3,0)
Airline Management: PR: Junior Standing. The trends, operation, practices, and procedures of the airline industry. Special emphasis on ticketing, scheduling, marketing, and terminal management.

BCH 4053 AS-CHEM 3(3,0)

BCH 4053H AS-CHEM 3(3,0)

BCH 4054 AS-CHEM 3(3,0)
Biochemistry II: PR: BCH 4053. Continuation of BCH 4053.

BCH 4103L AS-CHEM 2(0,6)
Biochemical Methods: PR: BCH 4053. A laboratory course stressing the application of the chemical arts to the separation, identification, and quantification of materials of biological significance. Materials & Supply fee: $45.00

BOT 3152C AS-BIOL 3(1,4)
Local Flora: PR: BSC 2010C and BSC 2011C, or C.I. Recognition and identification of Florida plants, especially those common to central Florida, stressing environmental and ethnobotanical significance. Weekend field trips may be required.

BOT 3800 AS-BIOL 3(3,0)
Ethnobotany: PR: C.I. Historical and modern uses of plants economically important in various cultures. Designed for majors and non-majors.

BOT 3820C AS-BIOL 3(2,1)
Plants and the Urban Environment: PR: Junior standing or C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. For non-majors only. Materials & Supply fee: $15.00

BOT 4156C AS-BIOL 4(2,6)

BOT 4223C AS-BIOL 4(3,3)
Plant Anatomy: PR: BSC 2010C and BSC 2011C, or C.I. A study of development, structure and function of the principal organs and tissues of vascular plants. Materials & Supply fee: $15.00
Biology I: PR: High school biology or C.I. Open only to students whose major requires this specific course. Cellular and chemical basis of life, genetics, and the theory of evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. Materials & Supply fee: $15.00

Biology II: PR: BSC 2010C or C.I. Open only to students whose major requires this specific course. Continuation of BSC 2010C. Organismal anatomy and physiology as it relates to biodiversity, ecology and evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. Materials & Supply fee: $20.00

Honors Biodiversity: PR: Permission of Honors and BSC 2010H or C.I. Open only to students whose major requires this specific course. Continued study of the diversity and classification of terrestrial flora at local, landscape, and global scales. Priority given to students whose major requires this specific course. Continuation of BSC 2010C. Organismal anatomy and physiology as it relates to biodiversity, ecology and evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. Materials & Supply fee: $20.00

Honors Evolution: PR: Permission of Honors. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation. Materials & Supply fee: $25.00

Honors Quantitative Biological Methods: PR: BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation. Materials & Supply fee: $25.00

Nanobiotechnology: PR: MCB 3063, Biology major with 80 semester hours and 3.0 gpa. Preparation of undergraduate students to more effectively learn biological concepts by facilitating learning in a variety of university biology labs. May be repeated for credit. Graded SU.

Biology for AP Teachers: PR: Graduate status or senior standing or C.I. Participant's may perform and evaluate the 12 required labs, analyze the design and grading of the Exam, and develop a representative program.

Course Construction in Business Education: PR: EVT 3365 or C.I. An overview and examination of business curricular and methodology integrated into the vocational frameworks. Planning and preparation of materials, managing the laboratory and involvement in vocational student organizations.

Legal & 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.

Legal & Ethical Environment of Business - Honors: PR: Permission of Honors. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level content.

Business Law I: PR: Junior Standing, Management major or minor, introduction to law; a social and political institution in the business environment. Analysis of statutory and common law principles involved in the formation, operation, and termination of recognized business organizations. Analysis of the effects of government regulation on business activity, including anti-trust and securities regulation.

Business Law II: PR: Management major or minor, or C.I. Preparation of business and commercial transactions, including sales, commercial law, secured transactions and suretyship, contracts, wills and trusts, and property law.


Advanced Business Law Topics: PR: Admission to graduate program, or Management major or minor in term of graduation, UFL 3130. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions.
and regulation on business activity, and the role of law and ethics in the decision-making process.

CAP 4453 ECS-CS 3(3,0)
Robot Vision: PR: COP 3530C and MAC 2212, or C.I. Pin hole camera and eye, perspective and orthogonal projections, the processing of edges, regions, motion, shading, texture, object; robot arm usage.

CAP 4630 ECS-CS 3(3,0)

CAP 4720 ECS-CS 3(3,0)
Computer Graphics: PR: COP 3530C and MAC 2147, or C.I. Math for computer graphics, visibility and shading, graphics and data structure, curves and surfaces, commodality graphics hardware, and graphics API.

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.

CAP 5415 ECS-CS 3(3,0)
Computer Vision: PR: COP 3530C. Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation.

CAP 5419 ECS-CS 3(3,0)

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.

CAP 5610 ECS-CS 3(3,0)

CAP 5636 ECS-CS 3(3,0)

CAP 5725 ECS-CS 3(3,0)
Computer Graphics i: Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems.

CBH 3003 AS-PSYCH 3(3,0)
Comparative Psychology: PR: PSY 2012. A study of comparative behaviors of lower animals.

CCE 4003 ECS-CCE 3(3,0)

CCE 4004 ECS-CCE 3(3,0)
Construction Methods: PR: CES 4100C. Construction project evaluation principles along with construction methods for civil and structural systems.

CCE 4031 ECS-CCE 3(3,0)
Construction Project Management: PR: EGN 3613. Project management in the construction industry. Project financial evaluation on a life cycle basis. Essentials of project management such as estimating, scheduling, contracts, and administration. May be repeated for credit.

CCE 4034 ECS-CCE 3(3,0)
Construction Estimating and Scheduling: PR: CCE 4003. This course covers construction project estimating and bidding and the preparation of construction schedules. This is followed by in-depth coverage of time and cost control.

CCE 4002 ECS-CCE 3(3,0)
Construction Equipment and Productivity: PR: CCE 4003, CWR 3201. Selection of appropriate equipment based on operational parameters, principles of construction productivity measurement and analysis, and discrete event simulation.

CCE 4810C ECS-CCE 3(2,2)
Construction Design Project: PR: Senior Standing, CCE 4044, and CCE 4004. The preparation and development of a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control.

CCE 4813 ECS-CCE 4(4,0)

CCE 5006 ECS-CCE 3(3,0)
Introduction to Construction Industry: PR: post-bac status or C.I. This course introduces students to the construction industry. Topics include project evaluation, project phases, project delivery systems, contracts, estimating and schedule drawing and specifications. Research paper required.

CCE 5036 ECS-CCE 3(3,0)
Construction Estimation and Scheduling: PR: C.I. Provides students with an understanding of estimating and scheduling of construction projects. Topics include detailed estimates, estimating and project control Research paper required.

CCE 5205 ECS-CCE 3(3,0)
Construction Methods: PR: post-bac status or C.I. This class covers construction project evaluation principles along with construction methods for civil and structural systems.

CCE 5406 ECS-CCE 3(3,0)
Construction Equipment and Productivity: PR: C.I. Selection of appropriate equipment based on operational parameters. Principles of construction productivity measurement and analysis Discrete event simulation.

CCE 5815 ECS-CCE 4(4,0)

CCJ 3058 HPA-CJ/LS 3(3,0)
Origins of Criminal Justice: PR: CCJ 3024. Study of criminal justice system evolution. Focus on developments contributing to the institutions and practices of the American criminal justice system.

CCJ 3450 HPA-CJ/LS 3(3,0)
The Criminal Justice Manager: PR: CCJ 3042 or C.I. Elements of first-line supervision and executive development. Administrative leadership; its nature; methods, and traits. Recent theories and research in leadership.

CCJ 3451 HPA-CJ/LS 3(3,0)
Justice System Technology: PR: CCJ 3042 or C.I. Examination of the relevance of scientific and technologically driven developments to justice systems and their applicability to the operations and management of the systems.

CCJ 3483 HPA-CJ/LS 4(4,0)
Labor Relations in Criminal Justice: PR: CCJ 3042 and CCJ 3450 or C.I. Examines the role of public sector labor relations in criminal justice to include management-employee relationships, collective bargaining process, employee organizations, and federal-state laws.

CCJ 3520H HPA-CJ/LS 3(3,0)
Honors Juvenile Offenders: An Integrative Perspective: PR: Permission of Honors. To provide students with an integrative understanding of the social, psychological, and legal dynamics evident in processing juvenile offenders.

CCJ 3667 HPA-CJ/LS 3(3,0)
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.

CCJ 4035 HPA-CJ/LS 3(3,0)
Crime and the Media: PR: CCJ 3042 or C.I. Explore how the criminal justice system, criminal, and crime are portrayed in the media and its impact on society and the criminal justice system.

CCJ 4076 HPA-CJ/LS 3(3,0)
Crime Analysis II: PR: CJE 4654, CJE 4663. Designed to provide advanced data analysis skills that will enable a crime analyst to create sophisticated methodologies to crime analysis.

CCJ 4195 HPA-CJ/LS 3(3,0)
Interviews & Interrogations in CJ: PR: CCJ 3024 (Criminal Justice System) and CJ Major or C.I. The criminal justice interview process including history of criminal justice interviews, the use of Miranda, non-verbal listening, and the rules of testimonial evidence.

CCJ 4296 HPA-CJ/LS 3(3,0)
Famous Crimes & Trials: PR: CCJ 3014 or CCJ 3024 or consent of instructor. A detailed examination of selected famous American crimes and their trials since 1900.

CCJ 4361 HPA-CJ/LS 3(3,0)
Death Penalty: PR: CCJ 3024. This course provides students an opportunity to analyze and discuss complex issues surrounding the death penalty and the criminal justice system.

CCJ 4454 HPA-CJ/LS 3(3,0)
Policy Development in Law Enforcement: PR: CJE 4024. 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.
CCJ 4459 HPA-CJ/LS 3(3,0)
Justice Agency Operations: PR: CCJ 3024 and CCJ 3450 or C.I. Elements, functions, and processes essential to the continuing management of various criminal justice agencies, institutions and court systems.

CCJ 4463 HPA-CJ/LS 3(3,0)
Cultural Diversity in Criminal Justice: PR: CCJ 3024. This course focuses on the problems and issues associateed with race, ethnic and gender relations in the administration of justice in a democratic society.

CCJ 4484 HPA-CJ/LS 3(3,0)
Liability Issues in Criminal Justice: PR: CCJ 3024. Student of fundamental concepts found in civil law with an emphasis on civil liability regarding criminal justice practices.

CCJ 4486 HPA-CJ/LS 3(3,0)
Criminal Justice Ethics: Focuses on the ethical issues and problems commonly encountered in the criminal justice system (policy courts and corrections).

CCJ 4616 HPA-CJ/LS 3(3,0)
Criminal Profiling in Criminal Justice: PR: CCJ 3014. Examines criminal profiling undertaken by law enforcement and prosecution authorities which consists of gathering, reviewing and analyzing evidence pertaining to violent crimes.

CCJ 4641 HPA-CJ/LS 3(3,0)
Organized Crime: An examination of organized crime, including structures, history and activities, and of issues surrounding efforts to define and control it.

CCJ 4644 HPA-CJ/LS 3(3,0)

CCJ 4651 HPA-CJ/LS 3(3,0)
Drugs and Crime: Focuses on the problems of drugs and drug control in contemporary society. Students will examine the problems of drugs in our society as well as specific strategies used by criminal justice agencies to prevent and control illicit drug use.

CCJ 4661 HPA-CJ/LS 3(3,0)
Terrorism: PR: CCJ 3024 and CJE 4014 or C.I. An examination of competing ideologies of a variety of social and political conflicts (both international and domestic) that give rise to terrorism and of the implications for the criminal justice system.

CCJ 4670 HPA-CJ/LS 3(3,0)
Women and Crime: This course covers women in criminal justice as offenders and prisoners, as well as crime victims and professionals working in the system.

CCJ 4681 HPA-CJ/LS 3(3,0)

CCJ 4690 HPA-CJ/LS 3(3,0)
Sex Offenders and the Criminal Justice System: PR: CCJ 3024. Provides student a better understanding of how the criminal justice system deals with sex offenders and their offenses.

CCJ 4701 HPA-CJ/LS 3(3,0)
Research Methods in Criminal Justice: Overview of the social science research methodology used in criminal justice, covers the major forms of research designs used by social science and evaluates their strengths and weaknesses.

CCJ 4934 HPA-CJ/LS 1-3 (1-3,0)
Emergent Criminal Justice Issues: PR: CCJ 3014, CCJ 3024 or C.I. Developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit.

CCJ 5015 HPA-CJ/LS 3(3,0)
The Nature of Crime: This course provides an overview of major dimensions of crime in the U.S.: epidemiology of crime, costs of crime, and typologies of crime and criminals.

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.

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.

CCJ 5105 HPA-CJ/LS 3(3,0)

CCJ 5406 HPA-CJ/LS 3(3,0)
Research and Technology Implementation: Changing roles of social and physical sciences as related to the objectives and administration of public safety agencies.

CCJ 5456 HPA-CJ/LS 3(3,0)
The Administration of Justice: This course provides an overview of the criminal justice system and a critical analysis of formal and informal processing of offenders by criminal justice agencies.

CCJ 5467 HPA-CJ/LS 3(3,0)
Justice and Safety System Manpower: Processes essentials to administration to human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel.

CCJ 5617 HPA-CJ/LS 3(3,0)
Mental Disorder, Crime, and Criminal Justice: PR: CCJ 5456, CCJ 5515, or C.I. An overview of the relationship between mental disorder, crime, and the criminal justice system.

CCJ 5675 HPA-CJ/LS 3(3,0)
Human Rights & Criminal Justice: PR: Senior scholar or graduate standing or C.I. Provides an in-depth analysis of the human rights movement and its potential impact upon criminal law as well as the juvenile and criminal justice systems.

CCJ 5704 HPA-CJ/LS 3(3,0)
Research Methods in Criminal Justice: An examination of the philosophy and techniques of research as applied in the Criminal Justice field.

CCJ 5931 HPA-CJ/LS 3(3,0)
Contemporary Criminal Justice Strategies: PR: Graduate standing or C.I. Graduate level analysis of contemporary crime issues and the reactions of the criminal justice system to combat those crimes at both the national and international levels. May be repeated for credit. (2 times)

CCJ 5934 HPA-CJ/LS 1(1,0)
Criminal Justice Investigative Process: PR: Graduate standing or C.I. Advanced seminar providing students with a broad view of how criminal justice investigative processes operate. Focuses on the roles and responsibilities of agents as investigators. May be repeated for credit. (3 times)

CDA 3103C ECS-CS 3(3,1)
Computer Organization: PR: COP 3502C. Logic design, computer arithmetic, instruction set architecture (MIPS, assemblers, linkers, SPIM simulator), performance, data path, control unit, memory hierarchy, I/O interface.

CDA 4150 ECS-CS 3(3,0)
Computer Architecture: PR: COP 3402C and CDA 3103C. Basic processor design, hardwired and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic.

CDA 4150H ECS-CS 3(3,0)
Honors Computer Architecture: PR: Permission of Honors and COP 3402C and CDA 3103C. Same as CDA 4150 with Honors level content.

CDA 4506C ECS-CS 3(1,2)
Design and Implementation of Computer Communication Networks: PR: COP 3502, MAD 2104 or COT 3100C. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), products (routers, switches, adapters, cabling). Base design and detailed configuration including hands-on exercises.

CDA 4527 ECS-CS 3(3,0)
Analysis of Computer Communication Networks: PR: COT 3100, STA 2023, MAC 2312. Network design using layering. Introduces cabling, topology, architecture, hardware and software. Includes performance and control issues such as congestion control, error control, contention resolution.

CDA 5106 ECS-CS 3(3,0)
Advanced Computer Architecture I: PR: CDA 4150. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O.

CDA 5110 ECS-CS 3(3,0)
Parallel Algorithm and Architecture: PR: COP 4120. CDA 5106. General-purpose vs. special-purpose parallel computers; arrays, message-passing; shared-memory, Taxonomy, parallelization techniques; communication synchronization and granularity; parallel data structures; automatic program restructuring.

CDA 5215 ECS-CS 3(3,0)
Architecture and Design of VLSI: PR: COP 4150 or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system.

CDA 5501 ECS-CS 3(3,0)

CDA 5530 ECS-CS 3(3,0)
Performance Models of Computers and Networks: PR: senior standing or beginning graduate student. Performance Models of Computer Systems and Networks using probability models and discrete event simulations. Queuing Theory and modeling tools

CDA 5532 ECS-CS 3(3,0)

CEG 3301 ECS-CEE 3(3,0)
Engineering and Environmental Geology: PR: EGN 3310 and CHS 1440 or equivalent. Principles of physical geology, with emphasis on engineering and environmental topics. Study of land forms, geologic maps, geologic structure, weathering, groundwater, mass wasting, and earthquakes.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 4702</td>
<td>Reinforced Concrete Structures</td>
<td>3(3,0)</td>
<td>Design of RC members using ACI code; beam flexure and shear; compression bending; bond and development; introduction to continuous frames.</td>
</tr>
<tr>
<td>CES 4702</td>
<td>Concrete Design</td>
<td>3(2,2)</td>
<td>Project course design of concrete structures using concrete and structural analysis methodologies.</td>
</tr>
<tr>
<td>CES 5325</td>
<td>Bridge Engineering</td>
<td>3(3,0)</td>
<td>Structural systems for bridges, loading, analysis by influence lines, slab and girder bridges, composite design, pre-stressed concrete, rating of existing bridges, specifications and economic factors.</td>
</tr>
<tr>
<td>CES 5606</td>
<td>Advanced Steel Structures</td>
<td>3(3,0)</td>
<td>Behavior and design of steel buildings; emphasis on AISC-LRFD building code; complex connections, tension members, stability of compression members, laterally unsupported beams, frames, and beam columns.</td>
</tr>
<tr>
<td>CES 5706</td>
<td>Advanced Reinforced Concrete</td>
<td>3(3,0)</td>
<td>Design of frames, two-way floor systems, shear walls; shear and torsion; compression field theory; inelastic analysis; wind and seismic design; introduction to pre-stressed concrete.</td>
</tr>
<tr>
<td>CES 5821</td>
<td>Masonry and Timber Design</td>
<td>3(3,0)</td>
<td>Structural properties of masonry and timber; design loads-codes and standards; analysis for axial loads, flexure and shear.</td>
</tr>
<tr>
<td>CET 2364</td>
<td>Systems Applications in C</td>
<td>3(3,0)</td>
<td>Linux/Unix System Admin and Applications: PR: CET 2364 or equivalent. Installation, creation and maintenance of file systems, backups, and configuration.</td>
</tr>
<tr>
<td>CET 3198C</td>
<td>Digital Programmable Devices</td>
<td>3(3,2)</td>
<td>Design and implementation of data base systems within the concept of central administration, structured data storage. Programming project. May be repeated for credit.</td>
</tr>
<tr>
<td>CET 4134C</td>
<td>Applied Computer Systems</td>
<td>3(2,2)</td>
<td>Digital Logic Design and Implementation of Data Base Systems: PR: CET 2386 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.</td>
</tr>
<tr>
<td>CET 4427</td>
<td>Applied Database II</td>
<td>3(3,0)</td>
<td>Applied Database II: PR: CET 4427. Continuation of CET 4427. Study of hierarchical database system. Programming project is required. May be repeated for credit.</td>
</tr>
<tr>
<td>CET 4496C</td>
<td>Applied Infobases</td>
<td>3(2,2)</td>
<td>Applied Infobases: PR: ETI 3651, CET 3144C. Study of hierarchical database system. Programming project is required. May be repeated for credit.</td>
</tr>
<tr>
<td>CET 4483</td>
<td>Intro to Local Area Network Technology</td>
<td>3(3,0)</td>
<td>Intro to Local Area Network Technology: PR: ETI 3651. Topics in data communications, computer networking, local area network technology, topologies, and protocols will be covered. May be repeated for credit.</td>
</tr>
<tr>
<td>CET 4505</td>
<td>Applied Operating Systems</td>
<td>3(3,0)</td>
<td>Applied Operating Systems: 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.</td>
</tr>
<tr>
<td>CET 4523</td>
<td>Applied Systems Analysis</td>
<td>3(3,0)</td>
<td>Applied Systems Analysis: 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.</td>
</tr>
</tbody>
</table>
Public Works Engineering: PR: ENV 3001 and CWR 3201. An overview of planning, design, operation and maintenance of public works, with emphasis on water and wastewater treatment plants. May be repeated for credit.

CGN 4808C ECS-CEE 3(2,2)
Civil Engineering Capstone Design: PR: one of the following courses - TSE 4801C, CES 4808C, CES 4790C, CMW 4821C, ENV 4520C, CEG 4801C, or CES 4506C. An interdisciplinary capstone design course requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design.

CGN 5320C ECS-CEE 3(2,2)
Geographic Information systems: Programming theory and application of Geographic Information Systems to Civil Engineering projects.

CGN 5504C ECS-CEE 3(2,2)
Civil Engineering Materials: PR: EGN 3955, EGN 3331, or C.I. Structure, properties, and applications of materials used in civil engineering including concrete, steel, asphalt, wood, soils, and composite materials.

CGN 5506C ECS-CEE 3(2,2)
Asphalt Concrete Mix Design: PR: CEG 4101C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation.

CIS 1060C ECS-CEE 3(2,2)
Introduction to Computer Science: History, typical computer, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. Materials & Supply fee: $15.00

CIS 2100C ECS-CEE 3(2,1)
Computer Fundamentals for Business: Uses of computer and software in business, including business applications, commercial packages, and the Internet. Not open to Computer Science majors. Materials & Supply fee: $15.00

CIS 2615 ECS-CEE 3(3,0)
Spreadsheet Concepts: PR: CIS 1060C. Advanced techniques of spreadsheets, charts, macros, objects, database features and data analysis tools.

CIS 2654C ECS-CEE 3(2,2)

CIS 2585C ECS-CEE 3(2,2)
DesktopInternet Publishing: PR: CIS 1060C or equivalent. Principles and techniques of page layout and formatting for documents and newsletters, presentation techniques, construction of web pages and design of integrated websites.

CIS 3175 ECS-CEE 3(3,0)
Internet Applications: PR: CIS 1060C. HTML coding, using images, sound and animation, advanced text formatting, forms and CSS scripts, introduction to javascript.

CIS 3269 ECS-CEE 3(3,0)
CHM 2045H AS-CHEM 4(3,3) Honors Chemistry Fundamentals I: PR: High school chemistry and permission of Honors. Same as CHM 2045C with honors-level content. Materials & Supply fee: $25.00

CHM 2046 AS-CHEM 3(3,0) Chemistry Fundamentals II: PR: "C" grade or better in CHM 2045C. Continuation of CHM 2045C.

CHM 2046H AS-CHEM 3(3,0) Honors Chemistry Fundamentals II: PR: CHM 2045H and permission of Honors. Same as CHM 2046 with honors-level content.

CHM 2046L AS-CHEM 1(0,3) Honors Chemistry Fundamentals Lab: PR: CHM 2045H and CR: CHM 2046H. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content. Materials & Supply fee: $35.00

CHM 2046L AS-CHEM 1(0,3) Chemistry Fundamentals Laboratory: CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry. Materials & Supply fee: $45.00

CHM 2205 AS-CHEM 5(5,0) Introduction to Organic and Biochemistry: PR: CHM 1032 or equivalent. An introduction to organic chemistry, stressing the chemistry of functional groups and a survey of the biochemistry of proteins, carbohydrates, lipids, and nucleic acids.


CHM 2211 AS-CHEM 3(3,0) Organic Chemistry II: PR: CHM 2210. Continuation of CHM 2210.

CHM 2211L AS-CHEM 2(0,6) Organic Laboratory Techniques I: PR: CHM 2210. An introduction to the laboratory techniques of organic chemistry, including the preparation, reaction, and analysis of organic compounds. Materials & Supply fee: $45.00

CHM 3120C AS-CHEM 5(3,6) Analytical Chemistry: PR: CHM 2046, CHM 2046L. Laboratory practices of classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems. Materials & Supply fee: $25.00

CHM 3212L AS-CHEM 2(0,6) Organic Laboratory Techniques II: PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. Materials & Supply fee: $45.00


CHM 3411 AS-CHEM 3(3,0) Physical Chemistry II: PR: CHM 3410. Continuation of CHM 3410.

CHM 3411L AS-CHEM 2(0,6) Physical Chemistry Laboratory: PR: CHM 3120C and CR: CHM 3411. Classical as well as modern instrumental techniques coupled with computer data processing to measure physical properties and determine atomic and molecular parameters. Materials & Supply fee: $41.00

CHM 3422 AS-CHEM 3(3,0) Applied Physical Chemistry: PR: PHY 2049 and PHY 2049L and MAC 2312. Physical chemistry as applied to the study of biological and forensic science.

CHM 4130C AS-CHEM 4(2,6) Advanced Analytical Laboratory Technique: PR: CHM 2211, CHM 3120C and CHM 3411. A lecture-laboratory course designed to give in-depth coverage to modern methods of analysis including electrochemistry, spectroscopy, and separation techniques. Materials & Supply fee: $25.00

CHM 4220 AS-CHEM 3(3,0) Organic Chemistry III: PR: CHM 2211 or its equivalent. Organic reaction mechanisms and retrosynthetic analysis and their application to synthetic chemistry.

CHM 4610 AS-CHEM 3(3,0) Inorganic Chemistry: CR: CHM 3411. A discussion of descriptive inorganic chemistry based on various bonding theories, thermodynamics, and kinetics.

CHM 4610L AS-CHEM 2(0,6) Inorganic Chemistry Laboratory: PR: CHM 4610. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry. Materials & Supply fee: $25.00

CHM 4914C AS-CHEM 1(1,1) Undergraduate Research Methods: PR: CHM 2211 or C.I. Selection of a research project, instruction in literature searching, seminar preparation, and laboratory techniques beyond the scope of typical chemical laboratories.

CHM 4930 AS-CHEM 1(1,0) Undergraduate Chemistry Seminar: PR: CHM 3411 and CHM 4914C. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar.

CHM 5225 AS-CHEM 3(3,0) 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.

CHM 5235 AS-CHEM 3(3,0) Applied Molecular Spectroscopy: PR: CHM 3120C and CHM 2211, and graduate status or senior standing or C.I. The identification from plants, synthesis, assessment of bioactivity, and design of pharmaceuticals and agrochemicals, as well as the impact of biotechnology in the chemical industry.

CHM 5305 AS-CHEM 3(3,0) Applied Biological Chemistry: PR: CHM 2211, and graduate status or senior standing or C.I. The identification from plants, synthesis, assessment of bioactivity, and design of pharmaceuticals and agrochemicals, as well as the impact of biotechnology in the chemical industry.

CHM 5450 AS-CHEM 3(3,0) Polymer Chemistry: PR: CHM 2211, and graduate status or senior standing or C.I. An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered.

CHM 5451C AS-CHEM 3(1,5) Techniques in Polymer Science: PR: CHM 2211 and CHM 3410, graduate status or senior standing, or C.I. A laboratory and lecture course designed to introduce students to the major polymerization mechanisms along with polymer characterization and processing methods using modern instrumentation. Materials & Supply fee: $45.00

CHM 5580 AS-CHEM 3(3,0) Advanced Physical Chemistry: CR: CHM 3411 and PR: MAC 2313, and graduate status or senior standing or C.I. Selected topics of thermodynamics, kinetics, quantum mechanics, and structure.

CHM 5715C AS-CHEM 3(2,3) Optical Materials Processing and Characterization Techniques: PR: CHM 3411 and CHM 4610 or equivalent. Glasses, crystals and polymeric materials will be processed and characterized for their properties. Laboratory will emphasize material structure and physical property relationships.

CHS 1440 AS-CHEM 4(3,1) Fundamentals of Chemistry for Engineers: PR: One year of high school chemistry or CHM 1032. Basic concepts of chemistry, with emphasis on problem solving and engineering applications. Atomic and molecular structure, states of matter, stoichiometry, equilibria, electrochemistry and thermodynamics. The "NC" grading policy applies to this course.

CHS 3501 AS-CHEM 3(3,0) Introduction to Forensic Science: PR: "C" grade or better in CHM 2046 & L, or C.I. Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab).

CHS 3505C AS-CHEM 4(2,6) Forensic Microscopy: PR: "C" grade or better in CHM 2046 & L, PHY 2049C and CHS 3501. The study of the polarized light microscope and its use in the identification and comparison of trace evidence. Materials & Supply fee: $45.00

CHS 3511C AS-CHEM 4(2,6) Trace Evidence: PR: "C" grade or better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence. Materials & Supply fee: $45.00

CHS 3514C AS-CHEM 3(2,3) Bomb Scene Investigation: PR: Forensic Science major, CHS 3501 or C.I. Procedures for recognizing, collecting, preserving, and analysis of evidence from a post blast bombing crime scene. May be repeated for credit.

CHS 3530C AS-CHEM 4(2,6) Forensic Analysis of Controlled Substances: PR: "C" grade or better in CHM 3120C, CHM 3410, CHM 2211 & L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances. Materials & Supply fee: $45.00

CHS 3533C AS-CHEM 3(2,3) Forensic Biochemistry: PR: "C" or better in BSC 2010C, PCB 3063L & L, and PCB 3233L & L. Introduction to the concepts and procedures of contemporary forensic biochemistry, including the identification of body fluids and the use of genetic markers to establish identity. Materials & Supply fee: $30.00

CHS 3540C AS-CHEM 2(1,3) Fire and Debris Analysis I: PR: CHM 3120C and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence.

CHS 3595 AS-CHEM 3(3,0) Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings.

CHS 3949 AS-CHEM 0(0,8) Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded SU.
CHS 4200 AS-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.

CHS 4506C AS-CHEM 3(2,3) Forensic Investigation Technology: PR: A grade of "C" or better in CHS 351C. Modern technology applied to forensic investigation.


CHS 4532 AS-CHEM 3(3,0) Interpretation of DNA Evidence: PR: Grade of "C" or better in CHS 3533C. Concepts and principles of genetic data analysis as applied to forensics.

CHS 4534C AS-CHEM 3(1,6) Forensic Biochemistry II: PR: CHS 3533C and C.J. Advanced treatment of the theoretical and practical aspects of forensic DNA analysis and the use of population genetics and genetic data analysis for evidence interpretation. Materials & Supply fee: $45.00

CHS 4537 AS-CHEM 2(2,0) Forensic Laboratory Quality Assurance: PR: Grade of "C" or better in CHS 3501, CHS 3505C, and CHS 3533C. Concepts and principles of quality assurance and quality systems management in forensic laboratories.

CHS 4541C AS-CHEM 2(1,3) Fire and Debris Analysis II: PR: CHS 3404C or C.I. An advanced lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in real fire related evidence.


CHS 4591 AS-CHEM 4(0,40) Forensic Science Internship: PR: Senior standing, with in 8 hrs. of completion of degree requirements, and 2.5 overall GPA. Credit for full-time work (15 weeks; 600 hours) for a professional forensic laboratory. This course may be repeated for credit.

CHS 4615 AS-CHEM 3(3,0) Environmental Chemistry: PR: CHM 2046, senior level in biological, molecular, chemical or engineering sciences, or C.I. Principles of environmental chemistry, survey of environmental law, remediation technologies, industrial practices and environmentally responsible chemistry.

CHS 5502 AS-CHEM 3(3,0) 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, discrimination and individualization of evidence.

CHS 5503 AS-CHEM 3(3,0) Topics in Forensic Science: PR: Graduate status or C.I. Will include the history of Forensic Science and current issues such as Digital Evidence.

CHS 5518 AS-CHEM 3(3.0) The Forensic Collection and Examination of Digital Evidence: PR: Adv. topics in Forensic Science, graduate status, or C.I. This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures.

CHS 5596 AS-CHEM 3(3,0) The Forensic Expert in the Courtroom: PR: CHS 3533, CHS 6535, CHS 6536, or C.I. A study of the uses of technical and scientifically trained expert witnesses at trial.


CH 3134 HPA-CJ/LS 3(3,0) 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 programming.

CH 3164 HPA-CJ/LS 3(3,0) Community-Based Corrections: PR: CCJ 3024 and CHC 3130 or C.I. An overview and analysis of correction interventions and treatment programs in the community.

CJC 4410 HPA-CJ/LS 3(3,0) Correctional Interventions in Criminal Justice: PR: CCJ 3031. Interventions techniques used with juvenile and adult offenders in institutional and community-based settings and study of the theoretical foundations.

CJC 5020 HPA-CJ/LS 3(3,0) Foundations of Corrections: PR: C.I. Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices.

CJE 3001 HPA-CJ/LS 3(3,0) Careers in Criminal Justice: PR: CCJ 3024. Introductory course with focus on components of the Criminal Justice process (law enforcement, courts, and corrections) and employment opportunities within the Criminal Justice system.


CJE 3662 HPA-CJ/LS 3(3,0) CJ Information Technology and Data Management: PR: CCJ 3024. Designed to familiarize with concepts of databases, uses, and applicability to crime analysis.

CJE 4014 HPA-CJ/LS 3(3,0) Police and Society: PR: CCJ 3024. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture.


CJE 4410 HPA-CJ/LS 3(3,0) 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.

CJE 4630 HPA-CJ/LS 3(3,0) Serial Murder and Criminal Justice: PR: CCJ 3014. Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution.

CJE 4654 HPA-CJ/LS 3(3,0) Crime and Place: PR: CCJ 3024. Provides an understanding of how physical environmental features - the natural and built environment - influences crime events.

CJE 4663 HPA-CJ/LS 3(3,0) Crime Analysis I: PR: CJE 4654. Provides the essential data analysis skills necessary to effectively analyze crime, understand crime data structures and the problems inherent in crime data.

CJE 5688 HPA-CJ/LS 3(3,0) 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.

CJJ 4564 HPA-CJ/LS 3(3,0) Delinquency Control: PR: CCJ 3024 and C.J. 3510 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices.

CJL 3110 HPA-CJ/LS 3(3,0) Criminal Law in Action: Basic concepts of criminal law: elements of major crimes, criminal responsibility, defenses, and parties to crime.

CJL 3510 HPA-CJ/LS 3(3,0) Prosecution and Adjudication: PR: CCJ 3024 or PLA 3013 or C.I. Examination of structures and goals of offices and prosecution and criminal trial courts, and of the processes of charging, adjudicating, and sentencing defendants.

CJL 4010 HPA-CJ/LS 3(3,0) Legal Aspects of Policing: PR: CJE 4014. The legal dimensions of various police decision-making stages; including stops and frisks; arrests; searches and seizures wiretappings; and interrogations.

CJL 4410 HPA-CJ/LS 3(3,0) Legal Aspects of the Criminal Court Process: PR: CJL 3510. The legal dimension of various criminal court decision making stages, including bail; charging; preliminary hearing; grand jury; pretrial hearings plea hearings; trial; and, sentencing.


CJT 3803 HPA-CJ/LS 3(3,0) Security Management: PR: CCJ 3024. Examination of a global security management environment impacted by downsizing a dramatically changing work force, religious extremism/terrorism, technological revolution and other challenges.

CJT 3804 HPA-CJ/LS 3(3,0) Security Administration: Discussion of modern security administration and the security-law enforcement interface, emphasizing a systems approach and utilizing the design of a security plan for a plant.
CJT 4100  HPA-CJ/LS  3(3.0)
Criminal Investigation: PR: CJ 4014. Course acquaints students with basic Procedures used in Criminal investigations, purpose of investigations, and ingredients for successful investigations.

CJT 4843  HPA-CJ/LS  3(3.0)
Risk Management in Criminal Justice/Private Security: PR: CJ 3604. This course examines the concept of risk management in a criminal justice context.

CLA 3850  AS-PHIIL  3(3.0)
Classical Mythology: PR: ENC 1102 and either HUM 2211, REL 2300, WOH 2202, or LIT 2110. Myths of the Greeks & Romans studied through excerpts from ancient sources and experienced through works of art, literature, and music.

CLA 3851  AS-PHIIL  3(3.0)
Comparative Mythology: PR: ENC 1102 and either HUM 2230, REL 2300, WOH 2202, or CLA 3850. Common themes found in the myths of various cultures; theories of their origins, meaning and value in human experience.

CLP 3004  AS-PSYCH  3(3.0)

CLP 3143  AS-PSYCH  3(3.0)

CLP 3184  AS-PSYCH  3(3.0)
Women's Mental Health: PR: PSY 2012. Social and cultural factors of mental health issues and conditions that are unique to or primarily impact women in the U.S. today.

CLP 3302  AS-PSYCH  3(3.0)
Clinical Psychology: PR: PPE 3003 and CLP 3143. An overview of approaches to psychopathology; methods of clinical assessment, and various approaches to individual and group counseling.

CLP 3413  AS-PSYCH  3(3.0)
Contemporary Behavior Therapy: PR: CLP 3143. Emphasis on the underlying principles and the specific intervention procedures which are utilized in contemporary behavior therapy, including treatment strategies for particular behavior disorders.

CLP 3467C  AS-PSYCH  3(2,2)
Interpersonal Effectiveness and Group Psychotherapy: PR: PSY 2012. Psychological aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth.

CLP 4134  AS-PSYCH  3(3.0)

CLP 4314  AS-PSYCH  3(3.0)
Health Psychology: PR: CLP 3143, PSB 3002, PPE 3003. Interactions between psychosocial and physical conditions, in prevention, diagnosis, intervention and health care delivery policy planning. Course will cover empirical phases for prevention, assessment and intervention approaches for these focal areas: cancer, chronic heart disease, diabetes, HIV disease, pain and stress.

CLP 4390  AS-PSYCH  3(3.0)
Forensic Psychology: PR: PSY 2012 and SOP 3751. Clinical practice of psychology within the legal system, including forensic evaluation of competency/insanity, treatment, and criminal profiling.

CLP 4402C  AS-PSYCH  3(2,2)

CLP 5166  AS-PSYCH  3(3.0)
Advanced Abnormal Psychology: PR: Graduate status or senior standing or C.I. Consideration of classification, causation, management and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory.

CLP 5187  AS-PSYCH  3(3.0)
Mental Health and Aging: PR: Graduate status or senior standing or C.I. Introduction to assessment and intervention issues, practice and research related to problems with cognitive and emotional functioning among older adults. May be repeated for credit.

CMC 4240  AS-R/TV  3(1,2)
Corporation/Institutional Video: PR: RTV 3200, RTV 3280C (RTV 3260 may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation.

COM 1000  AS-COMM  3(3,0)
Communication: Basic factors affecting human interaction through communication, theories and models of communication.

COM 2347C  AS-COMM  1(1,1)
Sports Speaking and Interviewing: PR: SPC 1600. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U.

COM 3011C  AS-COMM  3(1,2)

COM 3013  AS-COMM  3(3.0)
Communication and the Family: PR: SPC 1600. The ways members of a family unit interact verbally and nonverbally to influence one another.

COM 3110  AS-COMM  3(3,0)
Business and Professional Communication: PR: Majors only, SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and professions.

COM 3110H  AS-COMM  3(3,0)
Honors Business and Professional Communication: PR: Majors only, SPC 1600 or C.I. and consent of Honors. Theoretical and practical training in effective presentational speaking for business and professions. With Honors content.

COM 3120  AS-COMM  3(3.0)
Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies.

COM 3311  AS-COMM  3(3.0)
Communication Research Methods: PR: STA 2014C. Research methods used in communication. Understanding and interpretation of original research emphasized.

COM 3330  AS-COMM  3(3,0)
Computer Mediated Communication: PR: CGS 1060C. Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations.

COM 3332  AS-COMM  3(3,0)
Communication, Technology, and Change: PR: SPC 1600. How new technologies influence (and are influenced by) communication in a variety of contexts, including organization and interpersonal settings.

COMM 4014  AS-COMM  3(3,0)
Gender Issues in Communication: PR: SPC 1600 and Junior Standing. A study of how communication exchanges, both verbal and non-verbal, differ between men and women, and how these differences are manifested.

COM 4461  AS-COMM  3(3.0)
Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts.

COM 4462  AS-COMM  3(3.0)
Conflict Management: PR: COM 3311. The study of communication in everyday conflicts.

COM 2200  ECS-CS  3(3,0)
Computer Programming: PR: College algebra and trigonometry or equivalent. Problem definitions, algorithms, flow charts, digital computer programming using a higher level language (FORTRAN). Not open to Computer Science Majors.

COM 2500C  ECS-CS  4(3,1)
Concepts in Computer Science: Fundamental concepts in program design, data structures, algorithms, analysis and a survey of topics in C. Not open to Computer Science majors.

COM 3223  ECS-CS  3(3,0)
Introduction to Programming with C: Equivalent to EGN 3211. Programming in C including arrays, pointer manipulation and use of standard C math and IO libraries.

COM 3330  ECS-CS  3(3,0)
Object Oriented Programming: PR: COP 3223. Object oriented programming concepts (classes, objects, methods, encapsulating, inheritance, interfaces) and the expression of these concepts in the programming languages such as JAVA

COM 3346  ECS-CS  3(3,0)
Unix Programming: PR: Knowledge of a high level language. Unix file system, shells, shell programming, filters and program development in Unix.

COM 3402C  ECS-CS  3(3,0)

COM 3502C  ECS-CS  3(3,0)
Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion.

COM 3502H  ECS-CS  3(3,0)
Honors Computer Science I: PR: Permission of Honors and COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion.

COM 3503C  ECS-CS  3(3,0)
Computer Science II: PR: COP 3502C and COP 3330. Continuation of Computer Science I. Introduction to object-oriented design, data structures, traversal algorithms and program correctness.

COM 3503H  ECS-CS  3(3,0)
Honors Computer Science II: PR: Permission of Honors and COP 3502H, COP 3330. Continuation of Honors
Computer Science I. Object oriented design, data structures, traversal algorithms and program correctness.

COP 3530C ECS-CS 3(3,0) Computer Science II: PR: COP 3500 Foundation Exam. Algorithm design and analysis for tree, list, set, relational and graph data models; effects of representation on algorithmic complexity. Introduction to parallel implementations.

COP 4020 ECS-CS 3(3,0) Programming Languages I: PR: COP 3530C. Survey of programming languages (LISP, MODULA, SIMULA, SMALLTALK, ADA, C, and C++). Basic concepts underlying programming languages: data typing, data abstraction, binding, parameter evaluation, concurrency, functional programming.

COP 4020H ECS-CS 3(3,0) Honors Programming Languages I: PR: Consent of Honors and COP 3530C. Deeper understanding of the paradigms and fundamental concepts of programming languages, such as scope, binding, abstraction, encapsulation, typing, etc. Object-oriented, functional and logic programming paradigms will be introduced through programming languages. With Honors content.

COP 4232 ECS-CS 3(3,0) Software Systems Development: PR: COP 3500 (Foundation Exam) and COP 3530C. The principles, processes and methods for developing large software systems in object-oriented programming languages such as Ada and C++.

COP 4516C ECS-CS 3(1,3) Problem Solving Techniques and Team Dynamics: PR: COP 3500. Design and implement solutions to problems requiring the applications of the different algorithms. Team project format.

COP 4520 ECS-CS 3(3,0) Concepts of Parallel and Distributed Processing: PR: COP 3530C, COP 3402C. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms.

COP 4521 ECS-CS 3(3,0) Projects in Parallel and Distribution Processing: PR: COP 4520. Research and projects related to emerging architectures, computational models, languages and environments for parallel and distributed computation.

COP 4600 ECS-CS 3(3,0) Operating Systems: PR: COP 3402C and COP 3530C. The function and organization of operating systems, process management, virtual memory, and file management.

COP 4600H ECS-CS 3(3,0) Honors Operating Systems: PR: Permission of Honors and COP 3402C and COP 3530C. Same as COP 4600 with Honors level content.

COP 4610L ECS-CEE 3(0,3) Operating Systems Laboratory: PR: COP 3500C. CR: EEL 482X. Exercises in the configuration, development, management and analysis of operating systems; OS Kernel support for semaphores and multi-tasking; security in a distributed heterogeneous environment.

COP 4710 ECS-CS 3(3,0) Database Systems: PR: COP 3530C. Storage and access Structures, database models and languages, related database design, and implementation techniques for database management systems.

COP 4910 ECS-CS 3(3,0) Frontiers in Information Technology: PR: COP 4610L, CET 4741L. Research into leading edge information technologies that have a high likelihood of affecting the work place in the two to five year time frame.

COP 5021 ECS-CS 3(3,0) Program Analysis: PR: COP 4020 and COP 4710. Syntactic and Semantic analysis of programs. Theoretical and practical limitations, attribute evaluation, data flow analysis, program optimization, intermediate representa- tions code generation, Tools to automate analysis.

COP 5537 ECS-CS 3(3,0) Network Optimization: Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportation, web and other applications.

COP 5631 ECS-CS 3(3,0) Operating Systems Design Principles: PR: COP 4500. Structure and functions of operating systems, process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies.


COT 3100H ECS-CS 3(3,0) Honors Introduction to Discrete Structures: PR: Permission of Honors and MAC 1105, MAC 1141. Logic, sets, functions, relations, combinatorics, graphics, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity.

COT 3960 ECS-CS 0(1,0) Foundation Exam: PR: COP 3500C and COP 3100C. Foundation examination for computer science majors. Required before taking COP 3530C, and COP 3402C and other 4000 level courses. Graded S/U.


COT 4210 ECS-CS 3(3,0) Discrete Computational Structures: PR: COP 3500C. Introduction to computational theory. A study of the properties of grammars and automata as formal specifications for algorithms and families of languages.


COT 4810 ECS-CS 3(3,0) Topics in Computer Science: PR: COP 3500C and COP 3402C. A range of topics from the field of Computer science: application of oral and written communication skills; social, ethical and moral issues of computing.

COT 5310 ECS-CS 3(3,0) Formal Languages and Automata Theory: PR: COP 4020 and COP 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. UK(R) grammars.

COT 5405 ECS-CS 3(3,0) Design and Analysis of Algorithms: PR: COT 4210 and COT 4110. Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis.

COT 5507 ECS-CS 3(3,0) Computational Methods/Applications: PR: COT 4500. Computational solution techniques for algebraic equations, ODE and PDE Models of applications selected from science, engineering, applied mathematics, and computer science.

COT 5510 ECS-CS 3(3,0) Computational Methods/Linear Systems: PR: COT 4500 and MAS 3306. Mathematical models for linear systems, linear programming, the simplex method, integer and mixed-integer programming, introduction to nonlinear optimization and linearization.

COT 5520 ECS-CS 3(3,0) Computational Geometry: PR: COT 5405. Geometric searching, point location, convex hulls, proximity problems, Voronoi diagrams, spanning trees, triangulation, intersection arrangement applications.

CPO 3034 AS-POLS 3(3,0) Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations.

CPO 3103 AS-POLS 3(3,0) Comparative Politics: PR: POS 2041 or C.I. Government and politics in selected nations, with emphasis upon comparative analysis of contemporary problems, politics, political culture, behavior, and institutions.

CPO 3104 AS-POLS 3(3,0) Politics of Western Europe: PR: POS 2041 or C.I. An examination of the political and economic dynamics of Western Europe in the post-1945 era.

CPO 3132 AS-POLS 3(3,0) Canadian Studies: A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy.

CPO 3403 AS-POLS 3(3,0) Politics of the Middle East: PR: POS 2041 or C.I. An examination of the dynamics of Middle East politics, including both regional and international dimensions.

CPO 3403H AS-POLS 3(3,0) Honors Politics of the Middle East: PR: Permission of Honors. An examination of the dynamics of Middle East politics, including both regional and international dimensions. Honors level content.

CPO 3614 AS-POLS 3(3,0) Politics of Eastern Europe: PR: POS 2041 or C.I. An examination of the political and economic dynamics of Eastern Europe in the post-1945 era.

CPO 4062 AS-POLS 3(3,0) Comparative Judicial Process: Study of courts and judges in cross national context. Focus upon judicial recruitment, decisional patterns, and policy outcomes.

CPO 4074 AS-POLS 3(3,0) Political Economy: PR: Junior standing or C.I. Interrelationship of political and economic phenomena of both advanced industrial societies and less developed countries.

CPO 4101 AS-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.
CPO 4123 AS-POLS 3(3,0) Government and Politics of Great Britain: A survey of British government, society, politics and institutions, emphasizing parliamentary traditions. Britain's foreign policy and European role will be discussed.

CPO 4303 AS-POLS 3(3,0) Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region.

CPO 4445 AS-POLS 3(3,0) Comparative Political Parties: PR: POS 2041, and Junior standing or C.I. Theories of the formation, structures, organization, and behavior of political parties and political party systems in comparative perspective.

CPO 4553 AS-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.

CPO 4643 AS-POLS 3(3,0) Government and Politics of Russia: Study of the origins, institutions, and functioning of the Russian system, including the lingering influence of the old order on domestic and foreign policy.

CPO 4710 AS-POLS 3(3,0) Women in Comparative Politics: PR: Junior standing or C.I. A cross-national perspective on women and politics; how women behave politically in various political and economic contexts.

CPO 4754 AS-POLS 3(3,0) Comparative Political Institutions: PR: POS 2041, Jr. standing or C.I. The course analyzes major types of political institutions from a comparative perspective including electoral laws, division of power, types of democracy, federalism, and the judiciary.

CPO 4784 AS-POLS 3(3,0) Political and Economic Inequality in Comparative Perspective: PR: POS 2041, Jr. standing or C.I. Economic and political inequality and the nature of the link between them across countries with different political and economic institutions.

CPO 5334 AS-POLS 3(3,0) Contemporary Politics of the Mayan Region: PR: 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.

CRW 2100 AS-ENG 3(3,0) Fiction Writing: CRW 3013. English majors in creative writing specialize in fiction writing; advanced group analysis and critique of work produced by individual students.

CRW 2300 AS-ENG 3(3,0) Theory and Practice of Poetry Writing: PR: CRW 3013, English or English Education major, Junior standing, or C.I. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism.

CRW 3010H AS-ENG 3(3,0) Honors Creative Writing: PR: Honors GEP completion and 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.

CRW 3013 AS-ENG 3(3,0) Creative Writing for English Majors: PR: ENC 1102 and English or English Education major, Junior standing, or C.I. Literary genres, practice and critique of peer writing, critical reading of established authors. Not open to students with credit in CRW 3XXX (Creative Writing for non-majors).

CRW 3120 AS-ENG 3(3,0) Fiction Writing Workshop: PR: ENC 1102 and (CRW 2100 or CRW 3013) and Junior standing. An intermediate level fiction writing workshop for English majors; group analysis and critique; close reading of contemporary fiction and fiction theory.

CRW 3211 AS-ENG 3(3,0) Creative Nonfiction Writing: CRW 3013 and English or English Ed major or C.I. Writers present original nonfiction writing for class response and individual conferences. Close reading of key works of creative nonfiction with discussion of definitions of the genre.

CRW 3310 AS-ENG 3(3,0) Poetry Writing Workshop: PR: ENC 1102 and CRW 2300 or CRW 3013. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory.

CRW 3311 AS-ENG 3(3,0) Structure of Verse: PR: ENC 1102. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, scanison, and poetic rhetorical devices.

CRW 3540 AS-ENG 3(3,0) Literary Magazines: CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature.

CRW 3610 AS-ENG 3(3,0) Writing Scripts: PR: CRW 3013 or C.I. Theory and practice of writing scripts for film and TV.

CRW 4014 AS-ENG 3(3,0) The Writing Life: Writers' Fictions and Practices: PR: CRW 2100, CRW 2300 or CRW 3211. Critical/creative work and fictional works by a series of authors.


CRW 4122 AS-ENG 3(3,0) Advanced Fiction Writing Workshop: PR: CRW 3120. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4123 AS-ENG 3(3,0) Science Fiction Writing: CRW 3013. Study of science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments.

CRW 4224 AS-ENG 3(3,0) Advanced Nonfiction Workshop: PR: CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit.

CRW 4320 AS-ENG 3(3,0) Advanced Poetry Writing Workshop: PR: CRW 3013 and CRW 3101, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4616 AS-ENG 3(3,0) Advanced Scriptwriting Writing: PR: CRW 3610. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. May be repeated for credit.

CRW 5020 AS-ENG 3(3,0) Graduate Writing Workshop: PR: Graduate status or senior standing or C.I. Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher.

CRW 5130 AS-ENG 3(3,0) Form and Theory in Creative Writing: PR: Graduate standing and instructor consent. Formal and theoretical study of creative writing of given genre (poetry, short fiction, etc.). May be repeated when genre differs.

CRW 5932 AS-ENG 3(2,1) Teaching Creative Writing: PR: Graduate status or senior standing or C.I. Creative writing practicum. May be repeated for credit.

CRW 5948C AS-ENG 3(2,1) Creative Writing Service Learning: PR: Graduate Standing or C.I. On-site experience leading and sharing creative writing in community settings. May be repeated for credit 2 times.

CWR 3201 ECS-CEE 3(3,0) Engineering Fluid Mechanics: PR: MAP 2302; CR: EGN 3343. Fundamentals of fluid mechanics with hydraulic applications: fluid properties, hydrostatics, dimensional analysis, energy, momentum, continuity, and steady flow.

CWR 4101C ECS-CEE 3(3,0) Hydrology: PR: STA 3032; CWR 3201. Hydrological cycle, probabilistic forecasting, rainfall excess meteorology, groundwater, storm-water runoff, flood routing and design applications. Materials & Supply 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. Materials & Supply fee: $20.00

CWR 4812C ECS-CEE 3(2,2) Water Resources Design: PR: CWR 4101C; CWR 4203C. Project course for the design of storm water and sewer transmission systems using local and state regulations. Materials & Supply fee: $15.00

CWR 5125 ECS-CEE 3(3,0) Groundwater Hydrology: PR: CWR 4203C or equivalent. Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations.

CWR 5205 ECS-CEE 3(3,0) Hydraulic Engineering: PR: CWR 4101C and CWR 4203C. Concepts of fluid mechanics and hydraulics applied to natural and man-made flow of intent to civil and environmental engineering.

CWR 5545 ECS-CEE 3(3,0) Water Resources Engineering: PR: CWR 4101C. CWR 4203C. Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

DAA 2100C AS-THEA 2(2,1) Modern Dance I: PR: Theatre major, Dance minor, or department consent. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures.

DAA 2101C AS-THEA 2(2,1) Modern Dance II: PR: DAA 2100C and DAA 2200C. Theatre major, Dance minor, or department consent. Intermediate exploration of form, style, and technique in creative movement, including practical class work and history lectures.
DAA 2200C  AS-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.

DAA 2201C  AS-THEA  2(2,1)  
Ballet II: PR: DAA 2200C and Theatre major, Dance minor, or department consent. Intermediate classical ballet technique, including principles, theory, and practice technique.

DAA 2393C  AS-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.

DAA 2520C  AS-THEA  2(2,1)  
Tap Dance I: PR: Theatre major, Dance minor, or department consent. Form, style, and technique in the basic fundamentals of movements of tap dance.

DAA 2521C  AS-THEA  2(2,1)  
Tap Dance II: PR: DAA 2520C and Theatre major, Dance minor, or department consent. Intermediate exploration of form, style, and technique of tap dance.

DAA 2540  AS-THEA  3(2,2)  
Dance Technique I: PR: or CR: THEA 2020 or THE 2020 or departmental consent. The study and application of fundamental dance techniques as they relate to musical theatre dance styles.

DAA 2570C  AS-THEA  2(2,1)  
Jazz Dance I: PR: Theatre major, Dance minor, or department consent. Basic movements of American Jazz dance, including practical class work and Jazz dance history.

DAA 2571C  AS-THEA  2(2,1)  
Jazz Dance II: PR: DAA 2570C and Theatre major, Dance minor, or department consent. Intermediate Jazz dance using theory and practice in jazz technique.

DAA 2610  AS-THEA  3(3,0)  
Dance Improvisation/Composition I: PR: DAA 2100C. Theatre major, Dance minor, or department consent. Fundamental study and exploration of dance composition.

DAA 2640  AS-THEA  3(2,2)  
Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit.

DAA 3102C  AS-THEA  2(2,1)  
Modern Dance III: PR: DAA 2101C and Theatre major, Dance minor, or department consent. Advanced exploration of form, style, and technique in creative movement. May be repeated for credit.

DAA 3202C  AS-THEA  2(2,1)  
Jazz Dance III: PR: DAA 2571C and Theatre major, Dance minor, or department consent. Advanced study of jazz dance, using theory and practice of jazz technique. May be repeated for credit.

DAA 3502C  AS-THEA  2(2,1)  
Tap Dance III: PR: DAA 2521C and Theatre major, Dance minor, or department consent. Advanced exploration of form, style, and technique of tap dance. May be repeated for credit.

DAA 3524C  AS-THEA  2(2,1)  
Choreography Practicum: PR: DAA 2100C and Theatre major, Dance minor, or department consent. Student performance in a concert dance work. May be repeated for credit.

DAA 3645  AS-THEA  2(2,20)  
Dance Performance: PR: DAA 2200C and Theatre major, Dance minor, or department consent. Student performance in a concert dance work. Students must be registered in a dance technique class. May be repeated for credit.

DAA 3680  AS-THEA  1(1,10)  
Dance and Rhythms: The development of skill proficiency and instructional strategies in rhythms and dance techniques, and fundamental movement patterns for grades K-12.

DAN 2130  AS-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 presbythery through the seventeenth century.

DEP 2004  AS-PSYCH  3(3,0)  

DEP 3202  AS-PSYCH  3(3,0)  
Psychology of Exceptional Children: PR: PSY 2012. Psychological problems of exceptional children, including diagnosis, associated emotional problems, effects of institutionalization, special class placement, attitudes, and appropriate intervention methods.

DEP 3464  AS-PSYCH  3(3,0)  
Psychology of Aging: PR: PSY 2012. An examination of basic psychological processes related to the aging process, with emphasis on the applied implications of changes in perceptual-motor, social emotional and cognitive- intellectual functioning.

DEP 5057  AS-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.

DIG 2000  AS-DIG  3(3,0)  
Introduction to Digital Media: CR: ENC 1103. 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.

DIG 3001  AS-DIG  3(3,0)  

DIG 3035L  AS-DIG  1(0,3)  
Digital Media Service I: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded SU.

DIG 3135C  AS-DIG  3(2,1)  
Digital Imagery: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Technical principles of digital photography and scanned image capture for use in video games, internet and interactive software. Project oriented.

DIG 3286C  AS-DIG  3(3,0)  
Assembling Digital Media: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Assembly and editing of images and sounds for use in interactive media. Project oriented.
UCF Courses and Descriptions

DIG 4206C AS-DIG 4(3,3)  New Imagery in Motion Workshop: PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of new approaches to visual communication, new narrative structures, new and emerging media.

DIG 4323 AS-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-realistic applications, operating high performance CAD systems, and using higher-order modeling techniques. Introduction to rigging and animation controls, materials, lighting and rendering.

DIG 4324 AS-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.

DIG 4325C AS-DIG 4(3,3)  Look Modeling Workshop:PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques, mechanics of designing, developed finished look emphasis on rendering, shading, texturing, and lighting.

DIG 4326C AS-DIG 4(3,3)  Geometrical Modeling Workshop: PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques and mechanics of designing and manipulating geometrical representations artificial characters and their environments; introduction to procedural models.

DIG 4359C AS-DIG 4(3,3)  Artificial Environments and Effects Workshop: PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of artificial environments, with emphasis on compositing, image processing, visual style, visual continuity.

DIG 4369C AS-DIG 4(3,3)  Artificial Characters Workshop: PR: DIG 3362 and successful portfolio review, or C.I. Techniques and mechanics of artificial characters, with emphasis on attitude in action, personality of character expressions, and bringing characters to life.

DIG 4451C AS-DIG 4(3,3)  Visual Storytelling and Visual Development Workshop: PR: DIG 3430 and successful portfolio review, or C.I. Techniques, mechanics of visual development with emphasis on strong visual designs which communicate effectively.

DIG 4455C AS-DIG 3(3,0)  Interactive Performance II: PR: DIG 3450C or C.I. Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure.


DIG 4522L AS-DIG 1(0,3)  Digital Media Service II: PR: DIG 4035L and a minimum grade of "B" (3.0) or better in DIG 3001. Continued participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded SU.

DIG 4523L AS-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 SU.

DIG 4524L AS-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.

DIG 4526C AS-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.

DIG 4640 AS-DIG 3(3,0)  Autonomous Media: PR: IDS 3701C 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.

DIG 4641 AS-DIG 3(3,0)  Creative Digital Devices: PR: IDS 3701C and ART 2201C and a minimum grade of "B" (3.0) or better in DIG 3001. The physical construction and computer control of electromechanical devices, and the use of software libraries for controlling tested hardware, for entertainment and creative applications.

DIG 4645 AS-CSC 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.

DIG 4713C AS-DIG 3(2,2)  Game Design: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Principles of design for interactive games and learning experiences. Psychology of play, storytelling, and character development. Project oriented.

DIG 4715C AS-DIG 3(2,2)  Game Engines: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Principles of 3D interactive graphics and simulation as used in "game engines," software systems for building Internet or PC-based shared virtual worlds. Project oriented.

DIG 4716L AS-DIG 3(0,3)  Internet Interaction: PR: DIG 2000 or CJS 3175 and a minimum grade of "B" (3.0) or better in DIG 3001 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying aesthetic and scientific principles of user interface design. Project oriented.

DIG 4770 AS-CSC 3(3,0)  Building Virtual Worlds: PR: COP 3530C or C.I. Design and construction of software for networked interactive learning environments, entertainment and communication systems. Tools for enabling dramatic, artistic and technical creativity. Project oriented.

DIG 4780 AS-DIG 3(3,0)  Modeling for Realtime Graphics: PR: DIG 4770, GRA 2100C or other computer graphics experience and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Principles of construction of 3D models for realtime applications; use of high performance CAD systems; level of detail management, efficiency vs. visual quality for video games and realtime simulation.

DIG 4921C AS-DIG 3(2,2)  Media for e-Commerce I: PR: DIG 2000 and (COP 2500C or COP 3522C) 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.

DIG 4922 AS-DIG 3(3,0)  Media for E-Commerce II: PR: IDS 4688C and COP 3330 and a minimum grade of "B" (3.0) or better in DIG 3001. Server-side programming in Java to support media-rich E-Commerce applications. Project oriented.

DIG 4931 AS-DIG 3(3,0)  Cultural Byways: PR: DIG 3525, DIG 3001. Development and implementation of historical and cultural video segments for digital media projects.

DIG 5627 AS-DIG 3(3,0)  Autonomous Characters: PR: Graduate status or senior standing or C.I. Interdisciplinary study of autonomous characters-computer programs that mimic human behavior-in games, simulations and interactive literature. Formal models of strategy, tactics and actions.

DIG 5647 AS-DIG 3(3,0)  Science & Technology of Dynamic Media: PR: Graduate status or senior standing or C.I. Graduate level survey of key scientific, technical issues in interactive media. Information algorithms, objects, models. Theories of computer graphics, sound, modeling, simulation, interfaces, artificial intelligence.


EAB 3705C AS-PSYCH 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.

EAB 5765 AS-PSYCH 3(3,0)  Applied Behavior Analysis with Children and Youth: PR: ECP 5557 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.

EAS 3010 ECS-MMAE 1(0,3)  Fundamentals of Aerospace Flight: PR: Sophomore standing. The history of human flight. Introduction to atmospheric flight and space flight. Guest speakers/field trips to aerospace facilities, laboratory experience.

EAS 3101 ECS-MMAE 3(3,0)  Fundamentals of Aerodynamics: PR: EML 3701. Fundamentals of inviscid, incompressible flow over aerodynamic shapes. Theories include potential flow concepts and classical methods as they apply to airfoils, finite wings, etc.

EAS 3530 ECS-MMAE 3(3,0)  

EAS 3800C ECS-MMAE 3(2,3)  

EAS 3810C ECS-MMAE 2(1,3)  
Design of Aerospace Experiments: PR: EAS 3800C and EML 3701. Extension of EAS 3800C. Design of experiments in aeronautical/aerospace systems with emphasis on project team activity. Materials & Supply fee: $45.00

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, nozzles and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies. Viscous boundary layers and applications to the design process.

EAS 4200 ECS-MMAE 3(3,0)  

EAS 4210 ECS-MMAE 3(3,0)  

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.

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.

EAS 4505 ECS-MMAE 3(3,0)  

EAS 4700C ECS-MMAE 3(1,6)  
Aerospace Design I: PR: EAS 3810C. Application of the design process to the team solution of a state-of-the-art problem. Airplanes and space vehicles, systems and devices are considered. Materials & Supply fee: $15.00

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. Materials & Supply fee: $45.00

EAS 5123 ECS-MMAE 3(3,0)  

EAS 5157 ECS-MMAE 3(3,0)  

EAS 5302 ECS-MMAE 3(3,0)  
Direct Energy Conversion: PR: EML 3101 and EML 4142. Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design.

EAS 5315 ECS-MMAE 3(3,0)  
Rocket Propulsion: PR: EAS 4134 or EML 4703. Analysis and performance of rocket engines; selection and thermochemistry of chemical propellants; liquid and solid propellant rockets.

EAS 5407 ECS-MMAE 3(3,0)  
Mechatronic Systems: PR: EML 3804C or EAS 3404C. Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications.

EAS 5535 ECS-MMAE 3(3,0)  
Engineering Design for Aerospace Vehicles: PR: EAS 4700C, EAS 4710C, EAS 4502C, or equivalent. Applications of the design process to aerospace vehicles. A system approach will be emphasized. Techniques for optimizing interface requirements will be covered.

ECM 4504C ECE-ECE 4(3,3)  

ECM 5136 ECE-ECE 3(3,3)  

ECM 5741C ECE-ECE 3(2,3)  
Microcomputer-based Monitoring and Control Systems: PR: EEL 3426C, EEL 4767C or C.I. Machine language programming; software development aids; systems design; interfacing considerations.

ECO 2013 BA-ECON 3(3,0)  
Principles of Macroeconomics: An introduction to macroeconomics, including an overview of the market economy, national income, employment, and price level determination, stabilization policies, and international economics.

ECO 2013H BA-ECON 3(3,0)  
Honors Principles of Economics I: PR: Permission of Honors. Same as ECO 2013 with honors-level content.

ECO 2023 BA-ECON 3(3,0)  
Principles of Microeconomics: The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy.

ECO 2023H BA-ECON 3(3,0)  
Honors Principles of Microeconomics: PR: Permission of Honors. The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Honors content.

ECO 3101 BA-ECON 3(3,0)  

ECO 3203 BA-ECON 3(3,0)  

ECO 3223 BA-ECON 3(3,0)  

ECO 3401 BA-ECON 3(3,0)  

ECO 3401H BA-ECON 3(3,0)  
Honors: Quantitative Business Tools I: PR: Economics major or minor, ECO 2023, MAC 1105, permission of honors. Same as ECO 3401 with Honors level content.

ECO 3402 BA-ECON 3(3,0)  

ECO 3410 BA-ECON 3(3,0)  
Mathematical Economics: PR: ECO 3401 or MAC 2233. Mathematical methods with particular focus on microeconomic foundations of individual decision-making.

ECO 3411 BA-ECON 3(3,0)  
Quantitative Business Tools II: PR: Junior standing and business major or minor, ECO 3101, ECO 3111, and ECO 3401. The use of statistical methods as scientific tools in the analysis of economics and business problems.

ECO 3411H BA-ECON 3(3,0)  
Honors: Quantitative Business Tools II: PR: ECO 3401, permission of honors. Same as ECO 3411 with Honors level content.

ECO 3622 BA-ECON 3(3,0)  

ECO 3703 BA-ECON 3(3,0)  

ECO 3723 BA-ECON 3(3,0)  
International Commercial Policy: PR: ECO 2013 and ECO 2023. Presents the fundamentals of international commercial policy, with special emphasis on U.S. trade policy since WW II.

ECO 4302 BA-ECON 3(3,0)  
Economics of the Environment: PR: ECO 2013, ECO 2023, or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the microeconomic and macroeconomic level.

ECO 4303 BA-ECON 3(3,0)  
### UCF Courses and Descriptions

**ECO 4412** BA-ECON 3(3,0)  

**ECO 4451** BA-ECON 3(3,0)  

**ECO 4504** BA-ECON 3(3,0)  
Economics of the Public Sector: PR: ECO 2023. A study of fiscal institutions and decision-making, and how government budgetary policy (spending, taxing, borrowing, and debt management) affects the economy and its citizens.

**ECO 4701** BA-ECON 3(3,0)  

**ECO 4941** BA-ECON 3(3,0)  
Economics Internship: PR: Consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U.

**ECO 5005** BA-ECON 3(3,0)  
Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis.

**ECO 5006** BA-ECON 1.5(1.5,0)  

**ECO 5141** BA-ECON 1.5(1.5,0)  
Statistics Foundations: PR: Acceptance to Graduate Study. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference.

**ECO 5415** BA-ECON 3(3,0)  
Statistics for Business and Economics: PR: Acceptance into the graduate program and MAC 2233. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference.


**ECP 3203** Contemporary Labor Economics: PR: ECO 2013 and ECO 2023. The analysis of labor problems and issues in a dynamic contemporary economy through the interaction of the four major institutions: households, firms, government, and unions.


**ECP 4403** BA-ECON 3(3,0)  
Business, Government, and Industrial Organizations: PR: ECO 2013 and ECO 2023. A study of the performance of industries representative of various types of market structure and practices, as well as the public policies affecting these industries.

**ECP 4603** BA-ECON 3(3,0)  
Urban and Regional Economic Problems: PR: ECO 2013 and ECO 2023. Analysis of the location, organization and problems of urban and regional economic activities.

**ECP 4703** BA-ECON 3(3,0)  
Managerial Economics: PR: Junior standing, AGC 2071, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation.

**ECS 4003** BA-ECON 3(3,0)  

**ECS 4013** BA-ECON 3(3,0)  

**ECS 4204** BA-ECON 3(3,0)  

**ECS 4210** BA-ECON 3(3,0)  

**ECS 4231** BA-ECON 3(3,0)  
The Japanese Economy: PR: ECO 2013 or ECO 2023 or ECO 2013H. A study of the rapid economic transformation of the Japanese economy with a special focus on the role of human resource development.

**ECS 4303** BA-ECON 3(3,0)  
Economics of European Integration: PR: ECO 2013 and ECO 2023. Presents the development of the European Community, with emphasis on the characteristics of the Single European Act (EC '92).

**ECS 442H** BA-ECON 3(3,0)  
Honors Economic Development of Mexico and Central America: PR: Permission of Honors and ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA.

**EDE 3942** ED-TLP 3(3,0)  
Internship I (Elementary): PR: EDE 4323, RED 3012, MAE 2901, TSL 4080. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U.

**EDE 4943** ED-TLP 7-12(0,35)  
Internship II (Elementary): PR: EDE 3942. Student teaching in an elementary school under the supervision of a certified classroom teacher. Scheduled concurrent semesters.

**EDE 1075** ED-ES 3(3,0)  
Introduction to Educational Internship: Introduction to educational internship with selected partnership institutions.

**EDE 2005** ED-ES 3(3,0)  
Introduction to Education: A survey course including an orientation to education careers, ethics, and the historical, philosophical and sociological foundations of education. This course has a field component.

**EDF 2283** ED-ES 3(3,0)  
Introduction to Applications of Technology in Education: Classroom applications of instructional media including computers.

**EDF 4124** 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.

**EDF 4282** ED-ERTL 3(3,0)  
Applications of Technology in Education: Classroom applications of instructional media, including computers. Includes experiences with equipment, commercial and teacher-made media, and their uses.

**EDF 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. Graded S/U.

**EDF 4603** ED-ES 3(3,0)  
Analysis of Critical Issues in Education: PR: EDF 4214 or C.I. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact schooling in a democracy.

**EDF 5245** ED-ES 3(3,0)  
Preparation and Management of Classroom Instruction: PR: C.I. Study of strategies for instructional planning and classroom management that result in optimum learning.

**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.

**EDG 1005C** ED-ES 2(1.1)  
Foundations of Leadership: Seminar for LEAD Scholars Program. Seminar for LEAD Scholars in the College of
Education providing a foundation of leadership, scholarship, and service regarding disciplines in the college.

EDG 2701 ED-ES 3(3,0)
Teaching Diverse Populations: An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience.

EDG 4204 ED-ES 3(3,0)

EDG 4941 ED-ES 1-8(0,1-8)
Directed Field Experience: Pr: Approval of Professional Laboratory. Field experience in an appropriate educational setting under the direction of a supervising teacher and/or university supervisor.

EDG 4948 ED-ES 3(3,0)
Service Learning: Pr: 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.

EDG 5745 ED-ES 3(3,0)
Teaching the Non-English Student: Pr: C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language.

EDG 5941 ED-ES 2-8(0,11)
Clinical Practice: Pr: Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher.

EDH 5306 ECS-MMAE 1(1)
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.

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.

ECC 2001 ED-CFCS 3(3,0)
Introduction to Early Childhood Education: An overview of early childhood education and services for young children and their families. Includes historical roots, societal changes, program differentiation and future trends.

ECC 3214 ED-ES 3(3,0)

ECC 3268 ED-CFCS 3(3,0)
Play Development: Explores play development, facilitation, intervention and assessment. Designing play environments is emphasized.

ECC 3301 ED-CFCS 3(3,0)
Active Learning Teaching Strategies: Studies an integrated developmental-interactionist approach to curriculum planning and design. Equipment selection, room arrangements, daily schedules and active learning teaching strategies are emphasized.

ECC 3610 ED-CFCS 3(3,0)
Social and Emotional Development of Young Children: Provides an in-depth understanding of the social and emotional development of the young child. Examines the implications for curriculum development.

ECC 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.

ECC 3940 ED-CFCS 3(0,3)
Integration Internship I: Pr: Senior Status; RED 4311 or RED 3310. Field based placement in which the students will have supervised practice integrating course content areas.

ECC 4271 ED-CFCS 3(3,0)
Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers.

ECC 4402 ED-CFCS 3(3,0)
Cultural and Family Systems: Explores the institution of family in its cultural context as a living dynamic system.

ECC 4510 ED-CFCS 3(3,0)
Infant/Toddler Care and Education: Provides the knowledge and skills that will enable the student to become a competent worker with very young children and their families.

ECC 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.

ECC 4603 ED-CFCS 3(3,0)
Guidance of Young Children: Pr: ECC 3610. Provides students with techniques to guide the behavior of young children.

ECC 4731 ED-CFCS 3(3,0)
Health, Safety, and Nutrition for Young Children: Health and safety issues in early childhood (0-8). Protection from injury and infection; promotion of healthy development, good nutrition, and appropriate health and fitness habits.

ECC 4936 ED-CFCS 2(2,0)

ECC 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.

ECC 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.

ECC 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.

ECC 5208 ED-CFCS 3(3,0)
Creative Activities in Early Childhood: Pr: Regular Certificate or C.I. Organization of instruction and methods for creative activities involving music, art, literature and educational toys; integration of activities, and basic skills curriculum (K-3). Concurrent laboratory experience.

EED 3250 ED-CFCS 3(3,0)
Behavioral Issues of the Emotionally Handicapped: An introduction to functional schema of the field to include behavior management techniques, theories, legal considerations, counseling skills, etiology, prevention and utilization of community services.

EED 4011 ED-CFCS 4(4,0)
Introduction to the Emotionally Disturbed: Pr: Senior standing. Development and practice of appropriate cognitive, affective, and motor strategies for selected categories, levels, and degrees of severity of exceptional population.

EED 4210 ED-CFCS 3(3,0)
Curriculum and Program Adaptation, E.H.: Development of highly specialized curriculum and identification, evaluation, modification, and use of curriculum materials and programs for students with emotional handicaps.

EED 4243 ED-CFCS 3(3,0)
Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation, and evaluation of the IEP, modification of regular educational instructional practices, crisis intervention and prevention.

EED 4244 ED-HSW 2(2,0)
Instructional Strategies and Curriculum for Students with Emotional Handicaps: Pr: EED 4210. Instructional strategies and specialized curriculum for teaching students with emotional handicaps with emphasis on instructional techniques and use of curriculum materials and programs.

EEL 3004 ECS-ECE 3(3,0)
Electrical Networks: Pr: PHY 2049, MAP 2302. Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform. Materials & Supply 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 CpE majors.

EEL 3123C ECS-ECE 4(3,1)

EEL 3306 ECS-ECE 3(3,0)
Semiconductor Devices I: Pr: EEL 3304. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models.

EEL 3307C ECS-ECE 4(3,3)
Electronics I: Pr: EEL 3123C, EEL 3306. Electronic devices, analog electronic circuits, amplifier analysis and design, and frequency effects. Materials & Supply fee: $15.00

EEL 3342C ECS-ECE 3(2,3)
Introduction to Digital Circuits and Systems: Pr: PHY 2049 or C.I. Switching theory and devices. Combinational and sequential logic. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters. Materials & Supply fee: $15.00
EEL 3470    ECS-ECE 3(3,0)  Electromagnetic Fields: PR: EEL 3004. Electric and magnetic fields and electromagnetic waves.

EEL 3520    ECS-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 C/PE majors.


EEL 3557    ECS-ECE 3(3,0)  Linear Control Systems: PR: EEL 3123C. Control theory, transfer function modeling, Nyquist criteria, root locus, Bode plots, and Design of lead and lag compensation.

EEL 3801C    ECS-ECE 3(2,3)  Introduction to Computer Engineering: PR: EGN 3211 or equivalent. CR: EEL 3342C. Introduction to the field of computer engineering. Engineering applications of advanced C-language concepts, C++ topics and applications. Basic computer organization, Assembly language programming Materials & Supply fee: $10.00

EEL 4130    ECS-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.


EEL 4205    ECS-ECE 3(3,0)  Electric Machinery: PR: EEL 3004. Fundamentals of DC and AC electric machines.

EEL 4216    ECS-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.

EEL 4309C    ECS-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; Flipflops and memory cells, comparators and timing circuits: A/D and D/A converters. Materials & Supply fee: $15.00


EEL 4436C    ECS-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. Materials & Supply fee: $15.00

EEL 4440    ECS-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.

EEL 4512C    ECS-ECE 4(3,3)  Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise. Materials & Supply fee: $15.00


EEL 4518    ECS-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.

EEL 4612    ECS-ECE 3(3,0)  Introduction to Modern and Robust Control: PR: EEL 3657. Classical control theory including differential equations and Laplace transform techniques, stability analysis, and classical frequency domain design.

EEL 4635C    ECS-ECE 4(3,3)  Computer Control Systems: PR: EEL 3657. Discrete-time systems, the z-transform, and single loop computer control systems. Digital simulation in the analysis and design of processes with embedded computers. No graduate credit for both EEL 5630 and this course. Materials & Supply fee: $15.00

EEL 4664    ECS-ECE 3(3,0)  Autonomous Robotic Systems: PR: EEL 3657. Robotics with emphasis on kinematics, dynamics, trajectory planning, regulation and tracking, formation control, and cooperative rules and behaviors of robotic vehicles.


EEL 4768C    ECS-ECE 3(3,0)  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. Materials & Supply fee: $30.00


EEL 4783C    ECS-ECE 2(2,3)  Computer-Aided Engineering Design: PR: EEL 4768C. Review of currently available CAD tools for digital hardware and software design applications. Materials & Supply fee: $5.00

EEL 4791    ECS-ECE 3(3,2)  Telemetry and Space Computer Systems: PR: EEL 3552C and EEL 3801C. Telemetry and Space Computer sub-systems are discussed as they are implemented in the space-launch system “inertial upper stages”

EEL 4817H    ECS-ECE 3(3,0)  Honors Current Topics in Machine Learning II: PR: Consent of Honors and EEL 4817H. Research topics in machine learning that are of current interest to the Machine Learning community. Students will be assigned a research project. With Honors content.

EEL 4818H    ECS-ECE 3(3,0)  Honors Current Topics in Machine Learning I: PR: Consent of Honors and EEL 3801C or COP 3223 or STA 3032. Machine learning, ART Neural networks, random neural network, genetic algorithms, decision trees, statistical techniques, and implementation issues. With Honors content.

EEL 4832    ECS-ECE 3(3,0)  Engineering Applications of Computer Methods: PR: MAP 2302, STA 3032, EGN 3425. Engineering applications of numerical methods, including solution of differential equations, simulation, optimization, and multidimensional root-finding, integration and series approximations.

EEL 4851C    ECS-ECE 4(3,3)  Engineering Data Structures: PR: EEL 3801C. Design of data structures and algorithms, with emphasis on performance analysis, memory organization, stacks, queues, linked lists, trees, graphs, searches and sorts. Introduction to object-oriented structures. Materials & Supply fee: $5.00

EEL 4872    ECS-ECE 3(3,0)  Engineering Applications of Intelligent Systems: PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures.

EEL 4882    ECS-ECE 3(3,0)  Engineering Software Systems: PR: EEL 4851C and EEL 4767C. Introduction to operating systems concepts and facilities for engineering applications, including multi-programming, resource allocation and management, systems utilities, and operating system implementation.

EEL 4884C    ECS-ECE 4(3,3)  Engineering Software Design: PR: EEL 4851C. Software systems development life cycle, function and object-oriented methodologies, CASE. Analysis, design, and development of a large software project. Materials & Supply fee: $5.00

EEL 4890    ECS-ECE 3(3,0)  Continuous System Simulation: PR: EGN 3420, EEL 3867. Continuous systems, numerical integration algorithms including single step and multistep methods. Use of a continuous simulation program.

EEL 4914    ECS-ECE 3(2,1)  Senior Design I: PR: EEL 3307C, EEL 3657, and EEL 3552C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, ethics, social impact and engineering organizations are considered.

EEL 4915L    ECS-ECE 3(0,3)  Senior Design II: PR: EEL 4914. Execution of electrical and computer engineering project including complete project design review, construction, testing and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort and final report Materials & Supply fee: $15.00

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.

EEL 5245C    ECS-ECE 3(2,1)  Power Electronics: PR: EEL 4599C. Principles of power systems.
electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cyclo-converters, applications.

EEL 5332C ECS-ECE 3(2,1) Thin Film Technology: PR: EEL 3306 or equivalen. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices. Materials & Supply 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.

EEL 5353 ECS-ECE 3(3,0) Semiconductor Device Modeling and Simulation: PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included.

EEL 5355C ECS-ECE 4(3,3) Fabrication of Solid-State Devices: PR: EEL 3306. Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology. Materials & Supply fee: $45.00


EEL 5378 ECS-ECE 3(3,0) CMOS Analog and Digital Circuit Design: PR: EEL 4309C. Advanced principles and design techniques for CMOS ICs including most recent published results.

EEL 5390 ECS-ECE 3(3,0) Full-Custom VLSI Design: PR: EEL 3422C, EEL 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification.

EEL 5432 ECS-ECE 3(3,0) Satellite Remote Sensing: PR: EEL 3410 or PHY 4324. Fundamentals of satellite remote sensing, orbits and geometry, radiative transfer theory, microwave and infrared sensing techniques, ocean, ice and atmosphere geophysical measurements.

EEL 5434 ECS-ECE 3(3,0) Microwave Circuits and Devices: PR: EEL 4498C or EEL 5555C. Planar transmission lines; passive microwave circuits; active circuit design using Gunn, IMPATT, FETs, RTDs, etc.; microwave integrated circuits.

EEL 5462C ECS-ECE 3(3,1) Antenna Analysis and Design: PR: EEL 3470 or equivalent. Fundamentals of antennas; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas. Materials & Supply fee: $5.00

EEL 5513 ECS-ECE 3(3,0) Optical Signal Processing Applications: PR: EEL 4750. The design and practical implementation of digital signal processing techniques including optical Fourier transform techniques, and some useful applications.

EEL 5517 ECS-ECE 3(3,0) Surface Acoustic Wave Devices and Systems: PR: EEL 3552C. Course discusses SAW technology which includes the physical phenomenon, transducer design and synthesis, filter design and performance parameters. Actual devices and communication systems are presented.

EEL 5542 ECS-ECE 3(3,0) Random Processes I: PR: EEL 3552C and STA 3032. Elements of probability theory, random variables, and stochastic processes.


EEL 5555C ECS-ECE 3(2,2) RF and Microwave Communications: PR: EEL 3555C. Design of linear and non-linear active circuits microstrip amplifier, oscillator, and mixer design and fabrication. Receiver design, noise, familiarization with network and spectrum analyzers. Materials & Supply fee: $30.00

EEL 5562 ECS-ECE 3(3,0) Applied Control Systems: PR: C.I. Designed to develop basic understanding of advanced control methods for non-linear systems described by ordinary and partial differen- tial equations and to expose recent results and ongoing research issues in the area of MEMS.

EEL 55630 ECS-ECE 3(3,0) Digital Control Systems: PR: EEL 3567L. Real-time digital control system analysis and design, Z-transforms, sampling and reconstruction, time and frequency response, stability analysis, digital controller design.

EEL 5704 ECS-ECE 3(3,0) Computer Aided Instructional Design: PR: EEL 4767C. Design, analysis and synthesis of sequential logic circuits and systems. Data path and controller design using a hardware description language.


EEL 5722C ECS-ECE 3(3,1) Field-Programmable Gate Array (FPGA) Design: PR: EEL 3342C or C.I. FPGA, architectures, design flow; applications; logic synthesis; technology mapping; placement; routing; multi-FPGA systems; muti-context; reconfigurable computing; evolvable hardware.


EEL 5771C ECS-ECE 3(2,3) Engineering Applications of Computer Graphics: PR: EGG 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments. Materials & Supply fee: $5.00

EEL 5780 ECS-ECE 3(3,0) Wireless Networks: PR: EEL 4781 or C.I. The wireless networking topics include: cellular networks, multiple access protocols, channel assignment and resource allo- cation, mobility and location management, handoffs, rout- ing, authentication, call admission control and QoS provi- sioning, network layer issues, wireless data networking (WAP, GSM, GPRS, CDMA, WCDMA.)

EEL 5820 ECS-ECE 3(3,0) Image Processing: PR: MAP 2302, EGN 3420, EEL 4790 or C.I. Two-dimensional signal processing techniques; pic- torial image representation; spatial filtering; image enhance- ment and encoding; segmentation and feature extraction; introduction to image understanding techniques.

EEL 5825 ECS-ECE 3(3,0) Pattern Recognition: PR: MAP 2302, EGN 3420. Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum design criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions.

EEL 5860 ECS-ECE 3(3,0) Software Requirements Engineering: PR: Graduate standing or C.I. Excellent oral and written communication skills. Excellent problem solving skills. In-depth study of software requirements engineering within a process centered framework. methods for requirements elicitation, analysis, description, and validation. Formal and informal specification.

EEL 5874 ECS-ECE 3(3,0) Expert Systems and Knowledge Engineering: PR: EEL 4612 or C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented.

EEL 5881 ECS-ECE 3(3,0) Software Engineering I: PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer soft- ware for Engineering applications.

EEL 5891 ECS-ECE 3(3,0) Continuous System Simulation I: PR: EEL 3567L or C.I. Use of state-space techniques, numerical integration, and CSSL programs. Laboratory assignments.

EES 3004 ECS-ECE 3(3,0) Environmental systems: PR: One semester of college level science, prefer Chemistry or Biology. A technical lit- eracy course in environmental systems for wastewater, drinking water, groundwater, soil, and air treatment for non-engineering majors.

EES 4111C ECS-ECE 3(2,3) Biological Process Control: CR: ENG 4561. Engineering design, measurements and analysis of biological systems in environmental engineering for water management, bio-energy products, wastewater treatment, and others. Materials & Supply fee: $45.00

EES 4202C ECS-ECE 3(2,3) Chemical Process Control: PR: ENV 3001. Engineering design, measurements, and analysis of chemical systems in environmental engineering to control treatment processes such as softening, coagulation, precipitation, filtration, neutralization, and others. Materials & Supply fee: $45.00

EES 5605 ECS-ECE 3(3,0) Outdoor Noise Control: PR: C.I. Community noise eval- uation and control, legislative standards, instrumentation and measurement, abatement methods, and noise model- ing.

EET 2025C ECS-ENT 4(3,2) Electrical Circuits: PR: EET 1015C or EET 3065C. Frequency domain and steady state analysis of electric circuits: RLC circuits, timed circuits, resonance and “Q”; filters, magnetically coupled circuits, transformers, 3-phase circuits, power relationships. Materials & Supply fee: $10.00


<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 3716</td>
<td>Network Analysis</td>
<td>3(3,0)</td>
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<tr>
<td></td>
<td>PR: DCAC circuits and Calculus I. Transit analysis of first and second-order circuits, circuit analysis using Laplace Transforms. Transform function, frequency response analysis, and Bode plots. May be repeated for credit.</td>
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<tr>
<td>EET 4158C</td>
<td>Linear Integrated Circuits</td>
<td>3(2,2)</td>
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<tr>
<td></td>
<td>PR: EET 3716, Consent of Coordinator, Applications of operational amplifiers, comparators, phase-locked loops, timers, regulators, other integrated circuits. Includes amplifiers, active filters, oscillators, differentiators and integrators. Materials &amp; Supply fee: $10.00</td>
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<tr>
<td>EET 4329C</td>
<td>Communications Systems</td>
<td>4(3,2)</td>
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</tr>
<tr>
<td></td>
<td>PR: EET 4158C. Electronics Devices Principles and interrelationships of communication system components and circuits. Signals, noise, modulation, demodulation, bandwidth requirements. Transmitters and receivers. Materials &amp; Supply fee: $10.00</td>
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<tr>
<td>EET 4339C</td>
<td>Antennas and Propagation</td>
<td>3(2,2)</td>
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<tr>
<td>EET 4359C</td>
<td>Digital Communications Systems</td>
<td>4(3,2)</td>
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<tr>
<td></td>
<td>PR: EET 4158. Theory and application of techniques utilized in digital data transmission and reception</td>
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<tr>
<td>EET 4389C</td>
<td>Satellite Communication Systems</td>
<td>3(2,2)</td>
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<tr>
<td>EET 445A</td>
<td>Power Systems</td>
<td>3(3,0)</td>
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<tr>
<td></td>
<td>PR: EET 405C or equivalent. Analysis of electrical power systems and energy conversion. 3-phase load, per-unit quantities, circuit constants, rotating machines, 3-phase transformers, transmission lines, power flow, stability and fault calculations.</td>
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<tr>
<td>EET 4732C</td>
<td>Feedback Control Systems</td>
<td>3(3,2)</td>
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<tr>
<td></td>
<td>PR: EET 3716, PHY 2535C. Modeling and analysis of networks and control systems. Stability and compensation considerations, using root locus, Nichols chart and Bode plots. Simulation techniques, system components. Materials &amp; Supply fee: $10.00</td>
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<tr>
<td>EET 4915C</td>
<td>Senior Design Project</td>
<td>3(1,4)</td>
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<td></td>
<td>PR: Electronics Engineering Technology senior entering anticipated graduation semesters or C.I. Individual or group project involving project definition, planning, development, test and evaluation. Progress reports, final oral presentation and written report.</td>
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<tr>
<td>EEX 2010</td>
<td>Introduction to Special Education</td>
<td>3(3,0)</td>
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<tr>
<td></td>
<td>Orientation to the education of children and adolescents with special needs in the schools. The course includes characteristics, trends, mainstreaming, and other issues.</td>
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<tr>
<td>EEX 2310</td>
<td>Exceptional Populations in School and Society</td>
<td>3(3,0)</td>
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<td></td>
<td>Characteristics of exceptionalities in school and society to increase student awareness and comfort levels with individuals with exceptionalities.</td>
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<tr>
<td>EEX 3102</td>
<td>Language Development and Communication Disorders</td>
<td>3(3,0)</td>
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<tr>
<td></td>
<td>PR: Junior standing. Interdisciplinary approach to language development, identification and remediation of communication and language disorders.</td>
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<tr>
<td>EEX 3221</td>
<td>Assessment of Exceptional Students</td>
<td>3(3,0)</td>
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<td></td>
<td>PR: EEX 4054, EEX 3041. Assessment of Exceptional Students: Formal and informal assessment techniques for screening, placement, program planning, program evaluation, and monitoring of progress of exceptional students.</td>
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<tr>
<td>EEX 3241</td>
<td>Methods for Academic Skills for Exceptional Students</td>
<td>3(3,0)</td>
<td></td>
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<tr>
<td></td>
<td>PR: EEX 2010, EEX 3948. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I.</td>
<td></td>
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<tr>
<td>EEX 3243</td>
<td>Techniques for Exceptional Adolescents-Adults</td>
<td>3(3,1)</td>
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<tr>
<td></td>
<td>PR: EEX 3241. A study of strategies, basic and functional content, career and vocational educational, and transition planning for adolescents and adults with special needs.</td>
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<tr>
<td>EEX 3450</td>
<td>Young Children With Special Needs</td>
<td>3(0,3)</td>
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<tr>
<td></td>
<td>PR: EEX 3450. Provides an overview of the unique field of early childhood special education, its mission, and approaches to helping young children and their families.</td>
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<tr>
<td>EEX 3754</td>
<td>Parents as Educators</td>
<td>3(3,0)</td>
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<tr>
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<td>PR: EEX 3754. Parents as advocates for children.</td>
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<td>EEX 3864</td>
<td>Internship I: Education</td>
<td>6(0,16)</td>
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<tr>
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<td>PR: EED 4323, RED 3012, EEX 2010. EEX 3241. Satisfaction completion of the portfolio. Internship assignment 2 days a week under the supervision of a certified education teacher. Graded in elementary, half in secondary. Graded SU.</td>
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<tr>
<td>EEX 3940</td>
<td>Internship I: Exceptional Education</td>
<td>3(3,0)</td>
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<tr>
<td></td>
<td>PR: EED 4323, RED 3012, EEX 2010. Internship assignment 2 days a week under the supervision of a certified classroom teacher.</td>
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<tr>
<td>EEX 4003</td>
<td>Teaching Exceptional Students</td>
<td>3(3,0)</td>
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<tr>
<td>EEX 4054</td>
<td>Application and Theories for Students with Special Needs</td>
<td>2(2,0)</td>
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<td>PR: EEX 4054. Theories and historical foundations for students with specific learning, physical, cognitive, and emotional disabilities.</td>
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<tr>
<td>EEX 4066</td>
<td>Curriculum and Instructional Strategies for Special Needs Students</td>
<td>3(3,0)</td>
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<td></td>
<td>PR: EEX 2010, EEX 4054. Theories and instructional strategies for special needs students.</td>
<td></td>
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<tr>
<td>EEX 601</td>
<td>Introduction to Behavior Management</td>
<td>3(3,0)</td>
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<td>PR: EEX 4601. Study of management techniques based on applied behavioral analysis principles for modifying inappropriate behaviors and maintaining appropriate behaviors of exceptional students.</td>
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<td>EEX 605</td>
<td>Parent Involvement in Education</td>
<td>3(3,0)</td>
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<td>PR: EEX 4751. The course prepares students to successfully interact with and involve parents in their child's education.</td>
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<td>EEX 6753</td>
<td>Parent-professional Collaboration</td>
<td>3(3,0)</td>
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<tr>
<td></td>
<td>PR: EEX 4753. The special education teacher. Half in elementary, half in secondary. Internship I: Exceptional Education: PR: New student status or C.I. Overview of academic and professional requirements in various engineering disciplines. Materials &amp; Supply fee: $5.00</td>
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<tr>
<td>EGM 3601</td>
<td>Solid Mechanics</td>
<td>3(3,0)</td>
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<td></td>
<td>PR: EEX 4900C. Principles of stress, strain, deflection, failure theories; design concepts, application to machines and vehicles.</td>
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<tr>
<td>EGM 1000C</td>
<td>Introduction to the Engineering Profession</td>
<td>1(1,2)</td>
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<tr>
<td></td>
<td>PR: EEX 3450. Introduction to the Engineering Profession: Focus on curriculum planning; developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities.</td>
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<tr>
<td>EGM 1307C</td>
<td>Engineering Concepts and Methods</td>
<td>1(1,2)</td>
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<tr>
<td></td>
<td>PR: EEX 4900C. Principles of stress, strain, deflection, failure theories; design concepts, application to machines and vehicles.</td>
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<tr>
<td>EGM 1346C</td>
<td>Foundations of Leadership</td>
<td>2(1,1)</td>
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<td></td>
<td>PR: EEX 4900C. Principles of stress, strain, deflection, failure theories; design concepts, application to machines and vehicles.</td>
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<tr>
<td>EGM 1111C</td>
<td>Engineering Computer Graphics</td>
<td>2(1,3)</td>
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<td></td>
<td>PR: EEX 4900C. Principles of stress, strain, deflection, failure theories; design concepts, application to machines and vehicles.</td>
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<tr>
<td>EGR 2815C</td>
<td>Space Science and Technology: Past, Present, and Future</td>
<td>3(2,3)</td>
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<tr>
<td></td>
<td>PR: EEX 4900C. Principles of stress, strain, deflection, failure theories; design concepts, application to machines and vehicles.</td>
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<tr>
<td>LEAD 1500C</td>
<td>LEAD Colloquium</td>
<td>3(0,0)</td>
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<tr>
<td></td>
<td>PR: EEX 4900C. Principles of stress, strain, deflection, failure theories; design concepts, application to machines and vehicles.</td>
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</tbody>
</table>
EDG 1005C or HSC 1931C. Provides experiential leadership experience in an appropriate leadership setting under the direction of a university supervisor with the LEAD Scholars Program. May be repeated for credit.

EGN 3211 ECS-ECE 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.

EGN 3310 ECS-CHE 3(3,0) Engineering Analysis-Statics: PR: PHY 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures.

EGN 3310H ECS-CHE 3(3,0) Engineering Analysis-Statics (Honors): PR: Permission of Honors and PHY 2048; CR: MAC 2312 or MAC 2282. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit.

EGN 3321 ECS-MMAE 3(3,0) Engineering Analysis-Dynamics: PR: EGN 3310; CR: MAC 2313. Kinematics and kinetics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum.

EGN 3321H ECS-CHE 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


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 and electrical properties, materials characterization techniques.

EGN 3373 ECS-ECE 3(3,0) Principles of Electrical Engineering: PR: PHY 2049; CR: MAP 2302.Fundamentals of electrical circuits and analysis; fundamentals of electronics and AC power systems, transformers, electromechanics and rotating machines.


EGN 3420 ECS-ECE 3(3,0) Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting.


EGN 3704 ECS-CHE 3(3,0) Engineering and the Environment: PR: CHS 1440 and MAC 2312. Process engineering for air, energy, water, and land environment and the role of engineering in control of these environments.

EGN 3843 ECS-ECS 3(3,0) Systems Modeling: PR: CGS 1060C or equivalent. Representation of man/machine systems through analytic and computer-based models. Case studies in the analysis and improvement of systems in industry, education, and government.

EGN 4412C ECS-MMAE 3(3,0) Interdisciplinary Design I: PR: Industrial: EIN 4364C; Comp and Elec: EEL 3377C; EEL 3657; EEL 3550C; EEL 3801C; Aero: EAS 3810C; CR: EML 4102C, EAS 3404C; Comp Sci: COT 3960, COMP 303C; Mech: EML 3500, EML 3701; EML 3303C, CR: EML 4132C, EML 3804C. Application of the design process for interdisciplinary students to solve state-of-the-art engineering problems by system analysis, design, integration, manufacture and testing methods.

EGN 4413C ECS-MMAE 3(3,0) Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I may be repeated for credit.

EGN 4624 ECS-IEMS 3(3,0) Engineering Administration: PR: Senior standing. Engineering organization and administration; delegation of authority and responsibility; effective use of resources; project management; R and D planning; ethics in professional practice.

EGN 5720 ECS-IEMS 3(3,0) Chemical Engineering: PR: Permission of Honors and PHY 2048; CR: MAC 2302. Process engineering for air, energy, water, and land environment and the role of engineering in control of these environments.

EGN 4706C ECS-MMAE 3(3,0) Small Satellite Payloads and Integration: PR: EML 3303 OR EAS 3800 OR EEL 3801 OR ESI 4523. Evaluate overall impact of integration and design concepts on various satellite component subsystems and their payloads into a small satellite system design leading to a final configuration.

EGN 5707C ECS-ECS 3(3,4) Processing Space-Launched Systems: PR: For ECE: EEL 3552C or EEL 4767C; For IEMS: ESI 4523C; For MAE: EAS 3800C. Assembly and test techniques for preparing and check-out of the space-launched system "Inertial Upper Stage." May be repeated for credit.

EGN 5824 ECS-ENT 3(3,0) Energy and Society: Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions.

EGN 5932 ECS-ECS 3(3,0) Telecommunications: Telecommunications and its role in contemporary local, national, and international society.

EGN 5933 ECS-ECS 1(1,0) Professional Engineering Practice: PR: Senior standing or C.I. Seminars dealing with current and future global issues within the engineering profession.

EGN 5035 ECS-IEMS 3(3,0) Topics in Technological Development: PR: C.I. Selected topics in the technological development of western civilization including the weight-driven clock, steam engine, electric light, etc.

EGN 5720 ECS-IEMS 3(2,3) Internal Combustion Engine Analysis and Optimization: PR: EGN 3343 or EGN 3556 or C.I. Internal combustion engine operating principles. Topics covered include design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models. Materials & Supply fee: $45.00

EGN 5580 ECS-IEMS 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.

EGN 5585C ECS-IEMS 3(2,2) Metrology: PR: EIN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing.

EGN 5585C ECS-IEMS 3(2,1) Prototyping and Product Realization: PR: Basic knowledge and/or experience in CAD/CAM technology or C.I. Product design and development cycle including design for functionality and manufacturability. Fundamentals, applications and practice of rapid prototyping and reverse engineering technologies. Materials & Supply fee: $45.00

EGN 3304 ECS-IEMS 2(2,0) Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility.


EGN 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.

EGN 4116C ECS-IEMS 3(2,2) Systems Analysis and Design: PR: EIN 4364C. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions. Initiation of senior design projects. Materials & Supply fee: $20.00

EGN 4118C ECS-IEMS 3(2,3) Industrial Engineering Applications of Computers: PR: EGC 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. Materials & Supply fee: $20.00

EIN 4212 ECS-IEMS 3(3,0) Safety Engineering and Administration: Analysis of
**UCF Courses and Descriptions**

In today's world, the need for understanding and utilizing the latest in metalworking and emergent technologies is imperative for engineers, scientists, and other professionals providing services to businesses across the world. This course introduces students to the organizational, managerial, and economic aspects of metalworking, including human factors, work design, and safety. It also covers the design and implementation of computer-based systems, such as expert systems, simulation, and manufacturing resource planning (MRP). Materials & Supply fee: $45.00

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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>EIO 4243C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Human Engineering: PR: EIN 3314C; Senior standing. Machine systems; design and conduct of human engineering studies. Materials &amp; Supply fee: $20.00</td>
</tr>
<tr>
<td>EIO 4305C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Industrial Engineering Applications in The Service Industries: PR: EIN 3314C, ESI 4312, ESI 4234 or C.I. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc.</td>
</tr>
<tr>
<td>EIO 4333C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Industrial Control Systems: PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments. Materials &amp; Supply fee: $50.00</td>
</tr>
<tr>
<td>EIO 4364C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Industrial Facilities Planning and Design: PR: EIN 3314C, EIN 3354, EIN 4391C. CR:EIN 4333C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments. Materials &amp; Supply fee: $20.00</td>
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<tr>
<td>EIO 4911C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Manufacturing Engineering: PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. Materials &amp; Supply fee: $20.00</td>
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<tr>
<td>EIO 4400</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Principles of Concurrent Engineering: PR: EGN 3633 or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly.</td>
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<tr>
<td>EIO 4411C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Computer-Aided-Manufacturing: PR: EIN 4391C. Computer-Aided-Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP). Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>EIO 4891C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Industrial Engineering Senior Design Project: PR: EIN 4105C. Senior standing. Capstone design course; application of IEMS techniques to real-world design applications. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>EIO 5108</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>The Environment of Technical Organizations: PR: Graduate status or C.I; EGN 4624 recommended. Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations.</td>
</tr>
<tr>
<td>EIO 5117</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Management Information Systems I: PR: C.I. The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS.</td>
</tr>
<tr>
<td>EIO 5140</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Project Engineering: PR: Graduate standing or C.I. Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control.</td>
</tr>
<tr>
<td>EIO 5248C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Ergonomics: PR: C.I. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipment, and workstations. Materials &amp; Supply fee: $20.00</td>
</tr>
<tr>
<td>EIO 5251</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Human-Computer Interaction: Usability Evaluation: Usability paradigms/ principles: cognitive walkthroughs; heuristic, review-based, model-based, empirical and story-board evaluation; techniques; query techniques; laboratory techniques; and field study approaches.</td>
</tr>
<tr>
<td>EIO 5255C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Interactive Simulation: PR: Graduate standing or C.I. Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment.</td>
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<tr>
<td>EIO 5317</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Training System Design: PR: seniors, post bac or graduate standing or C.I. How human performance deficiencies should be addressed from a systems design point of view. Manpower, personnel, and training considerations will be examined</td>
</tr>
<tr>
<td>EIO 5356</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle.</td>
</tr>
<tr>
<td>EIO 5381</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, produc- tion, distribution, and support.</td>
</tr>
<tr>
<td>EIO 5388</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages.</td>
</tr>
<tr>
<td>EIO 5392C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Manufacturing Systems Engineering: PR: EIN 4391C or C.I. The integration of manufacturing technologies and information processing into an integrated system for controlling the manufacturing enterprise. Materials &amp; Supply fee: $20.00</td>
</tr>
<tr>
<td>EIO 5415C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Tool Engineering and Manufacturing Analysis: PR: EIN 4411C. Tool materials and design, tolerance technology, theory of metal cutting, and machineability.</td>
</tr>
<tr>
<td>EIO 5602C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Expert Systems in Industrial Engineering: Overview of basic concepts, architecture and construction of expert systems in IE. Intelligent simulation training systems, case studies and problems. Laboratory exercises. Materials &amp; Supply fee: $20.00</td>
</tr>
<tr>
<td>EIO 5607C</td>
<td>ECS-IEMS</td>
<td>3</td>
<td>Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4411C or EMI, 4535C; or C.I. Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and program- ming, machine and system control. Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>EIO 5936</td>
<td>ECS-IEMS</td>
<td>1</td>
<td>Seminar in Industrial Engineering: Doctoral Research: PR: C.I. Essential topics for doctoral research including research areas, skills, funding, proposals, ethics, mentors, seminars, societies, conferences, presentations, interview- ing, grants, and publishing.</td>
</tr>
</tbody>
</table>

**ELD 4011** | ED-CFCS | 3       | Intro to Specific Learning Disabilities: Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices. |

**ELD 4242** | ED-CFCS | 3       | Program Planning for Specific Learning Disabilities: PR: Senior standing. Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities. |


**EMA 1002** | ECS-MMAE | 3       | 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. |

**EMA 3000** | ECS-MMAE | 3       | Engineering Polymeric, Ceramic, and Composite Materials: PR: EGN 3365. Structure, properties, processing of engineering polymeric, ceramic, and composite materials. |

**EMA 3012C** | ECS-MMAE | 3       | Experimental Techniques in Mechanics and Materials: PR: EGN 3365. Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treat- ment, mechanical testing (hardness, tensile, impact, etc.) Materials & Supply fee: $45.00 |

**EMA 3124** | ECS-MMAE | 3       | Design and Selection of Materials: PR: EGM 3601, and EGN 3365 or EMA 3706. Relationship between process- ing, structure and properties of various engineering mate- rials and their selection in engineering design. |

**EMA 3706** | ECS-MMAE | 3       | Structure and Properties of Aerospace Materials: PR: CHS 1440 or CHM 2045C and MAC 2282 or MAC 2312. Atomic structure, bonding, crystal structures, solidification, phase transformations, heat treatment, mechanical behav- ior, specific aerospace materials, materials design |


**EMA 4103** | ECS-ENT | 3       | Space Environment Technology: PR: MAC 2525, PHY 2052C. The space environment and how it affects manu- facturing of space elements to withstand the harsh space environment. |


EM4503 ECG-MMAE 3(3,0) Materials Characterization Techniques: PR: EGA 3012C, and EGC 3365 or EMA 3706. Theory and practice of commonly used techniques for characterization of crystal structure, microstructure and chemistry.

EM4506 ECG-MMAE 3(3,0) Emerging Materials: PR: EGC 3365 or EMA 3706. Structure, properties and processing of modern emerging materials.


EM4701C ECG-MMAE 3(2,4) Materials Performance in Space Applications: PR: EGC 3365. Laboratory failure analysis of materials within space-related environments.

EM5060 ECG-MMAE 3(3,0) Polymer Science and Engineering: PR: EGC 3365. Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications.


EM5106 ECG-MMAE 3(3,0) Metallurgical Thermodynamics: PR: EGC 3365. Laws of thermodynamics, phase equilibrium, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams.

EM5108 ECG-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 spectroscopies utilizing electron, ion and photon probes.

EM5140 ECG-MMAE 3(3,0) Introduction to Ceramic Materials: PR: EGC 3365. Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications.


EM5504 ECG-MMAE 3(2,2) Modern Characterization of Materials: PR: EGA 5104 or C.I. Techniques and operation of instrumentation (light, scanning, transmission, and auger microscopy) for the characterization of structure, defects, composition, and surfaces.
EML 3804C ECS-MMAE 3(2,3) Digital Control in Mechatronics: PR: EML 4312C. Discrete microprocessor control of mechatronics dynamic systems using state-space representation. Digital controllers: Design for mechatronic applications Materials & Supply fee: $15.00

EML 4005 ECS-MMAE 3(3,0) Design in Nature and Engineering: PR: EGN 3343 and EGM 3601. Design for function and invention, in both engineering and nature: economy, form, beauty, energy, mechanics, structure, evolution in nature.


EML 4260 ECS-MMAE 3(3,0) Dynamics of Machinery: PR: EML 3262C and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects; balancing of rotating and reciprocating masses; cam dynamics.

EML 4264 ECS-MMAE 3(3,0) Vehicle Dynamics: PR: EML 3262C and EML 4220. Basic mechanics governing vehicle dynamics, performance and handling; acceleration, braking, ride, cornering, suspension, steering, rollover.

EML 4293 ECS-MMAE 3(3,0) Essentials of Miniature Engineering Systems: PR: Graduate status or C.I. Engineering of miniature mechanical, thermal, energy, and electrical systems, including advantages, microfabrication methods, and future trends.

EML 4304C ECS-MMAE 2(1,3) Thermo-Fluids Measurements: PR: EML 3303C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments. Materials & Supply fee: $45.00

EML 4312C ECS-MMAE 3(2,3) Feedback Control: PR: EML 3321, MAP 2302, EGN 3373 and EML 4220 or EAS 4210. Mathematical modeling of dynamic systems: transient and steady state response; Root Locus and z-transform methods; discrete systems analysis; controller design.

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.

EML 4501C ECS-MMAE 3(1,6) Engineering Design I: PR: EML 3500, EML 3701 and EML 3303C. Application of the design process in the team solution of a state-of-the-art problem. Aerospace, mechanical, thermal, fluido-thermo, or material problems are considered. Materials & Supply fee: $15.00

EML 4502C ECS-MMAE 3(3,0) 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. Materials & Supply fee: $45.00

EML 4535C ECS-MMAE 3(2,3) CAD/CAM: PR: EGN 3343, EML 3003, and EGM 3601; CR EAS 4200 or EML 3500. CAD/CAM/DEM, computer-aided technology. Basic concepts. Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software. Materials & Supply fee: $15.00

EML 4600 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3101 and EML 4142. Heating, ventilation, air-conditioning, and refrigeration principles and systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems.

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.

EML 5025C ECS-MMAE 3(2,2) Engineering Design Practice: PR: C.I. The course is designed to familiarize students with basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software. Materials & Supply fee: $15.00


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.


EML 5211 ECS-MMAE 3(3,0) Continuum Mechanics: PR: EML 3500 or EML 4703 or EAS 4200 or C.I. Introduction to tensors; deformation and strain; stress; balance laws, applications in Newtonian fluid dynamics and isotropic linear elasticity.

EML 5224 ECS-MMAE 3(3,0) Acoustics: PR: EML 4220, CR: EML 5060. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers.

EML 5228C ECS-MMAE 3(3,0) Modal Analysis: PR: EML 3303, EML 4220, and EML 5060. Theoretical basis. Measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures. Modeling.
EML 5587C  ECS-MMAE  3(2,3)
Mechanics of Biostuctures 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.) biostuctures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling.

EML 5588C  ECS-MMAE  3(2,3)
Mechanics of Biostuctures II: PR: EML 5587C. Part II of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostuctures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling.

EML 5605  ECS-MMAE  3(3,0)
Applied HVAC Engineering: PR: EML 4800. Applications of HVAC systems design with the objective of optimizing energy efficiency, humidity control, ventilation and indoor air quality. May be repeated for credit.

EML 5606  ECS-MMAE  3(3,0)
HVAC Systems Engineering: PR: EML 3101, EML 4142, EML 3034. H eating, ventilation, air-conditions and refrigeration principles, system design and analysis. May be repeated for credit.

EML 5713  ECS-MMAE  3(3,0)

EML 5937  ECS-MMAE  1(1,0)
Mechanical, Materials, & Aerospace Engineering Graduate Seminar: MMAE graduate student seminar. Graded S/U.

EMR 4011  ED-CFCS  3(3,0)
Intro to Mental Retardation: Nature and needs of mentally handicapped students with emphasis on etiology, prevention, identification, and application of effective practices and recognition of trends and standards.

EMR 4362  ED-HSW  4(4,0)
Teaching Students with Mental Handicaps: PR: EEX 2010. Relationship between characteristics of students with mental handicaps and specialized instructional materials, strategies and curriculum.

EMR 4372  ED-CFCS  3(3,0)
Curriculum Method and Materials for Retarded Persons: PR: Senior standing. Development of highly specialized techniques, curriculum and materials to be used with students with mental retardation.

ENC 1101  AS-ENG  3(3,0)
Composition I: Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. The "NC" grading policy applies to this course.

ENC 1101H  AS-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 writing topics are based on selected readings and on student experiences. The "NC" grading policy applies to this course. Honors-level content.

ENC 1102  AS-ENG  3(3,0)
Composition II: PR: ENC 1101 with a grade of "C" or better. Focus on extensive research in analytical and argumentative writing based on a variety of readings from the humanities. Emphasis on developing critical thinking and diversity of perspective. The "NC" grading policy applies to this course.

ENC 1102H  AS-ENG  3(3,0)
Honors Freshman Composition II: PR: ENC 1101H with a grade of "C" or better or C.I. and permission of Honors. Same as ENC 1102, with honors-level content. Note on Freshman English Program: ENC 1101 and 1102 must be taken before enrolling in any English course numbered above 1102. The "NC" grading policy applies to this course.

ENC 2127  AS-ENG  3(3,0)
Grammar and Composition: A systematic study of gram- mar and mechanics to improve editing for clarity and accu- racy in writing.

ENC 2210  AS-ENG  3(3,0)
Writing for the Business Professional: PR: ENC 1102. Junior standing or C.I. Emphasis on clear expository writ- ing of memoroanda, reports, and articles in the student's declared field of business.

ENC 2411C  AS-ENG  3(2,1)
Digital Literacy for the Liberal Arts: Designed to help students understand how computer technologies have shaped our culture and ourselves; to become critical consumers of technology; to acquire a critical sensibility regarding the manner in which technology affects and is affected by texts.

ENC 3211  AS-ENG  3(3,0)

ENC 3211H  AS-ENG  3(3,0)
Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, prac- tices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3241  AS-ENG  3(3,0)
Writing for the Technical Professional: PR: ENC 1102. Junior standing, or C.I. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3241H  AS-ENG  3(3,0)
Honors Writing for the Technical Professional: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3250  AS-ENG  3(3,0)
Professional Writing: PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on compo- sition of reports, proposals, letters, and memos.

ENC 3310  AS-ENG  3(3,0)
Magazine Writing I: PR: ENC 1102. Intensive practice in description narration, exposition and argumentation; con- trol of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing.

ENC 3311  AS-ENG  3(3,0)
Advanced Expository Writing: PR: ENC 1102. Practice of expository writing directed to general reader.

ENC 3905  AS-ENG  3(3,0)
Directed experience in Writing: PR: ENC 1102. C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit.

ENC 3942  AS-ENG  3(3,0)
Journal Writing Practicum: An interdisciplinary practicum in journal writing as a literary genre and a means of self-expansion.

ENC 4215  AS-ENG  3(3,0)

ENC 4218  AS-ENG  3(3,0)
Visual Elements in Documentation: PR: ENC 4293. Study and preparation of visuals and graphics in technical writing and documentation; use of computer graphics; slides; transparencies; charts; graphs; drawings. Materials & Supply fee: $10.00

ENC 4262  AS-ENG  3(3,0)
International Technical Communication: PR: ENC 3211 or ENC "3241 or C.I. International issues in the field of tech- nical communication including internationalizing docu- ments, user interface design, international collaboration, and rhetorical and logistical challenges.

ENC 4265  AS-ENG  3(3,0)
Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. This course addresses the special demands of writing for the computer industry.

ENC 4275  AS-ENG  3(3,0)
Writing/Consulting: theory & practice: PR: C.I. Theory and practice of assessing and responding to writing from the standpoint of a collaborator, as opposed to evaluator.

ENC 4280  AS-ENG  3(3,0)

ENC 4290  AS-ENG  3(3,0)
Usability Testing for Technical Communications: PR: ENC 4253 or C.I. Usability theory and techniques for evalu- ation reports, online documentation, and other technical communication genres.

ENC 4293  AS-ENG  3(3,0)

ENC 4294  AS-ENG  3(3,0)
Technical Documentation II: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student's particular field. Should be taken concurrently with ENC 4215. Materials & Supply fee: $10.00

ENC 4295  AS-ENG  3(3,0)
Technical Documentation III: PR: ENC 4294. Designing, writing, and illustrating manuals, e.g., repairs, mainte- nance or users. Project supervised by a member of a stu- dent's major department or technical editor of a corpora- tion. Materials & Supply fee: $10.00

ENC 4312  AS-ENG  3(3,0)
Theory & Practice Persuasive Writing: PR: ENC 1102. A study of the theory and practice of persuasion, including logical emotional and ethical appeals.

ENC 4360  AS-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.

EML 5588C  ECS-MMAE  3(3,0)
Mechanics of Biostuctures II: PR: EML 5587C. Part II of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostuctures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling.
ENC 4414 AS-ENG 3(3,0) Writing and Hypertext: PR: ENC 3211 or ENC 3241. Theories of electronic literacy and information to develop a more critical sensibility regarding hypertext.

ENC 4415 AS-ENG 3(3,0) Digital Rhetorics and The Modern Dialectic: PR: ENC 1102. This online course explores the development of digital rhetoric through a close reading and analysis of formative rhetorical texts, modern American fiction, and films.

ENC 5214 AS-ENG 3(3,0) Proposal Writing and Publication Methods: PR: Graduate status or senior standing or C.I. Theory and practice of production and publication methods for technical writers.

ENC 5216 AS-ENG 3(3,0) Editing: Professional Writing: PR: Graduate status or 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.

ENC 5219 AS-ENG 3(3,0) Graphics in Technical Writing: PR: Graduate status or senior standing or C.I. A study of the creation and editing of graphics in technical documents.

ENC 5225 AS-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.

ENC 5237 AS-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.

ENC 5245 AS-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.

ENC 5256 AS-ENG 3(3,0) Gendered Rhetoric: PR: Graduate status or senior standing or C.I. Questions women's and men's linguistic choices, the influence of medium and discipline of discourse, and consequences of status, power, and oppression.

ENC 5276 AS-ENG 3(3,0) Writing/Consulting: Theory & Practice: PR: Graduate status or senior standing or C.I. The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator).

ENC 5277 AS-ENG 3(3,0) Teaching Writing With Computers: PR: Graduate status or senior standing or C.I. To provide immersion in the theories and practices of writing in electronic spaces including current discourse conventions from speech and print media.

ENC 5291 AS-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.

ENC 5306 AS-ENG 3(3,0) Persuasive Writing: PR: Graduate status or senior standing or C.I. Theory and practice of writing persuasively.

ENC 5335 AS-ENG 3(3,0) Rhetorical Traditions: PR: Graduate status or senior standing or C.I. To provide a foundation for research by familiarizing students with the chronological spectrum practice and theory of rhetoric form classical to contemporary times.

ENC 5337 AS-ENG 3(3,0) Modern Rhetorical Theory: PR: Graduate status or senior standing or C.I. With special attention to the rhetorical relationship, the course studies history and practice of modern rhetorical theory.

ENC 5338 AS-ENG 3(3,0) The Rhetorics of Public Debate: PR: Graduate status or senior standing or C.I. To examine how rhetorical theories further community goals, including activism, political, legislative, and other significant public debates.

ENC 5344 AS-ENG 3(3,0) Proposal Writing: PR: Graduate status or senior standing or C.I. Theory and practice of writing proposals.

ENC 5425 AS-ENG 3(3,0) Hypertext: Theory and Design: PR: Graduate status, post bac, or senior standing, or C.I. Theoretical and practical study of the uses and premises of hypertext.

ENC 5427 AS-ENG 3(3,0) Hypertext: PR: Graduate status or senior standing or C.I. A study of the theory and practice of computer-driven hypertext.

ENC 5705 AS-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.

ENC 5712 AS-ENG 3(3,0) Studies in Literary and Writing: PR: Graduate standing or C.I. To study the theories of cultural and critical literacy, definitions of literacy, and current political issues in literary studies.

ENC 5745 AS-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, GTAs will participate in staff development and individual conferences with their mentors.

ENC 5945 AS-ENG 3(3,0) Community Literacy Practicum: PR: Graduate status or senior standing or C.I. Designed to deepen theoretical understanding of literacy through participation in a community literacy project.

ENG 3010 AS-ENG 3(3,0) Practical Criticism: PR: ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism.

ENG 3014 AS-ENG 3(3,0) Theories and Techniques of Literature Study: PR: ENC 1102. Junior standing, or C.I. Techniques of analysis, theories of interpretation, and application of critical approaches to selected works.

ENG 3073 AS-ENG 3(3,0) Cultural Studies Literature: PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce "cultural studies."

ENG 4114 AS-ENG 3(3,0) Literature and Film: PR: ENC 1102 and ENG 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations.

ENG 5009 AS-ENG 3(3,0) Methods of Bibliography and Research: PR: Graduate status or senior standing or C.I. Bibliographical, literary and systematic approaches to research at the graduate level in language and literature.

ENG 5018 AS-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.

ENL 2012 AS-ENG 3(3,0) English Literature I: PR: ENC 1102. Beowulf to 1798.

ENL 2022 AS-ENG 3(3,0) English Literature II: PR: ENC 1102. From 1798 to 1914.

ENL 3951 AS-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.

ENL 3951H AS-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.


ENL 4220 AS-ENG 3(3,0) English Renaissance Poetry and Prose: PR: ENC 1102 and ENG 3014. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly & others.

ENL 4230 AS-ENG 3(3,0) 18th Century Studies: PR: ENC 1102 and ENG 3014. May be repeated for credit.

ENL 4240 AS-ENG 3(3,0) English Romantic Writers: PR: ENC 1101, ENC 1102 and ENG 3014. Study of English poets and essayists of the romantic period, such as Wordsworth, Coleridge, Hazlitt, Lamb, Byron, Shelley and Keats.

ENL 4253 AS-ENG 3(3,0) The Victorian Age: Poetry: PR: ENC 1102 and ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossettis, and Emily Bronte.

ENL 4262 AS-ENG 3(3,0) Nineteenth Century British Prose: PR: ENC 1102 and ENG 3014. Essays and fiction of the nineteenth century.

ENL 4273 AS-ENG 3(3,0) Modern British Literature: PR: ENC 1102 and ENG 3014. Major writers of modern British literature.

ENL 4311 AS-ENG 3(3,0) Chaucer: PR: ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works.

ENL 4333 AS-ENG 3(3,0) Shakespeare Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of Shakespeare's plays. May be repeated for credit.

ENL 4341 AS-ENG 3(3,0) Milton and His Age: PR: ENC 1102 and ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes.
shorter poems and selected prose.

**ENL 5006**  
AS-ENG 3(3,0)  
British Literature: Medieval to Modern: PR: Graduate status or senior standing or C.I. Survey of British literature from beginnings to present, with instruction in the fundamentals of prose, poetry, and drama. Emphasis on literature's social and historical contexts.

**ENL 5237**  
AS-ENG 3(3,0)  
Eighteenth Century Studies: PR: Graduate status or senior standing or C.I. Reading, analysis, and discussion of literature in English: 1660-1880.

**ENL 5250**  
AS-ENG 3(3,0)  
The Victorian Age: Poetics: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others.

**ENL 5256**  
AS-ENG 3(3,0)  
Victorian Literature: PR: Graduate status or senior standing or C.I. A study of the major prose works and selected poetry of British Victorian writers.

**ENL 5335**  
AS-ENG 3(3,0)  
Studies in Shakespeare: PR: Graduate status or senior standing or C.I. A selection of representative plays, with emphasis on Shakespeare's development as an artist: aesthetics of dramatic literature.

**ENL 5347**  
AS-ENG 3(3,0)  
The Age of Milton: PR: Graduate status or senior standing or C.I. Emphasis on the non-dramatic works of John Milton. Selections from the non-dramatic works of other 17th-century figures.

**ENV 3001**  
ECS-CEE 3(3,0)  
Introduction to Environmental Engineering: PR: CHM 2046 and MAC 2312. Introduction to concepts and terminology of environmental engineering. Stresses material and energy balances. Covers air, water and land pollution. May be repeated for credit.

**ENV 4008C**  
ECS-CEE 3(2,2)  
Environmental Engineering Capstone Design: PR: one or - ENV 4562C, ENV 4300C, ENV 4122C, or CWR 4812C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design.

**ENV 4112C**  
ECS-CEE 3(2,2)  

**ENV 4120**  
ECS-CEE 3(3,0)  
Air Pollution Control: PR: ENV 3001 and CWR 3201. Air resources engineering design, and operation of air pollution control systems.

**ENV 4122C**  
ECS-CEE 3(2,2)  
Air Pollution Control Design: Project course on design of air pollution control systems and equipment. Materials & Supply fee: $15.00.

**ENV 4300C**  
ECS-CEE 3(2,2)  

**ENV 4341**  
ECS-CEE 3(3,0)  
Solid Waste Management: PR: ENV 3001 or C.I. Engineering design, planning, and analysis problems associated with storage, collection, processing and disposal of solid and hazardous wastes.

**ENV 4432**  
ECS-CEE 3(3,0)  
Potable Water Treatment: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of potable water treatment facilities. May be repeated for credit.

**ENV 4531**  
ECS-CEE 3(3,0)  
Wastewater Treatment Processes: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of wastewater treatment facilities. May be repeated for credit.

**ENV 4561**  
ECS-CEE 4(4,0)  

**ENV 4562C**  
ECS-CEE 3(2,2)  

**ENV 4563**  
ECS-CEE 3(3,0)  
Environmental Control Systems: PR: EGN 3343, EGN 3373 and CWR 3201 CR: ENV 4561. Analysis and design of process control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration.

**ENV 5071**  
ECS-CEE 3(3,0)  

**ENV 5116C**  
ECS-CEE 3(2,3)  

**ENV 5334**  
ECS-CEE 3(3,0)  
Characterization of Hazardous Waste Sites: PR: CWR 4101C and ENV 4341 or C.I. Practical and comprehensive methods of hazardous waste site characterization to determine site properties, contamination type, magnitude and risk, and remedial actions.

**ENV 5335**  
ECS-CEE 3(3,0)  
Hazardous Waste Management: PR: ENV 3001 or C.I. Engineering planning and analysis associated with the handling, storage, treatment, transportation, and disposal of hazardous wastes.

**ENV 5410**  
ECS-CEE 3(3,0)  
Drinking Water Treatment: PR: ENV 4561. Drinking water treatment using existing and newly developed processes. Fe, Mn, As, NO3, DBP, SOCs and other contaminants using oxidation, membrane, ion exchange, precipitation, sorption, and other processes.

**ENV 5505**  
ECS-CEE 3(3,0)  
Sludge Management Operations in Environmental Engineering: PR: ENV 4561. Theory and design of sludge management operations and processes in environmental engineering, including stabilization dewatering and ultimate disposal.

**ENV 4004C**  
AS-BIOL 4(2,6)  

**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.

**ESE 3940**  
ED-TLP 3(1-6,3-16)  
Internship I — Secondary: PR: EDG 4323 and C.I. Student teaching in a secondary school under the supervision of a certified classroom teacher.

**ESE 4943**  
ED-TLP 7(1-2,0,35)  
Internship II — Secondary: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars.

**ESE 5214**  
ED-TLP 3(3,0)  

**ESI 4221**  
ECS-IEMS 3(3,0)  

**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.

**ESI 4312**  
ECS-IEMS 3(3,0)  

**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 industrial engineering problems.

**ESI 4523C**  
ECS-IEMS 3(2,3)  
Systems Simulation: PR: STA 3032, EGN 3211, or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used. Materials & Supply fee: $20.00.

**ESI 5219**  
ECS-IEMS 3(3,0)  
Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, nonparametric stats and ANOVA.

**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.

**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 (DOD), software reliability, reliability in design, and electronic systems reliability.

**ESI 5315**  
ECS-IEMS 3(3,0)  
Research Foundations for IE and OR Modeling: PR: MAP 2302, ESI 5219 or equivalent; ESI 4312; and C.I. Research foundations for IE/II modeling, including constructive analysis of published research, methods of proof, research foundations in decision theory, optimization, and related areas.
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ETI 4635 ECS-ENT 3(3,0)  
Technical Administration: PR: ETI 361C. Techniques of applying management principles to professional positions held by Engineering Technologists. Management functions of planning, organizing, motivating, and controlling, production, sales, and service.

ETI 4640 ECS-ENT 3(3,0)  
Operations Management for Technologists: PR: ETI 4635. Scheduling techniques (PERT, CPM), are presented. Time Study Methods, Work Sampling and MTM are covered.

ETI 4661C ECS-ENT 3(2,2)  

ETI 4700 ECS-ENT 3(3,0)  
Occupational Safety: PR: Junior standing. Accident prevention and the operation of an industrial safety program. Basic requirements of the Occupational Safety and Health Act standards.

ETI 4835 ECS-ENT 3(3,0)  
Rocket Propulsion Technology: PR: PHY 2053C, Calculus I, II, CAD. Principles of rocketry; solid, liquid and hybrid rocket stages; specific impulse computations; fuel and thrust computations; nose cone, and nozzle designs; ignition mechanisms.

ETI 4836 ECS-ENT 3(3,0)  
Space Systems Technology: PR: PHY 2053C. Applied space technology, design of space systems, space environment, flight dynamics, atmospheric drag, power supply, communications technology. May be repeated for credit.

ETI 4837C ECS-ENT 3(2,2)  
Technology of Small Space Payloads: PR: ETI 4836 and high level programming language. Principles of technology in the design of small rocket and microsatellite payloads; power requirements; telemetry requirements of data transmission; thermal control; shock and vibration tests. Materials & Supply fee: $34.60

ETI 4838 ECS-ENT 3(3,0)  
Flight Dynamics Technology: PR: PHY 2053C, Calculus I, II, CAD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analysis; orbital maneuvering; atmospheric re-entry; launch windows; rocket apogee and down range computations; wind corrections and launch angles.

ETI 4839 ECS-ENT 3(3,0)  
Space Electro-Optics Technology: PR: PHY 2053C, Calculus I, II, CAD. Engineering aspects of current electro-optics and laser-optics technology in theory and application, including design, system integration, system alignment, system calibration, and testing.

ETM 4220 ECS-ENT 4(4,0)  
Applied Energy Systems: PR: MAC 2253 or MAC 2311; Chemistry, College Physics. Introduction to energy, work, and thermal systems and processes. Applications of heat energy with emphasis on solar energy.

ETM 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.

ETM 4232C ECS-ENT 4(3,2)  
Applied Heat Transfer: PR: ETG 3451 or equivalent, MAC 2523 or MAC 2311. An introduction to the basic concepts and applications of conduction, convection and radiation heat transfer. Basic energy balances and their applications are emphasized. Study state and transient phenomena are evaluated, including numerical solutions.

ETM 4331C ECS-ENT 4(3,2)  
Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311; PHY 2053C or equivalent. An introduction to the basic concepts of hydraulics and hydrodynamics covering fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc.

ETM 4403C ECS-ENT 3(2,2)  
Applied Kinematics: PR: ETG 3451 and Engineering Drawing. Analysis and design of machine elements and mechanisms involving velocities and accelerations of components, linkages, gears, and cams.

ETM 4512C ECS-ENT 3(2,2)  
Applied Design of Machine Elements: PR: ETG 3451, ETG 3530C, and Engineering Drawing. Design of basic machine elements, including cams, gears, bearings, and coupling, taking into account loads, stresses, and strength of materials.

ETM 4755 ECS-ENT 4(4,0)  
Applied Air Conditioning: PR: ETM 4331C. Analysis of body comfort, psychrometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements.

EIH 2000 AS-HIST 3(3,0)  
Western Civilization I: A survey of western civilization from ancient to 1648.

EIH 2000H AS-HIST 3(3,0)  

EIH 2001 AS-HIST 3(3,0)  
Western Civilization II: A survey of western civilization from 1648 to present. May be taken before EIH 2000.

EIH 2001H AS-HIST 3(3,0)  

EIH 3122 AS-HIST 3(3,0)  
Medieval Society and Civilization: PR: EIH 2000 and 2001 or C.I.

EIH 3142 AS-HIST 3(3,0)  
Renaissance and Reformation: PR: EIH 2000 and 2001 or C.I. Influence of Renaissance humanism on arts, letters, and politics; Luther and Protestantism; the Catholic Counter-Reformation and the Thirty Years’ War.

EIH 3235 AS-HIST 3(3,0)  
Romanticism and Realism: PR: EIH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservation; libertarianism, romanticism, republicanism and socialism; urbanization and mass culture; religious decline; Realpolitik, racism, imperialism, and militarism.

EIH 3242 AS-HIST 3(3,0)  
Modern Europe and the First World War: A survey of the impact of the democratic institutions, education, transportation, housing, health, mass communications, entertainment, women, and warfare.

EIH 3281 AS-HIST 3(3,0)  
Second World War and Rebirth of Europe: PR: EIH 2000 and 2001 or C.I. Origins of World War II; Hitler’s “New Order,” and resistance movements; Cold War; de-Stalinization of Russia; Sovietization of East Central Europe; Western reconstruction, and prosperity.

EIH 3315 AS-HIST 3(3,0)  
History of Modern Spain: PR: Modern European History (18th-20th century). The evolution of Modern Spain through its key institutions, cultural as well as social movements, and impact of political and intellectual trends, 1700-Present.

EIH 3413 AS-HIST 3(3,0)  

EIH 3431 AS-HIST 3(3,0)  
History of Modern Italy: PR: EIH 2001. The history of modern Italy from the origins of national unification through the post-World War II era.

EIH 3431H AS-HIST 3(3,0)  
Honors History of Modern Italy: PR: EIH 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.

EIH 3451 AS-HIST 3(3,0)  
History of Modern France: PR: EIH 2001, EIH 3246 or C.I. The course traces the evolution of France through the study of French political thought, institutional development, social movements, and international roles from 1700-present.

EIH 3651 AS-HIST 3(3,0)  
War and Society: Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers; influence of military on governments; and international efforts to preserve peace.

EIH 4284 AS-HIST 3(3,0)  
Fascism and the Totalitarian Dictatorships: PR: EIH 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.

EIH 4400 AS-HIST 3(3,0)  

EIH 4465 AS-HIST 3(3,0)  
Hitler’s Third Reich: PR: EIH 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.

EIH 4500 AS-HIST 3(3,0)  
English History to 1485: PR: EIH 2000 and 2001 or C.I.

EIH 4501 AS-HIST 3(3,0)  
English History 1485-1815: PR: EIH 2000 and 2001 or C.I.

EIH 4502 AS-HIST 3(3,0)  
British History: 1815-Present: PR: EIH 2000 and 2001 or C.I.

EIH 4571 AS-HIST 3(3,0)  
History of Russia to 1801: PR: EIH 2000 and 2001 or C.I. Czar Ivan the Terrible; Mongol Yoke; Development of Muscovite Expansionism and Absolutism; Time of Troubles; Westernization of Russia under Peter I and Catherine; Role of Orthodox Church.

EIH 4574 AS-HIST 3(3,0)  
FIL 1008 AS-FILM 3(3,0) Cinematic Expression/Aesthetics: Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles. Materials & Supply fee: $13.00

FIL 1009 AS-FILM 3(3,0) Cinematic Expression for Majors: PR: FIL 1007 or FIL 1100. Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, and lighting styles.

FIL 1100 AS-FILM 3(3,0) Foundations of Story for Majors: PR: Pending. Film majors or Film minors. Analysis of dramatic and cinematic narrative structures, both plot and character, from a historical and cultural perspective.

FIL 1226 AS-FILM 3(3,0) Film Production Tools: Basic tools of filmmaking, including digital video cameras, 16 mm cameras, basic lighting equipment, non-linear editing equipment, sound recording and mixing, laboratory processing, and digital post-production.

FIL 2107 AS-FILM 3(3,0) Script Analysis: CR: ENC 1101, FIL 1007. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional filmmaking and screenwriting.

FIL 2200 AS-FILM 3(3,0) Cinematography I: PR: Film majors, FIL 2274C, FIL 2220. Concepts and tools of cinematography and lighting. Materials & Supply fee: $45.00

FIL 2220 AS-FILM 3(3,0) Directing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Introduction to processes and techniques of directing.

FIL 2221 AS-FILM 3(3,0) Acting for Film I: PR: BFA Film majors. Acting through use of various acting techniques, developing an ability to direct and work with actors effectively.

FIL 2224C AS-FILM 3(3,0) Foundations of Production: Production techniques for non-majors. Introduction to basic techniques used in filmmaking. Students must supply their own video equipment and editing equipment. Any format is acceptable.

FIL 2274C AS-FILM 3(3,2) Editing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems. Materials & Supply fee: $45.00

FIL 2400 AS-FILM 3(2,2) History of Motion Pictures: The history of motion pictures as art and industry, from 1895 to the present. Materials & Supply fee: $25.00

FIL 2532 AS-FILM 3(3,0) The American Film Artist: The evolution and growth of a film artist, the emergence of a unique personal vision, and its influence on society. May be repeated for credit when content differs. Materials & Supply fee: $10.00

FIL 3006 AS-FILM 3(3,0) Art of the Cinema: An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound. Materials & Supply fee: $25.00

FIL 3102 AS-FILM 3(3,0) Writing for Film and TV: PR: ENC 1102, Junior Standing. Theories and process of screen writing for motion pictures and television. Students learn how to create stories and scripts for the entertainment marketplace.

FIL 3106C AS-FILM 3(2,3) Introduction to Scriptwriting: PR: Film majors only. Rudiments of scriptwriting, including visual storytelling, story structure, character, dialogue, and introduction to scriptwriting software.

FIL 3124 AS-FILM 3(3,0) Short Script I: PR: Film major and FIL 2107. Rudiments of writing the short script. Analysis of script models and examination of differences between long and short forms. Writing scripts for workshops.

FIL 3125 AS-FILM 3(3,0) Short Script II: PR: Film major, FIL 3124. Advanced writing of short scripts in preparation for Capstone 1 and 2 courses.

FIL 3201C AS-FILM 3(2,4) Introduction to Film Production: PR: Film majors, FIL 2107. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production. Materials & Supply fee: $45.00

FIL 3225 AS-FILM 3(3,0) Acting for Film I: PR: BFA Film majors, FIL 2221 or C.I. Characterization and scene study as it applies to working in front of the camera.

FIL 3229 AS-FILM 3(0,3) Film Production Technology Workshop: PR: Restricted to Film majors. Demonstrations and hands-on equipment workshops to understand and operate the tools of the filmmaking process. May be repeated for credit.

FIL 3236C AS-FILM 3(3,6) Advanced Documentary Production: PR: FIL 3300C or FIL 3207. Processes and principles of advanced documentary production to capture reality-based situations. Materials & Supply fee: $14.00

FIL 3252C AS-FILM 3(3,1) Cinematic Expression: PR: FIL 2400. Cinematography using video format; study of fundamentals of motion-picture communication, film structure and storytelling.

FIL 3269 AS-FILM 3(3,0) Cinema Directors: PR: FIL 3505C and Film or Cinema major. Intensive study of the work of selected filmmakers using multiple modes of criticism and author analysis to examine films.

FIL 3286C AS-ART 3(2,4) Introduction to Animation: PR: Animation majors only, FIL 3268C, and a satisfactory portfolio review or C.I. Introductory computer graphic techniques utilizing microcomputer systems. Techniques include basic paint systems, color cycling and 2D animation. Materials & Supply fee: $15.00

FIL 3287C AS-ART 3(2,4) Intermediate Animation: PR: Animation majors only, FIL 3286C, and a satisfactory portfolio review or C.I. Focus on 3D computer modeling and animation systems. Hands-on exercise on the type of high-end animation systems used in the film industry. May be repeated for credit. Materials & Supply fee: $15.00

FIL 3297 AS-FILM 3(3,0) Sound Design I: PR: Film or Digital Media major. Technical aspects of production and post-production sound recording, editing, and mixing.

FIL 3300C AS-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. Materials & Supply fee: $15.00

FIL 3304C AS-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.

FIL 3307 AS-FILM 3(3,0) Docudrama: PR: FIL 2220. Techniques to dramatize real-life events and persons, with emphasis on representation, adaptation and ethics.

FIL 3309 AS-FILM 3(3,1) Women in Film: PR: Junior standing. A critical examination of how cinematic images of women affect cultural perceptions and an overview of historically significant women filmmakers and related sociopolitical issues.

FIL 3401 AS-FILM 3(3,0) Film History I: PR: Film majors and FIL 2107. Examines film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers cinema history from 1895 to 1945.

FIL 3402 AS-FILM 3(3,0) Film History II: PR: Film majors and FIL 3401. Film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers from 1946 to the present.

FIL 3410 AS-ART 3(3,0) History of Animated Films 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.


FIL 3503C AS-FILM 3(3,1) Film Theory and Criticism I: PR: FIL 2107 and Film or Cinema Studies major. Major film theories to the Second World War Period. Materials & Supply fee: $10.00

FIL 3504C AS-FILM 3(3,1) Film Theory and Criticism II: PR: FIL 3503C and Film or Cinema Studies major. Major film theories from the Second World War period to present. Materials & Supply fee: $10.00

FIL 3510 AS-FILM 3(3,0) World Cinema Traditions: PR: Cinema Studies or Film major, FIL 3504C. The relationship among film, history, and culture in selected Asian, African, Latin American, and Middle Eastern countries.

FIL 3511 AS-FILM 3(3,0) French New Wave Cinema: PR: FIL 2400. Post-World War II period of the French cinema, emphasizing the work of Renoir, Bresson, Godard, Rohmer, Resnais, and Rivette.

FIL 3512 AS-FILM 3(3,0) Italian Neo-Realist Cinema: PR: FIL 2400. Post-World War II period of the Italian cinema, with emphasis on the work of Antonioni, Visconti, Pasolini, Fellini, and Rossellini.

FIL 3513 AS-FILM 3(3,0) Latin American Cinema: PR: FIL 3503C and FIL 3504C. Latin American films and film movements, historical and contemporary issues, social, and aesthetic concerns.

FIL 3514 AS-FILM 3(3,0) International Cinema: PR: FIL 2400. Post-World War II period of the international cinema, with emphasis on the
cinemas of Europe and Asia.

FIL 3520 AS-LANG 3(3,0)
Italian Film: This course attempts to stimulate and increase the interest of students in Italian cinema as an art form with the director playing the key role. Films by most outstanding Italian movie directors will be analyzed from a social, economic, and historical point of view.

FIL 3521 AS-LANG 3(3,0)
French Film: The study of French cinema as an art form and the key role of the director. Films are analyzed from structural, social, economical, and historical perspectives with attention to their relationship with French literature. Taught in English.

FIL 3522 AS-LANG 3(3,0)
German Film: PR: C.I. Exploration of the form and context of German film during different time periods in relation to other aspects of culture and to sociopolitical structures at the time.

FIL 3531 AS-FILM 3(3,0)

FIL 3542 AS-FILM 3(3,0)
Cinema Criticism Writing: PR: ENC 1102, FIL 2400, FIL 3401, FIL 3402 and FIL 3503C. Modes of cinema criticism.

FIL 3551 AS-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.

FIL 3625 AS-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.

FIL 3922 AS-FILM 1(1,1)
Film Colloquium: PR: Film majors only. A series of lectures, films and forums designed for students in the film program. The class is team taught by film faculty and guest speakers from the film industry. Course may be repeated. Graded S/U.

FIL 4103 AS-FILM 3(3,0)
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.

FIL 4111C AS-FILM 3(2,3)
Feature/TV Writing I: PR: FIL major and FIL 3124. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting.

FIL 4112C AS-FILM 3(2,3)
Feature/TV Writing II: PR: Film major and FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage.

FIL 4113C AS-FILM 3(2,3)
Interactive Writing I: PR: Junior Standing, Film major, FIL 3124 or Digital Media major. Writing workshop for experienced screenwriters, cold readings, preparing calling card script, marketing scripts and funding sources.

FIL 4114C AS-FILM 3(3,2)
Interactive Writing II: PR: Film major and FIL 4113C. Advanced writing and development of short interactive narratives as well as examination of non-traditional structures as applied to interactive writing.

FIL 4127C AS-FILM 3(2,2)
Motion Picture Genre: PR: FIL 2400. Analysis and evaluation of films, including their major genres, directors, styles, and periods. Materials & Supply fee: $10.00

FIL 4202C AS-FILM 3(2,4)
Intermediate Film Production: PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking. Materials & Supply fee: $45.00

FIL 4203C AS-FILM 3(3,2)
Capstone I: PR: FIL 4133C, FIL 3825 or FIL 4228. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. Graded S/U. Materials & Supply fee: $45.00

FIL 4207 AS-FILM 3(3,0)
Episodic Production: PR: Film or Animation Majors. Episodic film production techniques.

FIL 4208C AS-FILM 3(3,1)
Directing II: PR: Film major and FIL 2220. Principles and practice in directing narrative and/or documentary motion pictures. Materials & Supply fee: $45.00

FIL 4210C AS-FILM 3(2,4)
Cinematography: PR: Film major, FIL 3201C, FIL 2200. Advanced principles and practices of cinematography. Materials & Supply fee: $45.00

FIL 4211C AS-FILM 3(1,3)
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. Materials & Supply fee: $45.00

FIL 4212C AS-FILM 3(3,0)
Sound Design II: PR: FIL 3297, Film or Digital Media major. To provide both professional skills and attitudes and to create an understanding of how production mixers bring the director’s vision to the screen.

FIL 4213 AS-FILM 3(3,0)
Sound Design III: PR: FIL 4212C. Advanced aspects of sound mixing and sound editing using advanced protocols and digital format.

FIL 4223 AS-FILM 3(3,0)
Design for Film: PR: Film major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction.

FIL 4228 AS-FILM 3(3,0)
Directing III: PR: Film major, FIL 2200 and FIL 4208C. Advanced processes and techniques of directing. Materials & Supply fee: $45.00

FIL 4262C AS-FILM 4(3,0)
Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation. Materials & Supply fee: $20.00

FIL 4280 AS-DIG 3(3,0)
Animated Film-History for non film majors: PR: FIL 3410. Evolution of animation since World War II.

FIL 4284C AS-FILM 3(3,1)
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. Materials & Supply fee: $45.00

FIL 4288C AS-ART 3(2,4)
Advanced Animation: PR: Animation majors only. FIL 3206C, 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. Materials & Supply fee: $15.00

FIL 4289C AS-ART 3(2,4)
Animation Workshop: PR: Animation majors only. FIL 3206C, FIL 3287C, FIL 4288C, and a satisfactory portfolio review or C.I. A production level course in computer animation that emphasizes all phases of the commercial production process, including storyboard, budgets, client relations, and post-production. May be repeated for credit. Materials & Supply fee: $15.00

FIL 4294C AS-FILM 3(3,2)
Editing II: PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing. Materials & Supply fee: $45.00

FIL 4301C AS-FILM 3(1,3)
Documentary Workshop I: PR: FIL 3304C. Socially significant documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media.

FIL 4302C AS-FILM 3(1,3)
Documentary Workshop II: PR: FIL 4301C. Advanced documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media.

FIL 4411 AS-FILM 3(3,0)
History of Animated Films II: PR: FIL 3410, and Cinema Studies, Art, Animation or Digital Media major. Growth and diversification of American and international animation since 1945.

FIL 4506C AS-FILM 3(2,2)
Genre Writing: PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc.

FIL 4564 AS-FILM 3(3,0)

FIL 4574 AS-FILM 3(3,0)
Images and Text in Context: PR: FIL 2400 or C.I. Moving images, the still image, and text in their cultural contexts.

FIL 4602 AS-FILM 3(3,0)
Film Business: PR: Film major, FIL 4207, FIL 4202C. This is a seminar course taught by a professional in the film industry which deals with issues relating to the organization and production of motion pictures.

FIL 4604 AS-FILM 3(3,0)
The Film Producer: PR: Film major or Cinema Studies major, and FIL 4208C. The role of the producer is examined in the context of theatrical film.

FIL 4607 AS-FILM 3(3,0)
Film Production Management: PR: Film major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement.

FIL 5609 AS-FILM 3(3,0)
Film and Internet Business: PR: Graduate status or senior standing or C.I. Survey of the business of financing and distributing films. Explores various, including feature films, short films, television documents and the Internet.

FIN 2104 BA-FIN 3(3,0)
Personal Finance and Investments: PR: Open to all students (majors, minors, and non-majors). An overview of personal and family financial planning. Topics include...
FIN 3303  BA-FIN  3(3,0)  

FIN 3403  BA-FIN  3(3,0)  
Business Finance: PR: Junior standing and business major or minor, ACG 2021, ACG 2071, ECO 203 and ECO 2023. With the balance sheet as a reference point, this course provides an introduction and overview of the acquisition, financing, and management of business assets.

FIN 3403H  BA-FIN  3(3,0)  
Business Finance - Honors: PR: Finance major, ACG 2021, ACG 2071, ECO 203, ECO 2023 and permission of Honors. Open to University honors students and other students participating in the honors program. Same as FIN 3403 with honors level content.

FIN 3414  BA-FIN  3(3,0)  
Intermediate Corporate Finance: PR: Finance major, FIN 3403. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined.

FIN 3470  BA-FIN  3(3,0)  

FIN 3504  BA-FIN  3(3,0)  

FIN 4313  BA-FIN  3(3,0)  
Management of Financial Institutions: PR: Finance major, FIN 3303 and FIN 3403. Analysis of management policies of financial institutions, including assets liability, and capital management. The economics and regulatory influence on competition is considered.

FIN 4324  BA-FIN  3(3,0)  
Commercial Bank Management: PR: Finance major, FIN 3303. Analysis of the intersections of commercial banking policies and an analysis of current approaches to managing specific bank products.

FIN 4424  BA-FIN  3(3,0)  
Advanced Topics in Financial Management: PR: Finance major, FIN 3414 and FIN 4453. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively.

FIN 4453  BA-FIN  3(3,0)  
Financial Models: PR: Finance major, FIN 3403, FIN 3414, and FIN 3504. Mathematical models applied specifically to financial problems, including those models suitable for representation and solutions on computers.

FIN 4514  BA-FIN  3(3,0)  
Portfolio Analysis and Management: PR: Finance major, FIN 3303 and FIN 3504. Portfolio and capital market theory in the determination of rational investment policies. Risk analysis, portfolio analysis, and evaluation techniques.

FIN 4521C  BA-FIN  4(3,1)  
Applied Portfolio Management I: PR: Finance major, FIN 3403, FIN 3504, and C.I. For UCF Student Managed Portfolio program participants. Provides detailed, rigorous analyses of Equity portfolio management topics, including risk/return, valuation, forecasting, portfolio construction, and performance appraisal.

FIN 4522C  BA-FIN  4(3,1)  
Applied Portfolio Management II: PR: Finance major, FIN 4521C, and CI. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing.

FIN 4533  BA-FIN  3(3,0)  
Financial Derivatives: PR: Finance major, FIN 3303 and FIN 3504. Options, futures, forwards, and other derivative contracts. Investments traded in these markets are examined. Pricing and hedging are considered.

FIN 4604  BA-FIN  3(3,0)  

FIN 4730  BA-FIN  3(3,0)  
Senior Financial Consulting I: PR: Finance major, FIN 3403, FIN 3503. CR: FIN 3414, FIN 4453. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design and consulting in projects for major corporations. Part 1 of a two course sequence. Students must register for both semesters.

FIN 4731  BA-FIN  3(3,0)  
Senior Financial Consulting II: PR: Finance major, FIN 4730. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design, and consulting in projects for major corporations. Part 2 of the two semester course sequence. Students must register for both semesters.

FIN 4941  BA-FIN  3(0,3)  
Finance Internship: PR: Finance or Real Estate major, minimum overall GPA of 2.75, consent of department chair. Supervised finance or real estate work experience in a pre-approved sponsoring organization. See department for information and application. Graded S/U.

FIN 5405  BA-FIN  3(3,0)  
Financial Concepts: PR: Acceptance into the graduate program, ACG 5005 and ECO 5005 and ECO 5415 or equivalents. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

FIN 5407  BA-FIN  1.5(1,5)  
Financial Foundations: PR: Graduate standing or C.I. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

FLE 3160  ED-TLP  3(3,0)  
Education and Culture/Language Diversity: PR: Admission to major, overall 2.5 GPA, 3.0 GPA in major, and C.I. A cross-cultural field experience which includes cultural and language immersion. Theoretical and applied knowledge of culture and language diversity

FLE 4290  ED-TLP  2(2,0)  
Technology in the Foreign Language Classroom: PR: EME 2400, EDG 4323. Applications of technology in the foreign language classroom including use of the Web, e-mail, chat, electronic portfolios, electronic curriculum planning tools, and software. May be repeated for credit.

FLE 4314  ED-TLP  3(3,0)  
Foreign Language Teaching in Elementary Schools: Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

FLE 4333  ED-TLP  3(3,0)  
Foreign Language Teaching in the Secondary School: PR: EDG 4323, proficiency in the target language and English. Methods of teaching foreign languages at the secondary level within a communicative framework. Current instructional techniques in listening, speaking, reading, and writing skills, testing, error correction. May be repeated for credit.

FLE 533S  ED-TLP  3(3,0)  
Foreign Language Methods at the Elementary Level: PR: C.I. or FLE 4333 or FLE 5870, EDG 4323 or EDG 6236, and fluency in target language and English. Methods of planning and teaching foreign language at the elementary level. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom. May be repeated for credit.

FLE 5870  AS-LANG  3(3,0)  
Methods of Teaching Foreign Languages: PR: Graduate status or senior standing or C.I. This course introduces prominent theories and applied research in the field of second language acquisition. It also offers guidance in the practical matters of teaching foreign languages at university and community college levels.

FLE 5875  AS-LANG  3(3,0)  
Computer Applications in Teaching Foreign Languages: PR: Graduate status or senior standing or C.I. Survey, analysis, and evaluation of computer software and Internet materials for teaching foreign languages.

FOL 3730  AS-LANG  3(3,0)  
Romance Philology: The study of the major Romance Languages and their origins as they developed from Classical and Medieval Latin to their linguistic influences such as Arabic and Provençal.

FRE 1005  AS-LANG  1(1,0)  
French Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, French songs, and opera libretti.

FRE 1120  AS-LANG  4(4,1)  
Elementary French Language and Civilization I: PR: One year of French. Introduces the student to French culture through the major language skills: listening, speaking, reading, and writing. Open only to students with experience in the language.

FRE 1121  AS-LANG  4(4,1)  
Elementary French Language and Civilization II: PR: FRE 1120 or equivalent. Continuation of FRE 1120.

FRE 2200  AS-LANG  3(3,1)  
Intermediate French Language and Civilization I: PR: FRE 1120 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

FRE 2201  AS-LANG  3(3,1)  
Intermediate French Language and Civilization II: PR: FRE 2200 or equivalent. Continuation of FRE 2200 with emphasis on French civilization.

FRE 2240  AS-LANG  3(3,0)  
Intensive French Conversation: PR: One year of French or equivalent. Practical use of the language, leading toward fluency and correctness in speaking.

FRE 2270  AS-LANG  8(16,10)  

FRE 3300  AS-LANG  3(3,0)  
French Grammar: PR: FRE 2201 or equivalent. An in-depth review of the structures of French for students who
intend to take French literature courses.

FRE 3410 AS-LANG 3 (3,0) Advanced Oral French Abroad: PR: FRE 2200, FRE 2201 or equivalent. Designed for students participating in the Study Abroad Program in France. Students will be immersed throughout the term speaking French. May be repeated for credit.

FRE 3420 AS-LANG 3 (3,0) French Composition: PR: FRE 2201 or equivalent. Development of skills in composition.

FRE 3423 AS-LANG 3 (3,0) Advanced French Grammar Abroad: PR: FRE 2200, FRE 2201 or equivalent. Students will be immersed throughout the term applying grammatical concepts as they relate to written expression in order to enhance oral expression. May be repeated for credit.

FRE 3440 AS-LANG 3 (3,0) Business French I: PR: Three semesters of French language. Introduces vocabulary and terminology in various French business activities, as well as standards, procedures, and practices of the French business world.

FRE 3441 AS-LANG 3 (3,0) Business French II: PR: FRE 3440 or C.I. Introduction to French business language and practices.

FRE 3760 AS-LANG 3 (3,0) Advanced French Oral Communication: PR: FRE 2201 or equivalent. Vocabulary building with systematic training in diction and pronunciation. Emphasis on oral presentations as well as production and delivery of real-life dialogues.

FRE 3780 AS-LANG 3 (3,0) French Phonetics and Diction: French phonology, with emphasis on phonetic groupings.

FRE 3955 AS-LANG 6 (6,0) Study Abroad in the Caribbean: PR: FRE 2201 or equivalent. Travel through Caribbean islands, studying the diversity within the Creole cultures. May be repeated for credit.

FRE 4421 AS-LANG 3 (3,0) Advanced French Conversation: PR: FRE 3760. Advanced conversation on directed topics from various disciplines: literature, art, psychology, philosophy, music, business, and the sciences.

FRE 4422 AS-LANG 3 (3,0) Advanced French Composition: PR: FRE 3420. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories.

FRE 4471 AS-LANG 6 (6,0) Advanced French Cultural Studies Abroad: PR: FRE 2201 or equivalent, or C.I. Students will develop strong conversational skills at the third year level while studying French culture abroad. May be repeated for credit.

FRE 4500 AS-LANG 3 (3,0) French Civilization and Culture: PR: FRE 3420. A survey analyzing development of key elements of French life: its historical, artistic, intellectual, scientific, and spiritual contributions to the world via readings, lectures, films, and other media. Conducted in French.

FRE 4503 AS-LANG 2 (2,0) Quebecois Civilization: PR: 2 years of college level French or equivalent. An introduction to the main epochs and events in the history of the French civilization in North America with particular emphasis on Quebec.

FRE 4782 AS-LANG 2 (2,0) Advanced French Phonetics and Diction: PR: 2 years of college level French or equivalent. Intensive exercises in French phonetics and diction with both prose and poetry with particular emphasis on difficulties for speakers of English.

FRT 4552 AS-LANG 3 (3,0) Structural Analysis of Beckett's Watt: PR: ENC 1102. An intense study of textual criticism and explications and linguistic analysis of literature with the primary focus on the novel. Course will be taught in English.

FRW 3100 AS-LANG 3 (3,0) Survey of French Literature I: PR: FRE 2201 or equivalent. Main literary currents and works from the Middle Ages through the 18th century.

FRW 3101 AS-LANG 3 (3,0) Survey of French Literature II: PR: FRE 2201 or equivalent. Main literary currents and works of the 19th and 20th centuries.

FRW 3370 AS-LANG 3 (3,0) Short Stories of 18th, 19th and 20th Centuries: PR: FRE 2201 or equivalent. Selected readings designed to increase reading speed and develop analytical abilities. Authors include: Voltaire, Maupassant, Flaubert, Camus, and others.

FRW 3740 AS-LANG 3 (3,0) The French Literature of Canada: PR: FRE 2201 or equivalent. A survey of the French literature of Canada from the late 19th century to the present, with particular emphasis on the novel and short story.

FRW 3752 AS-LANG 3 (3,0) French Caribbean Literature: PR: FRE 2201 or equivalent. Literature of the French-speaking Caribbean from colonial times to the present, in French.


FRW 3770 AS-LANG 3 (3,0) Francophone Literature: PR: FRE 2201. The literature of the Francophone world. Students will read, analyze and discuss literary works written in French.

FRW 4281 AS-LANG 3 (3,0) 20th Century French Novels: PR: FRW 3100 or FRW 3101 or equivalent. Contemporary French Novel. Will focus on post-war authors, both traditional and avant-garde, such as Bazin, Beckett, Butt, Camus, Mauriac, Malraux and Sartre.

FRW 4310 AS-LANG 3 (3,0) Seventeenth Century French Theatre: PR: FRW 3100. Corneille, Racine, and Moliere. A study of the lives and principal works of the authors.

FRW 4324 AS-LANG 3 (3,0) 20th Century French Drama: PR: FRW 3100 or FRW 3101 or equivalent, or C.I. Concentration on traditional and avant-garde theater after WWII, such as the works of Beckett, Camus, Claudel, Claudette, Ionesco, and Satre; different literary approaches will also be used.


FRW 4532 AS-LANG 3 (3,0) French Romanticism: PR: FRW 3100. Great poets and dramatists of the Romantic Movement: Hugo, Lamartine, Vigny, Musset, and others.

FRW 4552 AS-LANG 3 (3,0) Nineteenth Century French Literature: PR: FRW 3101. Realism and naturalism.

FRW 4820 AS-LANG 3 (3,0) Stylistics: PR: FRE 3420 or equivalent. An intensive study of textual criticism. An examination of the relationship between language and literature; explications and linguistic analysis of literary texts.

FSS 2221C RCHM-HOS 3 (3,1) Quantity Food Preparation: Basic principles of food and beverage preparation, service, and menu development. Materials & Supply fee: $45.00

FSS 3008 RCHM-HOS 3 (3,0) Culture and Cuisine: PR: FSS 2221C and HFT 3261. The major historical and geographical developments that have affected the creation of the cuisines of the world.

FSS 3124 RCHM-HOS 3 (3,0) Supply and Procurement Management: PR: HFT 1000 and junior standing or C.I. The purchasing procedures, specifications, and controls of food and related products in the hospitality industry. Materials & Supply fee: $45.00

FSS 3232C RCHM-HOS 3 (1,3) Intermediate Techniques of Food Production: PR: HFT 2050. An advanced food preparation course which provides the student the opportunity to develop skills in pantry, garde-manger, garnishing, and convenience foods and services. Laboratory class. Materials & Supply fee: $45.00

FSS 4135 RCHM-HOS 3 (3,0) Corporate Contract and Managed Services Organizations: PR: HFT 3261. The unique characteristics of managed services including contracting, commodity purchasing, pricing, and revenue management.

FSS 4826C RCHM-HOS 3 (3,1) Catering and Banquet Organization: PR: FSS 2221C and junior standing or C.I. Methods and procedures for successful on and off premise catering functions. Emphasis on food and beverage preparation, menu planning, service and sales techniques. Laboratory class. Materials & Supply fee: $45.00

GEA 4206 ECS-CEE 3 (3,0) Physical Geography of North America: Analysis of the North American landscape as affected by climate, vegetation, and geomorphology.

GEB 1091C BA-BUS 2 (1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Business providing a foundation of leadership, scholarship, and service regarding disciplines in the college.

GEB 2011 BA-MAN 3 (3,0) Management: PR: Junior standing. For non-business majors only. The interdisciplinary application of the managerial functions of planning, organizing, leading, and controlling. For Non-Business Major ONLY.

GEB 2350 BA-MAR 3 (3,0) Foundations of Business: Introduction to the U.S. business system and the role it plays in a global economy.

GEB 3031 BA-MAN 6 (6,0) The Cornerstone Course: PR: Junior standing and business major or minor. ACG 2071, ECO 2013, ECO 2023, and GBS 2100. An orientation to opportunities and challenges facing managers in contemporary business organizations. Introduces competencies of team work, communication, creative thinking, and adapting to change.

GEB 3356 BA-FIN 3 (3,0) Introduction to International Business: PR: Junior standing and business major or minor. ECO 2013, ECO
2023, and ACG 2071. Understanding the interdependence of globalized world economy and similarities and dissimilarities between domestic and international business domains.

GEO 3356H BA-FIN 3(3,0) Introduction to International Business - Honors: PR: Junior standing and business major or minor, permission of Honors. ECO 2013, ECO 2073, ACG 2071. Understanding the interdependence of globalized world economy and similarities between domestic and international business domain.

GEO 4111 BA-MAN 3(3,0) New Venture Finance: PR: Finance major, MAN 3025, FIN 3403, and MAR 3023. Provides hands-on processes for developing financial information necessary such as budgets and pro forma financial statements to start up a new venture.

GEB 4117 BA-MAN 3(3,0) Business Plan Preparation: PR: Management major, GEB 4111 and MAN 4802 with a 2.75 or better. Develop a new venture plan evolving from an original concept through a process that incorporates all the elements of a professionally written business proposal.

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.

GEB 4361 BA-FIN 3(3,0) Business in the International Environment: PR: Finance major, FIN 3403, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector.

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.

GER 5941 BA-BUS 1.5(1,5) Professional Business Practicum: PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the MBA program without such experience.

GEB 5954 BA-MAN 3(3,0) Entrepreneurship Field Project: PR: C.I. Technical and business students partner to provide feasibility assessments or business plans related to emerging business opportunities.

GEO 1200 ECS-CCE 3(3,0) Physical Geography: Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution.

GEO 2370 ECS-CCE 3(3,0) Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States.

GEO 3151 AS-LS 3(3,0) GIS for Environmental Studies: PR: CGS 1060C and BSC 201LC, or C.I. Geographic information systems (GIS) for understanding spatial environmental data.

GEO 3151L AS-LS 1(0,2) GIS for Environmental Studies Lab: PR: or CR: GEO 3151. Lab to complement GEO 3151. Practical experience in the use of geographic information systems (GIS).

GEO 3470 AS-POLS 3(3,0) World Political Geography: Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy.

GEO 4131C ECS-CCE 3(2,2) Remote Sensing of the Environment: PR: GEO 1200 or C.I. Interpretation and application of remote sensor imagery to physical, economic, and urban analysis.

GEO 4176C AS-LS 4(2,4) Advanced GIS Applications in Environmental Studies: PR: GEO 3151C. Use of GIS software for environmental applications such as conservation management.

GER 1005 AS-LANG 1(0,1) German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretti.

GER 1120 AS-LANG 4(4,1) Elementary German Language and Civilization I: Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

GER 1121 AS-LANG 4(4,1) Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120.

GER 1130H AS-LANG 4(4,1) Honors Elementary German Language and Civilization I: 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.

GER 1131H AS-LANG 4(4,1) Honors Elementary German Language and Civilization II: PR: GER 1130H or equivalent and permission of Honors. Continuation of GER 1130H, with honors-level content.

GER 2200 AS-LANG 3(3,1) Intermediate German Language and Civilization I: PR: GER 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

GER 2201 AS-LANG 3(3,1) Intermediate German Language and Civilization II: PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization.

GER 2210 AS-LANG 3(3,0) Intensive German Conversation: PR: GER 2211 or C.I. Practical use of the language, leading toward fluency and correctness in speaking.

GER 2240 AS-LANG 3(3,0) German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice.

GER 2270 AS-LANG 6(6,0) Intermediate German Study Abroad: PR: GER 1121 or equivalent. Intermediate German language and culture taught in the native environment.

GER 2271 AS-LANG 2(2,0) Modern German Civilization Abroad I: PR: One year of College-level German. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German.

GER 3100 AS-LANG 3(3,0) Germany - Past to Present: PR: GER 3760 or GER 3420 or equivalent. Cultural development that shaped modern Germany. Students will read and discuss selected texts from different literary periods and view the influences they had on culture and daily life. Course conducted in German.

GER 3272 AS-LANG 2(2,0) Modern German Civilization Abroad II: PR: GER 2201 or equivalent. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German.

GER 3420 AS-LANG 3(3,0) Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition.

GER 3440 AS-LANG 3(3,0) Business German I: PR: GER 2200. Introduction to German business language and practices.

GER 3441 AS-LANG 3(3,0) Business German II: PR: GER 3440. Continuation of Business German I.

GER 3470 AS-LANG 6(6,0) Advanced German Study Abroad: PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment.

GER 3760 AS-LANG 3(3,0) Advanced German Oral Communication: PR: GER 2201 or equivalent. Vocabulary building with systematic training in diction and locution, Speeches and oral presentations as well as production and delivery of real-life dialogues.

GER 3780 AS-LANG 3(3,0) German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation.

GER 4422 AS-LANG 3(3,0) Advanced German Grammar: PR: GER 3760, or any other 3000 level German course. An accelerated grammar course designated for advanced students of the German language.

GER 4510 AS-LANG 3(3,0) Life and Culture in Nazi Germany: PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German.

GER 4520 AS-LANG 3(3,0) Modern Germany: PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to unification and today’s Germany.

GEW 3100 AS-LANG 3(3,0) Survey of German Literature I: PR: GER 2201 or equivalent. Major literary currents and works from the Middle Ages through 19th Century Romanticism.

GEW 3101 AS-LANG 3(3,0) Survey of German Literature II: PR: GER 2201 or equivalent. Major literary currents and works from 19th Century Realism to the present.

GEW 3370 AS-LANG 3(3,0) Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries.

GEW 3480 AS-LANG 3(3,0) German Post-War Literature: PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II.
Intermediate Graphic Design II: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C and a satisfactory portfolio review or C.I. Further development of studio techniques and problems in graphic design with emphasis on digital prepress. Materials & Supply fee: $15.00

GRA 3113C AS-ART 3(2,4) Type & Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and publication. Materials & Supply fee: $15.00


GRA 4119C AS-ART 3(2,4) Packaging Design and Display Systems: PR: Acceptance in Graphic Design Concentration and GRA 3100C. The visual concepts of packaging design and display systems. Exploration of materials, structures, function and semantic aspects of the packaging industry.

GRA 4145C AS-ART 3(2,4) Advanced Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3151C, and a satisfactory portfolio review or C.I. Illustration problems involving the use of advanced level techniques in illustration media. May be repeated for credit. Materials & Supply fee: $15.00

GRA 4196C AS-ART 3(2,4) Advanced Graphic Design: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 3151C or ART 3332C, and a satisfactory portfolio review, or C.I. Practical studio problems, with emphasis on organization of visual design elements. Materials & Supply fee: $15.00

GRA 4197C AS-ART 3(2,4) Special Problems in Graphic Design: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4202C, and a satisfactory portfolio review, or C.I. Advanced problems in visual design and reproduction. May be repeated for credit. Materials & Supply fee: $15.00

GRA 4802C AS-ART 3(2,4) Advanced Computer Graphic Design: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4202C, and a satisfactory portfolio review or C.I. Problems involving the use of advanced computer graphic systems for electronic publication. Materials & Supply fee: $15.00

GRE 1120H AS-LANG 4(4,0) Elementary Greek Language and Civilization I: PR: Permission of Honors. Introduces students to Classical Greek literature and civilization through the study of grammar and syntax and extensive readings of Greek texts.

GRE 1121H AS-LANG 4(4,1) Elementary Greek Language and Civilization II: PR: GRE 1120H and permission of Honors. Continuation of Elementary Greek I.

GRE 2230H AS-LANG 4(4,0) Introduction to Greek Literature: PR: GRE 1121H and permission of Honors. Readings in selected original Greek texts, e.g., Plato's apology. May be repeated for credit.

HAI 1120 AS-LANG 4(4,0) Elementary Haitian Language and Culture I: Introduction to Haitian culture through the major language skills; listening, speaking, reading and writing.


HBR 1120 AS-JUD 4(4,0) Elementary Modern Hebrew Language and Culture I: Designed to initiate the student to the major language skills; listening, speaking, reading and writing, as well as to constitute an introduction to Israeli culture.

HBR 1121 AS-JUD 4(4,0) Elementary Modern Hebrew Language and Culture II: PR: HBR 1120 or equivalent. Continuation of HBR 1120.

HBR 2200 AS-JUD 3(3,0) Intermediate Modern Hebrew I: PR: HBR 1121 or equivalent. Designed to continue the study of Modern Hebrew; increase proficiency in conversation, reading and writing skills, and further expose students to Israeli culture.

HBR 2201 AS-JUD 3(3,0) Intermediate Modern Hebrew II: PR: HBR 2200. Further development of modern Hebrew language skills in listening, speaking, reading, and writing.

HBR 3250 AS-JUD 3(3,0) Biblical Hebrew: PR: HBR 1121 or C.I. Grammatical and syntactical structure of Biblical Hebrew.

HBR 3410 AS-JUD 3(3,0) Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent. Study and practice of contemporary conversational Israeli Hebrew.

HFT 1000 RCHM-HOS 3(0) Introduction to the Hospitality and Tourism Industry: An orientation to the hotel, restaurant, and travel industry, and its history, structure, and operating procedures.

HFT 1350 RCHM-HOS 3(3,0) Career & Promotional Development in Golf: PR: HFT 1357. The developmental sequence of lifelong programs for juniors, women, and seniors; in the golf industry.

HFT 1356 RCHM-HOS 3(3,0) Concepts and Practices of Golf Associations: PR: Admission to Professional Golf Management Program; CR HFT 1000. Philosophies and ideals of the Professional Golfers Association of America and the importance of the rules of golf as related to rules decisions.

HFT 1357 RCHM-HOS 3(3,0) Golf Event Operations: PR: HFT 1356. Develop, plan, and organize golf tournaments of all types.

HFT 2220 RCHM-HOS 3(3,0) Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting.

HFT 2254 RCHM-HOS 3(3,0) Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, housekeeping, engineering, front desk, and guest services.

HFT 2359 RCHM-HOS 3(3,0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 2403</td>
<td>Hospitality Industry Financial Accounting</td>
<td>3(3,0)</td>
<td>Basic understanding of financial accounting and specifically hospitality industry accounting concepts and procedures used in hotels, restaurants and clubs.</td>
</tr>
<tr>
<td>HFT 2500</td>
<td>Hospitality and Tourism Marketing</td>
<td>3(3,0)</td>
<td>The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing.</td>
</tr>
<tr>
<td>HFT 2750</td>
<td>The Event Industry</td>
<td>3(3,0)</td>
<td>Overview of meetings, conventions, special events and exhibitions including the roles of organizations and people involved in the businesses that comprise this industry.</td>
</tr>
<tr>
<td>HFT 3261</td>
<td>Restaurant Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000 and junior standing or C.I. The role of the superintendent of the golf course, including knowledge of golf club design principles.</td>
</tr>
<tr>
<td>HFT 3285</td>
<td>International Restaurant Corporation Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3261. The specific principles of managing a restaurant corporation in the international foodservice marketplace.</td>
</tr>
<tr>
<td>HFT 3313</td>
<td>Hospitality Plant Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000 and junior standing or C.I. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry.</td>
</tr>
<tr>
<td>HFT 3353</td>
<td>Golf Planning &amp; Operations I</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 2359. Customer relations concepts, an effective golf instruction program, and characteristics of effective merchandising &amp; inventory procedures.</td>
</tr>
<tr>
<td>HFT 3354</td>
<td>Agronomy for Golf Course Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3353. Primary roles and responsibilities of the golf course superintendent.</td>
</tr>
<tr>
<td>HFT 3355</td>
<td>Golf Planning &amp; Operations II</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models.</td>
</tr>
<tr>
<td>HFT 3374</td>
<td>Multi Media Applications in Exhibitions</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000, HFT 2750, or C.I. The management of the audio and visual process of a large exhibition.</td>
</tr>
<tr>
<td>HFT 3431</td>
<td>Hospitality Industry Managerial Accounting</td>
<td>3(3,0)</td>
<td>Prerequisites: 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.</td>
</tr>
<tr>
<td>HFT 3444</td>
<td>Hospitality Information Systems</td>
<td>3(3,0)</td>
<td>Prerequisites: CGS 2100C, HFT 2254, and HFT 3261, 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.</td>
</tr>
<tr>
<td>HFT 3471</td>
<td>Hospitality Enterprises I</td>
<td>3(3,0)</td>
<td>Prerequisites: Financial Accounting, Managerial Accounting, Computer Competency, Junior standing, Acquaints students with presentation, interpretation and analysis of hotel financial reports. Presents hotel operations cost controls. Explores hospitality MIS.</td>
</tr>
<tr>
<td>HFT 3511</td>
<td>Convention and Conference Sales</td>
<td>3(3,0)</td>
<td>Prerequisites: 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.</td>
</tr>
<tr>
<td>HFT 3540</td>
<td>Guest Services Management I</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000 and junior standing or C.I. The study of making decisions from the guest's point of view in the hospitality industry.</td>
</tr>
<tr>
<td>HFT 3574</td>
<td>Food Service Marketing Advertising and Promotion Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 2500 and HFT 3261. Covers pricing, promotion, menu and product development.</td>
</tr>
<tr>
<td>HFT 3600</td>
<td>Legal Environment in the Hospitality and Tourism Industry</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000 and HFT 3261. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed.</td>
</tr>
<tr>
<td>HFT 3654</td>
<td>Franchising in the Restaurant Industry</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000 and junior standing or C.I. The management of the audio and visual process of a large exhibition.</td>
</tr>
<tr>
<td>HFT 3700</td>
<td>Tourism Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000 and junior standing or C.I. Examination of major concepts about tourism as an inter-linked industry composed of many sectors within both the private and public sectors.</td>
</tr>
<tr>
<td>HFT 3741</td>
<td>Meeting Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 4752 and HFT 4754. The process of meeting planning, from setting objectives to analyzing the success of the event.</td>
</tr>
<tr>
<td>HFT 3757</td>
<td>Event Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 2500 and HFT 2750, 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. Materials &amp; Supply fee: $37.00.</td>
</tr>
<tr>
<td>HFT 3770</td>
<td>Cruise Line Operations and Management</td>
<td>3(3,0)</td>
<td>Prerequisites: 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.</td>
</tr>
<tr>
<td>HFT 3784</td>
<td>Amusement Technology</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000. 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.</td>
</tr>
<tr>
<td>HFT 3785</td>
<td>Management of Gaming Enterprises</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3261 and junior standing or C.I. Comprehensive analysis 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.</td>
</tr>
<tr>
<td>HFT 3802</td>
<td>Catering Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service. Materials &amp; Supply fee: $45.00.</td>
</tr>
<tr>
<td>HFT 3807</td>
<td>Multi-Unit Food Service Operations</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000 and junior standing or C.I. The strategy and managerial aspects of chain restaurant management, including organization development, brand building, and industry segments.</td>
</tr>
<tr>
<td>HFT 3834</td>
<td>Topics in Restaurant and Foodservice Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3261 and FSS 2221C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry.</td>
</tr>
<tr>
<td>HFT 3868</td>
<td>History and Culture of Wine</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000, HFT 2750, or C.I. The role that wine has played in the history, culture, and religion of diverse civilizations.</td>
</tr>
<tr>
<td>HFT 3933</td>
<td>Distinguished Lectures in Hospitality Management</td>
<td>1(1,0)</td>
<td>Prerequisites: 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.</td>
</tr>
<tr>
<td>HFT 3949</td>
<td>Cooperative Education</td>
<td>1-5(0,1-5)</td>
<td>Prerequisites: Paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major related learning objectives.</td>
</tr>
<tr>
<td>HFT 4250C</td>
<td>Hospitality Operations</td>
<td>3(3,1)</td>
<td>Prerequisites: HFT 1000 and 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.</td>
</tr>
<tr>
<td>HFT 4253</td>
<td>Hotel Operations</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000, HFT 2750, or C.I. The strategy and managerial aspects of chain restaurant management, including organization development, brand building, and industry segments.</td>
</tr>
<tr>
<td>HFT 4256</td>
<td>Restaurant Brand Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3261 and junior standing or C.I. Exploration of the principles of brand management for the corporate restaurant industry.</td>
</tr>
<tr>
<td>HFT 4268</td>
<td>Case Studies in Restaurant Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3261 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and food service management.</td>
</tr>
<tr>
<td>HFT 4269</td>
<td>Case Studies in Multi-Unit Restaurant Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 3261 and junior standing or C.I. Application of case study methodology to advanced topics in chain or multi-unit restaurant and foodservice operations.</td>
</tr>
<tr>
<td>HFT 4274</td>
<td>Vacation Ownership Resort Management</td>
<td>3(3,0)</td>
<td>Prerequisites: HFT 1000, HFT 3273, or C.I. Comprehensive analysis of management challenges and opportunities in the industry.</td>
</tr>
</tbody>
</table>
sis of applied theories, principles, and techniques used in the management of vacation resorts.

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.

HFT 4277 RCHM-HOS 3(3,0)  
Yacht, Country, And City Club Management: PR: HFT 1000 and junior standing or C.I. A study of the history, development, operation and management of Yacht, Country and City Clubs. Emphasis will be placed on operational aspects.

HFT 4281 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.

HFT 4284 RCHM-HOS 3(3,0)  
Training and Employee Performance in the Foodservice Industry: PR: HFT 2220; HFT 3400; HFT 4266; FSS 4330; HFT 4268; HFT 4345; FSS 4312; FSS 4135. Teaching and training methodologies relative to the service positions in a restaurant. Encompasses training techniques, guest interaction, and assessment of service performance.

HFT 4286 RCHM-HOS 3(3,0)  
Hospitality Communications: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Communication exchanges in the hospitality industry for effective presentations, conflict resolution, and report writing. Emphasis on interpersonal skills relative to communication and effective communication in the areas of reading, writing, speaking, and listening.

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.

HFT 4295 RCHM-HOS 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.

HFT 4298 RCHM-HOS 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.

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.

HFT 4358 RCHM-HOS 3(3,0)  
Golf Course Facility Design: PR: HFT 3355. Golf course and golf facility design from a functional perspective and from a perspective of form.

HFT 4375 RCHM-HOS 3(3,0)  
Advanced Trade Show Management: PR: HFT 4754 or C.I. Trade show installation, floor management and dismantling/shipping. Pre-event logistics and on-site management of critical success factors.

HFT 4413 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.

HFT 4425 RCHM-HOS 3(3,0)  
Financial Analysis for Restaurant Managers: PR: HFT 2403, HFT 3431, and HFT 3261. Topics of unit level economics, budgeting, valuation of restaurant enterprises, ownership models, franchising finance, and securing access to capital through debt and equity markets.

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.

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.

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.

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.

HFT 4473 RCHM-HOS 3(3,0)  
Hotel Development Analysis: PR: HFT 3431 and junior standing or C.I. Review of methodological operational, financial, and marketing aspects of analyses for hotel development projects.

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.

HFT 4532 RCHM-HOS 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.

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.

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.

HFT 4722 RCHM-HOS 3(3,0)  
Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations.

HFT 4735 RCHM-HOS 3(3,0)  
Tourism Geography: PR: HFT 3700 and junior standing or C.I. A seminar discussing the main geographical tourism destinations in U.S. and the World.

HFT 4752 RCHM-HOS 3(3,0)  
Guest Services Management II: PR: HFT 3540 or C.I. Using decision theory and analytical techniques to create and maintain quality guest services. The emphasis is on strategic implications of quality service management.

HFT 4753 RCHM-HOS 3(3,0)  
Convention and Conference Services: PR: HFT 3511 and junior standing or C.I. Provides an in-depth understanding of the acquisition and management of services (food and beverage, audio visual, transportation, etc.) integral to effective convention and conference operations.

HFT 4754 RCHM-HOS 3(3,0)  
Exhibit and Trade Show Operations: PR: HFT 2750 and junior standing or C.I. Provides an in-depth study of exhibit and trade show operations. Focuses on both supply and demand pertaining to exhibits and trade shows.

HFT 4755 RCHM-HOS 3(3,0)  
Theme Park and Attraction Management: PR: HFT 1000 and junior standing or C.I. An in-depth study of the theme park and attraction industry, focusing on resources, ride operations, merchandising, food services, and architectural design.

HFT 4758 RCHM-HOS 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 attraction industry, including hands-on situation analysis.

HFT 4759 RCHM-HOS 3(3,0)  
Product Development in Theme Parks and Attractions: PR: HFT 4755 and junior standing or C.I. The strategic management process associated with product development in the theme parks and attraction industry.

HFT 4762 RCHM-HOS 3(3,0)  

HFT 4786 RCHM-HOS 3(3,0)  
Managing the Guest Experience in the Theme Park and Attraction Industry: PR: HFT 4755. The management of guest needs and expectations in theme parks and attractions.

HFT 4787 RCHM-HOS 3(3,0)  
Operational Issues in the Theme Park and Attraction Industry: PR: HFT 4755. Organizational structural and operational culture of theme parks and attractions.

HFT 4795 RCHM-HOS 3(3,0)  
Entertainment Arts and Events: PR: HFT 2750 and HFT 4755 or C.I. A historical perspective of theme park, event, and attraction entertainment. Covers show development, event production, creative processes, casting, costuming, staffing, and evaluation.

HFT 4844 RCHM-HOS 3(3,0)  
Sanitation in the Food Service Industry: PR: HFT 1000 and junior standing or C.I. Causes and prevention of food spoilage and food borne illnesses. Includes National Restaurant Association (NRA) certification.

HFT 4861C RCHM-HOS 3(3,1)  
Beverage Management: PR: Minimum age of 21 by the first day of class and junior standing. The origin production, storing, marketing, and control of beverages in the hospitality industry. Materials & Supply fee: $45.00

HFT 4864 RCHM-HOS 3(3,0)  
### Foundations of Health Information Management (HIM)

**Course Description:**
- Introduction to the principles and mechanics of coding systems for inpatient and outpatient health care settings.
- Focus on the utilization of computerized systems in health care agencies, including procedural applications.
- Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers.

**Prerequisites:**
- HSA 3111
- CGS 2100C

**Credit Hours:**
- 3(3,0)

**Additional Information:**
- Analysis, and conclusions.
- Budgeting and resource allocation related to health care agencies.
- Budgeting and resource allocation related to health care agencies.
- Code names for secondary students and college age peers.

**Prerequisites:**
- HSA 3111, HSA 3170, and HSC 4500. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care.

**Credit Hours:**
- 3(3,0)

### Health Care Automation

**Course Description:**
- Introduction to public history: Graduate status or senior standing or C.I. Course will provide an understanding of the complexities of health care as a societal issue.
- Internship: A one-semester course in which undergraduates gain experience in public history majors explore and gain experience in public history in museums, archives, documentary editing, historical publication, media, historical societies, and govern-ment agencies.

**Prerequisites:**
- HSA 4220, HSA 4180, HSA 4191, and HSC 4500. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care.

**Credit Hours:**
- 3(3,0)

### Health Information Department Management

**Course Description:**
- Introduction to public history: Graduate status or senior standing or C.I. Course will provide an understanding of the complexities of health care as a societal issue.
- Internship: A one-semester course in which undergraduates gain experience in public history majors explore and gain experience in public history in museums, archives, documentary editing, historical publication, media, historical societies, and govern-ment agencies.

**Prerequisites:**
- HSA 4220, HSA 4180, HSA 4191, and HSC 4500. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care.

**Credit Hours:**
- 3(3,0)

### Health Information Management Systems

**Course Description:**
- Introduction to public history: Graduate status or senior standing or C.I. Course will provide an understanding of the complexities of health care as a societal issue.
- Internship: A one-semester course in which undergraduates gain experience in public history majors explore and gain experience in public history in museums, archives, documentary editing, historical publication, media, historical societies, and govern-ment agencies.

**Prerequisites:**
- HSA 3111

**Credit Hours:**
- 3(3,0)
HSC 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 uncertainity. The role of informatics and application of information technology in improving managerial decision making process will be presented.

HSC 5257 HPA-HP 3(3,0) ICD9 Coding for Health Services Administrators: PR: HSC 6636, B.S. in Health related field, or C.I. Emphasis on developing basic skills to facilitate an understanding of the coding process and the compliance issues relevant to the process. May be repeated for credit.

HSC 5258 HPA-HP 3(3,0) CPT Coding for Health Services Administrators: PR: HSC 6636 or C.I., or BS in Health-related field. Emphasis on developing skills to facilitate an understanding of CPT Coding process and the compliance issues relevant to the process.

HSC 193IC HPA-HP 2(1.1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Health & Public Affairs providing a foundation of leadership, scholarship, and service regarding disciplines in the college.

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.

HSC 2100 HPA-HP 3(3,0) US Healthcare: Introduction and Challenges: Healthcare in the US as a dynamic enterprise: the professionals, array of services and the social and economic forces affecting their performance.

HSC 2921 HPA-HP 2(2,0) LEAD Colloquium: PR: Accepted to the LEAD Scholars Program and have completed at least two of the following with a B (3.0) or better: HSC 193IC, EGN 1036C, IDS 1040C, GED 1001C or EDG 1005C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. May be repeated for credit.

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. Materials & Supply fee: $15.00.

HSC 3157 HPA-HP 3(3,0) Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage.

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.

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.

HSC 3559 HPA-COMD 3(3,0) Disabilities in American Society: PR: Junior or senior status. Personal, social, and environmental impediments confronted by persons with disabilities, including communicative disorders. Strategies that promote life satisfaction are also reviewed.

HSC 3593C HPA-HP 3(2,2) HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease. Topics include: epidemiology & immunology; basic facts, prevention; legal, economic, and ethical issues; psychosocial aspects; substance abuse; sexuality and decision-making.

HSC 3640 HPA-HP 3(3,0) Health Law: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4180. Principles of law as applied to the health field, with special reference to health practices.

HSC 4008 HPA-HP 3(3,0) Professional Development in Health Professions: PR: RET 3026 or C.I. Career development planning, professional leadership approaches to problem solving, regulatory and professional requirements, and the impact of disease and technology on the health care industry.

HSC 4148 HPA-HP 2(2,0) Medical Pharmacology I: Drugs in pulmonary diseases; effects on nervous system, neuroeffectors, depressants & stimulants; influence on metabolism and endocines. (MDRV) Bronchodilators, mycotics, etc.

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.

HSC 4243 HPA-HP 3(3,0) Analysis of Instruction in Health Professions: Development of teaching aids, audiovisuals, learning packets. Course development, questioning strategies, evaluation of didactic and clinical performance.

HSC 4500 HPA-HP 3(3,0) Epidemiology: PR: HSA 3111, STA 2041C or STA 2023. A study of the distribution and determination of diseases and injuries in human population.

HSC 4550 HPA-HP 3(3,0) Pathophysiologic Mechanisms: PR: ZOO 3730C and PCB 3703C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state.

HSC 4564 HPA-HP 3(3,0) Health Care Needs of the Elderly: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4180, HSA 4911, HSC 4500. Overview of the physical and emotional needs of the elderly, including the institutional health care available.

HSC 4563 HPA-HP 3(3,0) Health Care Ethics: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4180, HSA 4911, HSC 4500. A survey of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making.

HSC 5317 ED-TLP 3(3,0) Health Techniques: 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.

HSC 5595 HPA-HP 3(3,0) AIDS: A Human Concern: Focus on epidemiology, transmission, prevention, legal and health care issues, economic impact, psychosocial aspects, sexuality, substance abuse, ethics, hotlines, referral services and the decision making process.

HUM 2022 AS-PHIL 3(3,0) Encountering the Humanities: The range of ideas, research methods and approaches to scholarship, critical reflection, and creative work in the humanities.

HUM 2211 AS-PHIL 3(3,0) Humanistic Tradition I: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized.

HUM 2211H AS-PHIL 3(3,0) Honors Humanistic Tradition I: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. Honors content.

HUM 2230 AS-PHIL 3(3,0) Humanistic Tradition II: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized.

HUM 2230H AS-PHIL 3(3,0) Honors Humanistic Tradition II: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. Honors content.

HUM 3251 AS-PHIL 3(3,0) Contemporary Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the 20th century.

HUM 3255 AS-PHIL 3(3,0) Modern Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period.

HUM 3320 AS-PHIL 3(3,0) Contemporary Multicultural Studies: PR: HUM 2230, Junior standing, or C.I. Studies the influence of diverse cultures making up North America in the Information Age, focusing on complete primary sources in philosophy, literature, visual arts and music.

HUM 3401 AS-PHIL 3(3,0) Asian Humanities: PR: HUM 2230 or C.I. An interdisciplinary survey of the cultures of India, China, and Japan, concentrating on their traditional art, literature, religion, philosophy, and music.

HUM 3417 AS-PHIL 3(3,0) Hindu Thought and Culture: PR: HUM 2230, REL 2300, or C.I. A survey of the development of Hindu thought and culture from vedic times to the modern age, with emphasis on religion, literature, philosophy, art and music.

HUM 3419 AS-PHIL 3(3,0) Islamic Thought and Culture: PR: HUM 2230, or REL 2300, or C.I. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship.

HUM 3419H AS-PHIL 3(3,0) Honors Islamic Thought and Culture: PR: HUM 2230, or REL 2300, and Consent of Honors. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. With Honors content.

HUM 3431 AS-PHIL 3(3,0) Ancient Humanities: PR: HUM 2230 or C.I. Development of Ancient Greek thought and culture with emphasis on philosophy, religion, literature and art.
HUM 3435 AS-PHIL 3(3,0)
Medieval Humanities: PR: ENC 1102 or C.I. Development of Medieval thought and culture with emphasis on Philosophy, Religion, Literature and Art.

HUM 3552 AS-PHIL 3(3,0)
Christian Thought: PR: ENC 1102. Christian thought from 4th century to present, concentrating on human nature, social justice, the state, war, and attitudes toward women.

HUM 3553 AS-PHIL 3(3,0)
Moses, Jesus and Muhammad: PR: HUM 2230, REL 2300, or C.I. Deals with the main themes of Judaism, Christianity, and Islam as found in the teachings of Moses, Jesus, and Muhammad.

HUM 3800 AS-PHIL 3(3,0)
Research Methods in Humanities: PR: Junior standing, and Humanities or Philosophy major or C.I. Research skills for the humanities, including methodologies, writing techniques, essay structuring, formatting, and methods for citing references and constructing bibliographies.

HUM 4301 AS-PHIL 3(3,0)
The Classical Ideal: PR: HUM 2211 and HUM 2230 or C.I. The search for order and form in the arts of various times and cultures. Concerns reason, structure, objectivity, harmony. Open to all Juniors and Seniors.

HUM 4303 AS-PHIL 3(3,0)
The Spiritual Ideal: PR: HUM 2211 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest; mystical impulses contrasted to ethos and pathos.

HUM 4330 AS-PHIL 3(3,0)
Performance Theory: PR: Junior standing and HUM 2230 and either PHI 2010, PHI 2011, PHI 2018, or C.I. Traditional and contemporary theories of performance with a focus on linguistic performatives, bodily and virtual performances, self-identity, and the politics of performance.

HUM 4393 AS-PHIL 1(1,0)
Portfolio: PR: Last semester as Humanities major. Presentation of a representative sampling of student's best undergraduate work, with appropriate revisions, including a cover narrative indicating development of humanistic knowledge and skills. Graded S/U.

HUM 4516 AS-PHIL 3(3,0)
Religion and the Arts: PR: One of: HUM 2211, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary.

HUM 4554 AS-PHIL 3(3,0)
Religious Quest and Human Dilemma: PR: ENC 1102 or C.I. Nature of the sacred, death, and future life and how they relate to human existence.

HUM 4903 AS-PHIL 3(3,0)
Senior Research Seminar: PR: Senior standing and Humanities major. Capstone course on research, developing effective oral and written communication skills.

HUM 5802 AS-PHIL 3(3,0)
Applied Contemporary Humanities: PR: HUM 5803, graduate status or senior standing, or C.I. Development of an application research project relevant to contemporary cultural issues, using Humanities theories and methods.

HUM 5803 AS-PHIL 3(3,0)
Theories and Methods of the Humanities: PR: Senior undergraduate standing and at least one of the following: HUM 3251, HUM 3320, or PHI 4808 or Graduate Standing. Approaches, concepts, methods, and theoretical issues in the Humanities with an emphasis on critical analysis of diverse disciplinary and interdisciplinary theories and methods.

HUM 2002 AS-HP 3(3,0)
Modern Concepts in Nutrition: An examination of the eating patterns of today's American people. Topics include: nutrients in our diets, consumer demand in the food industry; fast food outlets, food trends and hunger.

HUM 3011 AS-HP 3(3,0)
Human Nutrition: Essentials of nutrition related to the life cycle, including the physiological, psychosocial, and cultural aspects of nutrition and the inter-relationship with disease are emphasized.

HUM 3013 AS-HP 3(3,0)

HUM 5937 AS-HP 3(3,0)
Nutrition and Exercise Physiology: This course correlates human nutrition with exercise physiology. Nutritional concepts are related to human performance and fitness.

IDS 1040H AS-HC 2(2,1)
Honors Foundation of Leadership: PR: Permission of Honors. An honors symposium that presents academic leaders and their research or artistic achievements. Students are organized in groups to discuss leadership principles and applications. Graded S/U.

IDS 1921H AS-HC 1(2,0)
Honors Symposium: Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts.

IDS 4030H AS-HC 1(0,0)
Honors Windows To The World: PR: Permission of Honors and ID 1921H, enrolled in Accelerated Pre-med Program; or C.I. Students will cultivate an active sense of the liberal arts and sciences as they prepare for prestigious scholarships and graduate school. Graded S/U. May be repeated for credit.

IDS 1040C AS-LS 2(1,1)
Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Arts & Sciences providing a foundation of leadership, scholarship, and service regarding disciplines in the college.

IDS 2041C AS-CAS 2(1,1)
LEAD Colloquium: PR: Must have completed 2 of the following with a grade of B or better: IDS 1040C, GEB 1001C, HSC 1913C, EGN 1036C, EDG 1005, or EDF 1930C. Experiential leadership in an appropriate setting with the LEAD Scholars Program.

IDS 3150 AS-LS 3(3,0)
Foundations of Environmental Studies: PR: Junior standing, complete equivalent of UCF Science and Math GEP. An overview of the approaches taken by different disciplines to address regional, national, and global environmental issues.

IDS 3701C AS-DIG 3(2,2)
Internet Software Design: PR: DIG 2000, COP 2500C, COP 3330 and a minimum grade of "B" (3.0) or better in DIG 3001. Software design for media-rich Internet applications in arts and humanities. User interface, client/server, n-tier architectures, scalability, optimization, streaming, interactive media objects for storytelling and e-commerce.

IDS 4156 AS-LS 3(3,0)
Solving Environmental Problems: PR: IDS 3150, ECO 4302, GEO 3515C, GEO 4176C and PUP 3203, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed.

IDS 4315 AS-POLS 3(3,0)
Global Perspectives: PR: Completion of general education requirements and junior standing or C.I. The historical and contemporary contexts of globalization.

IDS 4703 AS-DIG 3(0,0)
Digital Media Project II: PR: DIG 4254L and a minimum grade of "B" (3.0) or better in DIG 3001. Continuation of IDS 4682.

IDS 4728 AS-DIG 3(3,0)
Unix for Graphics Production: PR: COP 3223 and DIG 3525 or C.I. Unix operating system for the management of complex graphical production processes in animation and film post-production.

IDS 4786C AS-DIG 4(3,3)
Production Software Workshop: PR: COT 3960 and DIG 4204, or C.I. Generating and manipulating digital imagery. Techniques, mechanics, underlying representations and data; introductions to scripting, plug-ins, procedural models.

IDS 5145 ECS-EC 3(3,2)
Interdisciplinary course in simulation: PR: Calculus, matrix algebra, probability & statistics, high level programming language. An interdisciplinary course in simulation with hands-on experience in discrete event modeling, continuous modeling & shared virtual world. May be repeated for credit.

IDS 5171C UCF-IDS 3(2,2)
Introduction to Modeling and Simulation: PR: STA 2023 or equivalent. Introduction to the theory and practice of modeling and simulation with emphasis on multidisciplinary scientific undertakings.

IDS 5179 UCF-IDS 3(3,0)
Quantitative Aspects of Modeling and Simulation: PR: MAC 2241 or equivalent. Introduction to matrix algebra and other discrete mathematics topics for modeling and simulation applications.

IDS 5187 AS-DIG 3(0,0)
Design for Media: PR: Graduate standing or C.I. Theories and practices of interactive design for digital media content.

IDS 5188 AS-DIG 3(3,0)
Digital Media Development: PR: IDS 5187 or C.I. Continuation of IDS 5187. Students will begin developing projects specified by design documents from previous course.

IDS 5189 AS-DIG 3(3,0)
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.

IDS 5190 AS-DIG 3(3,0)
Digital Forensics: PR: CGS 5133 (Computer Forensics I) or C.I. Application of digital scientific techniques to solve information assurance, forensic and legal problems.

IDS 5195C AS-DIG 3(3,2)
INP 3004 AS-PSYCH 3(3,0) Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations.

INP 3141C AS-PSYCH 1-3(0,3-9) Advanced Applied Psychology: PR: PSY 2012 and C.I. Course will explore application of psychological knowledge to clinical, experimental, industrial, or educational settings. Supervised laboratory experience is required. May be repeated for credit. Graded S/U.

INP 3951 AS-PSYCH 3(0,10) Industrial/Organizational Field Work: PR: C.I. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations.

INP 4252 AS-PSYCH 3(3,0) Advanced Industrial Psychology: PR: INP 3004 and PSY 3213C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment.

INP 4313 AS-PSYCH 3(3,0) Organizational Psychology: PR: INP 3004. Analysis of the psychological principles underlying individual and group behavior in an organizational setting. Topics include group dynamics, leadership and participation, interpersonal behavior, and organization development.

INP 5825 AS-PSYCH 3(3,0) Human-computer Interface (HCI) design: A team approach: PR: Graduate status or senior standing or C.I. Interdisciplinary approach to human-computer interface design, including behavior, engineering, computer science, and instructional aspects. Tools and techniques for team development and the evaluation of software for usability

INR 2002 AS-POLS 3(3,0) International Relations-Theory and Practice: Analysis of the fundamental principles and factors affecting interstate relations and their application to contemporary global developments.

INR 3016 AS-POLS 3(3,0) Global Political Issues: PR: POS 2041 or C.I. Current global political topics from political development and income gap to gender issues and environmental challenges.

INR 3253 AS-POLS 3(3,0) International Politics of Africa: PR: Junior standing or C.I. The broad structures and processes of international politics and foreign policy in Africa, with particular attention on U.S.-Africa relations.

INR 4011 AS-POLS 3(3,0) Politics of Globalization: PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization.

INR 4020 AS-POLS 3(3,0) Diplomacy: PR: POS 2041, Junior standing or C.I. Concepts, theories, and methods of contemporary diplomacy: diplomatic processes in the international arena.

INR 4035 AS-POLS 3(3,0) International Political Economy: The international political, economic and social relations of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations.

INR 4060 AS-POLS 3(3,0) Causes of War: PR: POS 2041 or INR 2002 or C.I. The primary theoretical and empirical research explaining militarized interstate conflict.

INR 4064 AS-POLS 3(3,0) Changing Nature of War: PR: POS 2041 or C.I. The changing nature of war in light of significant changes in technology and international politics.

INR 4074 AS-POLS 3(3,0) Immigration Policy: PR: POS 2041, Junior standing or C.I. Analysis of the complex subject of immigration, including U.S. and comparative immigration policy, illegal immigration, alien smuggling, and statelessness and their political/security impact.


INR 4076 AS-POLS 3(3,0) Global Drug Policy: PR: POS 2041, Junior standing or C.I. International drug control issues, policy formulation and enforcement, impact of government and political economic systems on drug policy. Selected Latin American and Third World cases.

INR 4085 AS-POLS 3(3,0) Women, Gender, and Globalization: PR: Junior standing, Feminist and gender perspectives in International Relations, Globalization, and International Political Economy.

INR 4102 AS-POLS 3(3,0) American Foreign Policy: Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world.

INR 4104 AS-POLS 3(3,0) Issues and Cases in American Foreign Policy: PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems or aspects of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, policymaking and decision-making and intelligence.

INR 4114 AS-POLS 3(3,0) American Security Policy: PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control.

INR 4115 AS-POLS 3(3,0) Strategic Weapons and Arms Control: Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation.

INR 4224 AS-POLS 3(3,0) Contemporary International Political History: Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan.

INR 4225 AS-POLS 3(3,0) The Vietnam War: Background of events leading to America's involvement in Indochina, the course of the Vietnam War, and the lessons which that war imparts.

INR 4243 AS-POLS 3(3,0) International Politics of Latin America: Study of contemporary U.S.-Latin American relations, inter-American politics and organization, and the role of Latin America in the world.

INR 4304 AS-POLS 3(3,0) Issues in International Public Policy: PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-making, which influence select international public policy issues.

INR 4335 AS-POLS 3(3,0) Coercion in International Politics: Examination of the role of coercive techniques among states in a nuclear age, ranging from nuclear strategy and deterrence to wars of national liberation and coups.

INR 4350 AS-POLS 3(3,0) Global Environmental Politics: PR: INR 2002 or POS 2041 or C.I. The unique environmental strategies and political issues that occur on the international and global levels.

INR 4351 AS-POLS 3(3,0) International Environmental Law: PR: Junior standing or C.I. Examination of global efforts to establish a treaty regime for environmental protection of earth’s biosphere when challenged by national sovereignty and economic and cultural diversity.

INR 4364 AS-POLS 3(3,0) The Intelligence Community: PR: POS 2041 or INR 2002 or CPO 3103 or C.I. The intelligence community structure in its relationship to foreign policy decision making, consideration of control and reliability questions, and issues of cooperation and coordination.

INR 4401 AS-POLS 3(3,0) International Law I: PR: Junior standing or C.I. The nature, evolution, and sources of international law and such subareas as recognition of states and governments, extraterritoriality, nationality, and aliens.

INR 4402 AS-POLS 3(3,0) International Law II: PR: INR 4401 or C.I. Examination of various sub-areas of international law, including maritime law, laws of the sea and seabed, air law, outer space, neutrality, and laws of war.

INR 4404 AS-POLS 3(3,0) Space Law: Examination of the legal regime of outer space from both international and national perspectives, and the legal problems arising from human activity in space.

INR 4502 AS-POLS 3(3,0) International Organizations: The study of the structure and workings of international organizations of cooperation, including the UN, its affiliates, and various regional organizations.

INR 4603 AS-POLS 3(3,0) International Relations Theory: PR: INR 2002. Theoretical trends prevalent in the study of international relations, including realism, liberalism, Marxism, feminism, and post-modernism.

INR 4714 AS-POLS 3(3,0) Politics of International Trade Policy: PR: INR 2002. Key actors and processes of international trade policy-making at the sub-national, nation-state, regional, and global levels of analysis.

ISM 3005 BA-MIS 3(3,0) MIS Techniques: PR: MIS minor or major, CGS 2100. Introduction to computer use required of users and developers of management information systems.

ISM 3011 BA-MIS 3(3,0) Management Information Systems: PR: Junior standing and business major or minor, CGS 2100 or CGS 1060. An introduction to the management and use of information technology in organizations.

ISM 3011H BA-MIS 3(3,0) Honors Management Information Systems: PR: Junior standing and business major or minor, permission of Honors, CGS 2100C or CGS 1060C. Management and use of information technology in organizations.
ISM 3013 BA-MIS 3(3,0)  
Introduction to Information Systems Management:  
PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The course introduces fundamental concepts and methods related to the management of information systems in organizations.

ISM 3043 BA-MIS 3(3,0)  
Society and Technology:  
PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities.

ISM 3214 BA-MIS 3(3,0)  
Personal Database Productivity:  
PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The use of databases and data products. Emphasizes modern tools for accessing organizational data, data mining and reporting.

ISM 3424 BA-MIS 3(3,0)  
Computer-Aided Decision Making:  
PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Basic electronic commerce and technologies. Students are required to develop an e-commerce related business plan and build a prototype Website using a tool.

ISM 3521 BA-MIS 3(3,0)  
Business Applications:  
PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Advanced topics concerning the use of application software in organizations. Focus on integration of applications.

ISM 3530 BA-MAN 3(3,0)  
Quality & Productivity Management:  
PR: MIS major or minor, GES 3031 and MAN 3025. An examination of the principles and theories of quality and operations management in manufacturing and service organizations.

ISM 4090 BA-MIS 3(3,0)  
Seminar in Management Information Systems:  
PR: MIS major or minor, ISM 3011. New developments in management information systems in a business environment.

ISM 4113 BA-MIS 3(3,0)  
Information Systems Analysis and Design:  
PR: MIS major or minor, ISM 4212, ISM 3005. Structured approaches to the development of computer-based information systems in business.

ISM 4114 BA-MAN 3(3,0)  
Advanced Business Application Development:  
PR: MIS major or minor, ISM 3005, ISM 4212, CR: ISM 4220, ISM 4113. Theory and practice in developing client server applications in business and use of modern development tools. Includes principles of multuser, multitier application design and implementation.

ISM 4130 BA-BI 3(3,0)  
Information Systems Implementation:  
PR: MIS major or minor, ISM 4113. Management of information systems development in business.

ISM 4133 BA-MIS 6(6,0)  
Information Systems Analysis, Design, and Implementation:  
PR: MIS major or minor, ISM 3005, ISM 4212. Same as ISM 4113 and ISM 4130. Comprehensive coverage of analysis, design, and Implementation of information systems.

ISM 4212 BA-MIS 3(3,0)  
Database Management:  
PR: MIS major or minor, ISM 3005 and ISM 3011. Design and implementation of relational database in organizations.

ISM 4220 BA-MIS 3(3,0)  
Distributed Information Systems:  
PR: MIS major or minor, ISM 3005 and ISM 3011. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Distributed database design and implementation.

ISM 4228 BA-MAN 3(3,0)  
Advanced Distributed Information Systems:  
PR: MIS major or minor, ISM 4220. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork emphasized in acquiring a master of networking concepts.

ISM 4238 BA-MAN 3(3,0)  
Business Programming/OOP:  
PR: MIS major or minor, ISM 3005, ISM 4212, or C.I. This course will provide an introduction to object-oriented programming (OOP) and object-oriented design (OOD).

ISM 4300 BA-MIS 3(3,0)  
Technology Management:  
PR: MIS major or minor, ISM 4113, MAN 3025, Junior Standing. The strategy and theory of the design, development, adoption, and management of new information technologies.

ISM 4323 BA-MIS 3(3,0)  
Information Systems Security:  
PR: ISM 4220. Primary issues related to security in an organization’s IT infrastructure.

ISM 4400 BA-MIS 3(3,0)  
Decision Support:  
PR: MIS major or minor, ISM 3011. Computer-based quantitative models and decision support systems in organizations.

ISM 4441 BA-MAN 3(3,0)  
Computer-Based Operations Management:  
PR: MIS major or minor, ISM 3011. Application of production planning and control theories and Management Information Systems concepts to an integrated, computerized, real-world production environment.

ISM 4448 BA-MIS 3(3,0)  
Electronic Commerce Systems:  
PR: MIS major or minor, ISM 3013, ISM 3011, and ISM 3020. Emphasizes economic issues and modern e-commerce development tools. Significant laboratory work required.

ISM 4941 BA-MIS 3(0,3)  
Internship in MIS:  
PR: ISM 3005, ISM 4212, 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.

ISM 5020 BA-MIS 1.5(1.5,0)  
MIS Foundations:  
PR: Acceptance to Graduate Study. Information systems are an integral part of modern organizations. This course provides an introduction to information systems from an organizational and managerial perspective.

ISM 5021 BA-MIS 3(3,0)  
Introduction to Management Information Systems:  
PR: Acceptance into the graduate program. Designed to provide the student with the fundamentals of business data processing and management information systems used by organizations in a modern society.

ISM 5123 BA-MIS 3(3,0)  
Concepts of Systems Analysis and Design:  
PR: Completion of ISM 5021 and Graduate Standing. Using a traditional life-cycle approach, the course introduces practical tools and techniques for organizational analysis and the subsequent design of an information system.

ISM 5127 BA-MIS 3(3,0)  
Concepts of Database Design and Administration:  
PR: ISM 5020 and admission to graduate study or MIS major or minor in term of graduation. Introduces concepts and methods related to the effective utilization of data by organizations. A database life-cycle approach is used to organize course content.

ISM 5219 BA-MIS 3(3,0)  
Business Intelligence Systems:  
PR: All BS and MIS technical courses required for admission to the MSMSM program. Modern paradigms in data analysis. The detection of useful patterns and relationships in databases.

ISM 5256 BA-MIS 3(3,0)  
Concepts of Business Programming:  
PR: Admission to Graduate Study. Principles of programming including program design, fundamental programming contracts, and database access.

ISM 5315 BA-MIS 3(3,0)  
Information Systems Project Management:  
PR: Graduate standing or C.I. This course introduces students to the concept of project management including project scope, cost, time and quality.

ISM 5507 BA-BI 3(3,0)  
Electronic Agora:  
PR: Admission to graduate study or MIS major or minor in term of graduation. Broad exploration of internet tools as vehicles for communication, interaction, decision-making, and community formation. May include issues in ethics, privacy, security, design, implementation, and applications.

ISS 4155 AS-COMM 3(3,0)  
Science Fiction and the Social Sciences:  
A multimedia examination of note-worthy science fiction from the Social Science perspective.

ITA 1005 AS-LANG 1(1,0)  
Italian Diction:  
This course is especially designed for music and voice students, with an emphasis on musical terms, Italian songs, and opera libretti.

ITA 1120 AS-LANG 4(4,1)  
Elementary Italian Language and Civilization I:  
PR: ITA 1120 or equivalent. Designed to continue development of language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

ITA 1121 AS-LANG 4(4,1)  
Elementary Italian Language and Civilization II:  
PR: ITA 1120 or equivalent. Continuation of ITA 1120.

ITA 2200 AS-LANG 3(3,0)  
Intermediate Italian Language and Civilization I:  
PR: ITA 1121 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar, study of syntax, idiomatic expression, extensive readings, and further study of Italian culture.

ITA 2201 AS-LANG 3(3,0)  
Intermediate Italian Language and Civilization II:  
PR: ITA 2200 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Italian civilization.

ITA 2210 AS-LANG 3(3,0)  
Intensive Italian Conversation:  
PR: One year of Italian or
equivalent. Practical use of the language leading toward fluency and correctness in speaking.

ITA 2240 AS-LANG 3(3,0)
Italian Conversation: PR: ITA 2001 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture.

ITA 3420 AS-LANG 3(3,0)
Italian Composition: PR: ITA 2001 or equivalent. Development of skills in composition, with an introduction to Italian culture.

ITA 3440 AS-LANG 3(3,0)

ITA 3472 AS-LANG 3(3,0)
Renaissance Art Abroad: PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo.

ITA 3760 AS-LANG 3(3,0)
Advanced Italian Oral Communication: PR: ITA 2001 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.

ITA 4820 AS-LANG 3(3,0)
Italian Syntax Abroad: PR: ITA 3420. A study of Italian Syntax for advanced students of Italian.

ITT 3480 AS-LANG 3(3,0)
Study Abroad: Italian Literature in Translation: PR: C.I. Main literary tendencies and authors of Italian literature, taught in the native environment.

ITT 4956 AS-LANG 3(3,0)
Study Abroad: Modern and Contemporary Italian Culture: PR: Junior standing and C.I. Modern and contemporary Italian culture in the natural environment.

ITW 3100 AS-LANG 3(3,0)
Survey of Italian Literature I: PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries.

ITW 3101 AS-LANG 3(3,0)
Survey of Italian Literature II: PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present.

ITW 3600 AS-LANG 3(3,0)

JOU 2100C AS-COMM 3(3,1)

JOU 3004 AS-COMM 3(3,0)
History of American Journalism: Development of mass media, leading innovators, and the media's role in the nation's history.

JOU 3101 AS-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. Materials & Supply fee: $15.00.

JOU 3200 AS-COMM 3(3,0)
Editing I: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of “C” (2.0) in JOU 2100C. Editing copy, writing headlines, managing newsroom operations. Materials & Supply fee: $15.00.

JOU 3202 AS-COMM 3(3,0)
Editing II: PR: Journalism major or Magazine Writing minor, a minimum grade of "C" (2.0) in JOU 3200, and a minimum grade of "C" (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout. Materials & Supply fee: $15.00.

JOU 3510 AS-COMM 3(3,0)
Magazine Publishing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, emphasizing business operations and current topics.

JOU 4181 AS-COMM 3(3,0)
Public Affairs Reporting: PR: Journalism major, and a minimum grade of “C” (2.0) in both JOU 2100C and JOU 3101. Reporting on city, county and state government. Materials & Supply fee: $15.00.

JOU 4224 AS-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.

JOU 4300 AS-COMM 3(3,0)
Feature Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works.

JOU 4306C AS-COMM 3(1,2)
Critical Writing: PR: Journalism major or Magazine Writing minor. Writing feature articles for newspapers and magazines.

JOU 4308 AS-COMM 3(3,0)
Freelance Writing: PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts.

JOU 4340C AS-COMM 3(1,3)
On-Line Journalism I: PR: A minimum grade of “C” (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Students will write and design news for the Web. Materials & Supply fee: $15.00.

JOU 4341C AS-COMM 3(1,3)

JPN 1120 AS-LANG 4(4,1)
Elementary Japanese Language and Civilization I: Introduces the student to Japanese culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language.

JPN 1121 AS-LANG 4(4,1)
Elementary Japanese Language and Civilization II: PR: JPN 1120 or equivalent. Continuation of JPN 1120.

JPN 2952 AS-LANG 3(3,0)

JPN 3760 AS-LANG 3(3,0)
Advanced Japanese Conversation: PR: JPN 1121 or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse.

JST 3005 AS-JUD 3(3,0)
Tenets of Judaism: PR: ENC 1101 and ENC 1102. Values, practices, and beliefs that define Judaism.

JST 3100 AS-JUD 3(3,0)

JST 3120 AS-JUD 3(3,0)
Hebrew Scriptures: PR: ENC 1102, Junior standing. The Hebrew Bible (Old Testament, in translation) in historical, social, religious, cultural and literary contexts.

JST 3121 AS-JUD 3(3,0)
Classic Texts of Judaism: PR: ENC 1102. Scriptures, post-Biblical Rabbinic writings, Exegesis, Apocrypha, Qumran documents, Mishnah, Talmud, the Siddur, as well as Jewish mystical writings.

JST 3125 AS-JUD 3(3,0)
The Book of Job: PR: Jr standing, ENC 1102. A textual-thematic study of Book of Job in English translation, exploring the Book of Job as literature, theology and ethics.

JST 3126 AS-JUD 3(3,0)
Romantic Love in the Bible: PR: ENC 1102, Junior standing. The dimensions of romantic love in the Hebrew Bible, focusing on the depiction of human feelings of love and relationship; the nature of man-woman interactions in ancient Israel.

JST 3144 AS-JUD 3(3,0)
Dead Sea Scrolls: PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance.

JST 3312 AS-JUD 3(3,0)
Identity and Genre: PR: ENC 1102 or C.I. Jewish and Hebrew literature as related to the intellectual quest for Jewish identity and modernism in the 18th and 19th centuries.

JST 3312H AS-JUD 3(3,0)
Honors Jewish Identity and Genre: PR: ENC 1102 and consent of Honors, Literary genres in Jewish and Hebrew literature of the 18th and 19th centuries as related to the intellectual quest for Jewish identity and modernism. With Honors content.

JST 3401 AS-JUD 3(3,0)
The Jewish People I: Introduction survey of the history and culture of the Jewish people from the beginnings of Judaism in the biblical era through the Graeco-Roman and rabbinic periods.

JST 3402 AS-JUD 3(3,0)
The Jewish People II: The life and history of the Jews in the medieval and modern worlds.
Educational and Historical Perspective.

Survey of Adolescent Literature: Designed to explore adolescent literature from both an educational and historical perspective, including meeting the needs of the new English language learner.

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 instruction components to public schools.

LAE 5295 ED-TLP 1-3(1-3,0)
Writing Workshop II: PR: C.I. Students will engage in exploration and practice of effective writing strategies. May include teaching small groups of students. May be repeated for credit.

LAE 5319 ED-TLP 3(3,0)
Methods of Elementary School Language Arts: PR: EDG 4233. Principles, procedures, organization, and current practices in reading, writing, listening, and talking.

LAE 5337 ED-TLP 3(3,0)
Literacy Strategies for Middle and Secondary Teaching: PR: 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.

LAE 5338 ED-TLP 3(3,0)
Teaching Writing in Middle and High School: PR: EDG 6236 or C.I. Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing.

LAE 5346 ED-TLP 3(3,0)
Methods of Teaching English Language Arts: PR: EDG 6236 or C.I. Designed for alternative certification and Masters of Arts students to explore the strands, methods and materials related to school curriculum in teaching English.

LAE 5367 AS-ENG 3(3,0)
English Composition and Literature for Teachers of Advanced Placement: PR: Graduate status or senior standing, and C.I. The course will introduce students to the AP literature curriculum.

LAE 5415 ED-TLP 3(3,0)
Children's Literature in Elementary Education: Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children; integrating literature with elementary curricula.

LAE 5465 ED-TLP 3(3,0)
Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people.

LAE 5495 ED-TLP 3(3,0)
Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment.

LAH 3130 AS-HIST 3(3,0)

LAH 3200 AS-HIST 3(3,0)

LAH 3400 AS-HIST 3(3,0)
History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present.

LAH 3470 AS-HIST 3(3,0)
History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present.

LAE 5495 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 instruction components to public schools.

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.

LAE 5338 ED-TLP 3(3,0)
Teaching Writing in Middle and High School: PR: EDG 6236 or C.I. Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing.

LAE 5346 ED-TLP 3(3,0)
Methods of Teaching English Language Arts: PR: EDG 6236 or C.I. Designed for alternative certification and Masters of Arts students to explore the strands, methods and materials related to school curriculum in teaching English.

LAE 5367 AS-ENG 3(3,0)
English Composition and Literature for Teachers of Advanced Placement: PR: Graduate status or senior standing, and C.I. The course will introduce students to the AP literature curriculum.

LAE 5415 ED-TLP 3(3,0)
Children's Literature in Elementary Education: Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children; integrating literature with elementary curricula.

LAE 5465 ED-TLP 3(3,0)
Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people.

LAE 5495 ED-TLP 3(3,0)
Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment.

LAH 3130 AS-HIST 3(3,0)

LAH 3200 AS-HIST 3(3,0)

LAH 3400 AS-HIST 3(3,0)
History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present.

LAH 3470 AS-HIST 3(3,0)
History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present.
Lin 4643 AS-ENG 3(3,0)
Cross Cultural Communication: PR: ENC 1102 and Junior standing or C.I. Styles of spoken, written, and nonverbal communication of selected cultural groups.

Lin 4643H AS-ENG 3(3,0)
Honors Cross-Cultural Communication: PR: ENC 1102H and permission of Honors. Styles of spoken, written, and nonverbal communication of selected cultural groups with honors level content.

Lin 4660 AS-ENG 3(3,0)
Linguistics and Literature: PR: LIN 3010 or C.I. Language study as an aid to understanding literature.

Lin 4680 AS-ENG 3(3,0)
Modern English Grammar: PR: ENC 1102 and Sophomore standing. Emphasis upon the analysis and comparison of traditional, structural, and transformational grammar.

Lin 4711 HPA-COMD 3(3,0)
Language Analysis: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing, and describing language across the lifespan.

Lin 4711L HPA-COMD 1(0,1)
Language Analysis Lab: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing and describing language samples across the lifespan. Graded S/U.

Lin 4801 AS-ENG 3(3,0)
Language and Meaning: PR: ENC 1102 and Sophomore Standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings.

Lin 5137 AS-ENG 3(3,0)
Linguistics: PR: 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.

Lin 5675 AS-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.

Lit 2000 AS-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.

Lit 2110 AS-ENG 3(3,0)
World Literature I: PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe.

Lit 2120 AS-ENG 3(3,0)
World Literature II: PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others.

Lit 2120H AS-ENG 3(3,0)
World Literature II — Honors: PR: Permission of Honors. Same as Lit 2120, with honors-level content.

Lit 3082 AS-ENG 3(3,0)
Continental European Fiction Since 1900: PR: ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation.

Lit 3192 AS-ENG 3(3,0)
Caribbean Literature: PR: ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; in English.

Lit 3192H AS-ENG 3(3,0)
Honors Caribbean Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. How Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; taught in English. Honors content.

Lit 3202 AS-ENG 3(3,0)
Death and Dying: PR: ENC 1102. Considering the topic of death and dying through a study of literature, the course includes facts, psychological impact, ideological responses to death and identity.

Lit 3313 AS-ENG 3(3,0)
Science Fiction: PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings.

Lit 3313H AS-ENG 3(3,0)
Honors Science Fiction Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with selected readings. Honors content.

Lit 3383 AS-ENG 3(3,0)
Women in Literature: PR: ENC 1102. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks.

Lit 3383H AS-ENG 3(3,0)
Honors Women in Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Honors content.

Lit 3394 AS-ENG 3(3,0)
Literature of AIDS: PR: ENC 1102. To familiarize students with the new genre of literature that has arisen related to AIDS. Essays, short stories, plays, poetry, diaries, and novels will be covered.

Lit 3394H AS-ENG 3(3,0)
Honors Literature of AIDS: PR: Permission of Honors and ENC 1102H or equivalent credit. Literature related to AIDS. Essays, short stories, plays, poetry, diaries, and novels. Honors content.

Lit 3482 AS-ENG 3(3,0)
Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions.

Lit 3905 AS-ENG 3(3,0)
Directed experience in Literature: PR: ENC 1102, C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit.

Lit 3911H AS-ENG 1(1,0)
Research Methods — Honors: PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing.

Lit 4043 AS-ENG 3(3,0)
Modern Drama As Literature: PR: ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama.

Lit 4184 AS-ENG 3(3,0)
Irish Literature: PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience.

Lit 4303 AS-ENG 3(3,0)
Post-World War II Fiction: PR: ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries.

Lit 4374 AS-ENG 3(3,0)
Literature of the Bible: PR: ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature.

Lit 4374H AS-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.

Lit 4433 AS-ENG 3(3,0)
Survey of Technical and Scientific Literature: PR: ENC 1102 and Junior Standing or C.I. An analysis of the historical development of technical and scientific writing from the Renaissance to the present.

Lit 4554 AS-ENG 3(3,0)
Advanced Feminist Theories: PR: ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices.

Lit 4937H AS-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.

Lit 5028 AS-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.

Lit 5039 AS-ENG 3(3,0)
Studies in Contemporary Poetry: PR: Graduate status or senior standing or C.I. English language poetry from 1945 to the present. Emphasis will be on American poems, but others such as English or Australian will be included.

Lit 5097 AS-ENG 3(3,0)
Studies in Contemporary Fiction: PR: Graduate status or senior standing or C.I. Fiction in the last 20 years in the United States and Britain. May be repeated for credit when content is different.

Lit 5250 AS-ENG 3(3,0)
The Victorian Age: Poetry: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Browning, Arnold, Hopkins, Hardy, the Rossetti, Emily Bronte, and others.

Lit 5269 AS-ENG 3(3,0)
Nineteenth-Century Essays: PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century.

Lit 5309 AS-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.

Lit 5366 AS-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.
LIT 5387 AS-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 18th centuries.

LIT 5389 AS-ENG 3(3,0) Studies in Gender & Fiction Writing: PR: Graduate status or senior standing or C.I. Graduate study of gender’s implications for teaching and practice of fiction writing.

LIT 5435 AS-ENG 3(3,0) Rhetoric of Science: PR: Graduate standing or C.I. To engage in rhetorical analysis of traditional scientific texts and critically examine the discourse of technology.

LIT 5556 AS-ENG 3(3,0) Advanced Feminist Theories: PR: Graduate status or senior standing or C.I. Graduate level Feminist Theories from “French Feminism” to “Critical Race Theories.”


MAA 4227 AS-MATH 3(3,0) Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226.

MAA 5210 AS-MATH 4(4,0) Topics in Advanced Calculus: PR: MAA 4226 or 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.

MAA 5405 AS-MATH 3(3,0) Complex Variables: PR: MAC 2313, and graduate status or senior standing or C.I. Analytic functions. Integration in the complex plane. Laurent series and residue calculus. Inversion of Laplace transformations, Conformal mappings. Applications in engineering and the physical sciences.

MAA 5416 AS-MATH 3(3,0) Foundations of Analysis: PR: MAA 4226, and graduate status or senior standing or C.I. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss’ theorems.

MAC 1105 AS-MATH 3(3,0) College Algebra: PR: Intermediate algebra or 2 years of high school algebra or C.I. Inequalities. High degree polynomials. Graphs, rational, logarithmic, and exponential functions. Systems of equations, matrices, determinants, induction. This course prepares students for higher-level mathematics courses. The “NC” grading policy applies to this course.

MAC 1105H AS-MATH 3(3,0) Honors College Algebra: PR: Appropriate score on placement test and permission of Honors. Analysis of functions (including polynomial, rational, exponential, logarithmic), analysis of conic sections, analysis of systems of linear equations, sequences and series, mathematical induction, and the binomial theorem. The “NC” grading policy applies to this course.

MAC 1114 AS-MATH 3(3,0) College Trigonometry: PR: MAC 1105 or 2 years of high school algebra or C.I. The circle arc length, circular functions, identities, inverse functions, applications to simple harmonic motion, function of angles, complete development of triangle solving. The “NC” grading policy applies to this course.

MAC 2147 AS-MATH 5(5,0) Mathematics for Calculus: PR: Solid background in algebra or trigonometry, or C.I. For students with good mathematical backgrounds who do not want to go directly into calculus. Topics include matrices, determinants, permutations, combinations, sequences, series, induction, trigonometric functions. The “NC” grading policy applies to this course.

MAC 2233 AS-MATH 3(3,0) Concepts of Calculus: PR: MAC 1105 or C.I. The differential and integral calculus of rational, exponential and logarithmic functions, with applications to business analysis. Not open to students with credit in MAC 2523 or MAC 2111. The “NC” grading policy applies to this course.

MAC 2241 AS-MATH 4(4,0) Calculus for Life Sciences: PR: MAC 1105. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biologists and others required to have one semester of calculus. The “NC” grading policy applies to this course.

MAC 2253 AS-MATH 3(3,0) Applied Calculus I: PR: MAC 1105 and MAC 1114 or C.I. Differential and integral calculus. An introduction to differential equations and Laplace Transforms. Applications to engineering technology. Not open to students with credit in MAC 2303 or MAC 2111. The “NC” grading policy applies to this course.

MAC 2254 AS-MATH 3(3,0) Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253.

MAC 2281 AS-MATH 4(4,0) Calculus for Scientists & Engineers I: PR: MAC 1105 and MAC 2311. Calculus for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in MAC 2311, MAC 2312, and MAC 2313. The “NC” grading policy applies to this course.

MAC 2281H AS-MATH 4(4,0) Calculus for Scientists and Engineers I (Honors): PR: MAC 1105 and MAC 1114 or Consent of Honors Program. Same material as MAC 2281, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to student with credit in any other calculus sequence. The “NC” grading policy applies to this course.

MAC 2282 AS-MATH 4(4,0) Calculus for Scientists & Engineers II: PR: MAC 2281. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The “NC” grading policy applies to this course.

MAC 2282H AS-MATH 4(4,0) Calculus for Scientists and Engineers II (Honors): PR: MAC 2281H or MAC 2281, and consent of Honors Program. Same material as MAC 2282, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The “NC” grading policy applies to this course.

MAC 2283 AS-MATH 4(4,0) Calculus for Scientists & Engineers III: PR: MAC 2282. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The “NC” grading policy applies to this course.

MAC 2283H AS-MATH 4(4,0) Calculus for Scientists and Engineers III (Honors): PR: MAC 2282H or MAC 2282 and consent of Honors Program. Same material as MAC 2283, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The “NC” grading policy applies to this course.

MAC 2311 AS-MATH 4(4,0) Calculus with Analytic Geometry I: PR: MAC 1105 and MAC 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 series, and the differential and integral calculus for functions of several variables. The “NC” grading policy applies to this course.

MAC 2311H AS-MATH 4(4,0) Calculus with Analytic Geometry I (Honors): PR: Permission of Honors. Differential and integral calculus, emphasizing understanding basic concepts and their applications. Students will complete projects on their own. For honors students from all disciplines. The “NC” grading policy applies to this course.

MAC 2312 AS-MATH 4(4,0) Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311.

MAC 2312H AS-MATH 4(4,0) Calculus with Analytic Geometry II (Honors): PR: Permission of Honors. Continuation of MAC 2311.

MAC 2313 AS-MATH 4(4,0) Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312.

MAC 2313H AS-MATH 4(4,0) Calculus with Analytic Geometry III (Honors): PR: Permission of Honors. Continuation of MAC 2312H.

MAC 3103H AS-MATH 3(3,0) Systems Modeling and Simulation: 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.

MAC 2104 AS-MATH 3(3,0) Foundations of Discrete Math: PR: 2 years of high school algebra and 1 year of geometry or C.I. Basic mathematical logic, methods of proof in mathematics, and application to elementary discrete structure.

MAC 4203 AS-MATH 4(4,0) Combinatorics and Graph Theory: PR: MAC 2312 and STA 2023. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and digraphs, trees, path problems, coloring planar, connectedness matchings and coverings, applications.

MAC 5205 AS-MATH 3(3,0) Combinatorics and Graph Theory: PR: PR: MAC 4203, graduate status or senior standing, or C.I. Polya’s theory of counting; Latin squares and rectangles; block designs; coding theory; probabilistic methods; hypergraphs; applications.

MAE 2801 ED-TLP 4(3,1) Elementary School Mathematics: PR: PR: MAC 1105 or MGF 1106. Mathematics appropriate for the elementary school including the six basic sets of numbers, concepts, learning sequences, algorithms, problem-solving techniques, error patterns, number systems, and geometry.

MAE 4300 ED-TLP 3(3,0) Exploring Mathematics: Provides students with the knowledge and skills to design, implement, and facilitate the development of mathematics concepts and skill through an integrated developmentally appropriate curriculum.
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>MAE 4326</td>
<td>How Children Learn Mathematics</td>
<td>PR: MAE 2801 or C.I. and admission to Phase II. Instructional strategies,</td>
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<td>learning activities, the use of manipulatives, lesson planning, evaluation</td>
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<td>of mathematical learning, and diagnostic techniques.</td>
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<td>MAE 4360</td>
<td>Mathematics Instructional Analysis</td>
<td>Study of course objectives for the middle grades and high school curriculum</td>
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<td>and survey of methods and materials which have special application for</td>
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<td>teaching mathematics.</td>
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<td>MAE 4634</td>
<td>Programs in Teaching of Mathematics</td>
<td>PR: C.I. A consideration of special programs, strategies, and materials.</td>
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<td>Emphasis on individual needs of students.</td>
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<td>MAE 5318</td>
<td>Current Methods in Elementary School Mathematics</td>
<td>PR: EDG 4323. Strategies of instruction of computation and concepts of</td>
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<td>number, geometry, and measurement; instructional materials. (Meets Elementary</td>
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<td>Education certification requirements.)</td>
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<tr>
<td>MAE 5327</td>
<td>Teaching Middle School Mathematics</td>
<td>PR: EDG 6236 or EDG 6236 or C.I. Students will develop skills in planning</td>
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<td>and delivering mathematics instruction in grades 5-9. The use of technology,</td>
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<td>cooperative learning, ESOL, and manipulatives is considered.</td>
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<tr>
<td>MAE 5336</td>
<td>Current Methods in Secondary School Mathematics</td>
<td>PR: EDG 4323 or EDG 6236 or C.I. Required special methods course for</td>
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<td>mathematics 6-12 certification. Assessment, curriculum, technology, practical</td>
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<td>classroom ideas and activities.</td>
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<tr>
<td>MAE 5935</td>
<td>Post-Secondary Mathematics</td>
<td>PR: Graduate status or senior standing or C.I. The course will focus on</td>
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<td>issues which are faced by teachers of collegiate mathematics. Topics will</td>
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<td>be selected from teaching issues, program issues, and other issues.</td>
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<tr>
<td>MAN 3025</td>
<td>Management of Organizations</td>
<td>PR: Junior standing and business major or minor, ACG 2071, ECO 2013, ECO</td>
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<td></td>
<td>2023. Introduction to the theory and practice of managing formal organizations,</td>
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<td>including planning, organization theory, human behavior and control.</td>
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<tr>
<td>MAN 3025H</td>
<td>Honors Management of Organizations</td>
<td>PR: Junior standing and business major or minor, permission of Honoros, ECO</td>
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<td>2013, ECO 2023 and ACG 2071. Introduction to the theory and practice of</td>
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<td>managing formal organizations, including planning, organization theory,</td>
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<td>human behavior, and control. Applicable to honors students.</td>
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<tr>
<td>MAN 3301</td>
<td>Management of Human Resources</td>
<td>PR: Management major, MAN 3025, Junior Standing. Provides students with a</td>
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<td>complete, comprehensive review of essential human resource management</td>
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<td>concepts and techniques. Applicable to all students of management.</td>
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<tr>
<td>MAN 4029</td>
<td>Service Organization Management</td>
<td>PR: Management major, MAN 3025 and ISM 3530. Study of the special</td>
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<td>characteristics, problems, and methods for managing service-oriented</td>
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<td>organizations.</td>
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<td>MAN 4101</td>
<td>Human Relations in Management</td>
<td>PR: Management major, MAN 3025. The study of individual, interpersonal,</td>
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<td>group, and intergroup problems in business organizations through the use</td>
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<td>of cases and experimental exercises.</td>
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<tr>
<td>MAN 4240</td>
<td>Organizations: Theory and Behavior</td>
<td>PR: Management major, MAN 3025. A course providing a micro/macro approach</td>
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<td>to the study of organizations by integrating organizational theory and</td>
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<td>organizational behavioral science concepts.</td>
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<td>course to give students in the area experiences generally reserved for</td>
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<td>practitioners in the field of human resource management and labor relations.</td>
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<tr>
<td>MAN 4320</td>
<td>Human Resources Recruitment and Selection</td>
<td>PR: Management major, MAN 3301. A concentrated investigation of the methods</td>
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<td>appropriate to the development, implementation and administration of the</td>
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<td>staffing process in contemporary organizations.</td>
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<tr>
<td>MAN 4330</td>
<td>Compensation Administration</td>
<td>PR: Management major, MAN 3301. Presentation of compensation theory and</td>
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<td>current pay related issues and their application to the design and</td>
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<td>administration of pay systems in large and small organizations.</td>
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<tr>
<td>MAN 4350</td>
<td>Training and Development</td>
<td>PR: Management major, MAN 3301. This course focuses on training and</td>
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<td>development activities as performed by organizational specialists. Theory,</td>
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<td>issues, practices and problems are discussed.</td>
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<td>MAN 4401</td>
<td>Labor Relations Management</td>
<td>PR: Management major, Junior standing, MAN 3301. The impact of employee</td>
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<td>labor relations on labor relations, current problems, conflicts and trends,</td>
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<td>the development of managerial approaches to achieve labor-management</td>
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<td>cooperation.</td>
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<td>MAN 4441</td>
<td>Conflict Resolution and Negotiation</td>
<td>PR: MAN 3025. Conflict resolution and negotiation theories and processes</td>
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<td>applied to human resource management practices and other management</td>
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<td>activities in work organizations.</td>
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<tr>
<td>MAN 4521</td>
<td>Production Planning and Control</td>
<td>PR: Management major, ISM 3530. In depth study on long-range, intermediate-</td>
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<td>range and short-range planning and control methods as applied to a</td>
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<td>manufacturing organization.</td>
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<td>MAN 4600</td>
<td>International Management</td>
<td>PR: Management major, GEB 4361. The course examines issues involved in</td>
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<td>multinational management of business firms, with special emphasis on</td>
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<td>comparative management.</td>
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<td>MAN 4701</td>
<td>Business Ethics and Society</td>
<td>PR: Management major, MAN 3025. This course applies the ethics dimension to</td>
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<td>business decisions in today's complex political, social, economic and</td>
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<td>technological environment.</td>
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<td>MAN 4720</td>
<td>Strategic Management</td>
<td>PR: Completion of the remainder of the Core Curriculum, graduating senior,</td>
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<td>and business major or minor. Students assume a strategic view of</td>
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<td>organizations and integrate and apply material learned in their business</td>
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<td>courses to modern organizational problems and opportunities.</td>
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<tr>
<td>MAN 4720H</td>
<td>Honors Strategic Management</td>
<td>PR: Permission of Honors and Graduating semester. Capstone course integrates</td>
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<td>and applies management theories, and frameworks to tackle modern</td>
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<td>organizational planning problems, and opportunities. Honors content.</td>
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<tr>
<td>MAN 4802</td>
<td>Entrepreneurship</td>
<td>PR: Management major or minor, MAN 3025, FIN 3403, and MAR 3023. Study of</td>
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<td>entrepreneurship with emphasis on innovation, feasibility, planning,</td>
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<td>product and service concepts, and organizing financing and developing a</td>
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<td>new venture.</td>
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<td>MAN 4941</td>
<td>Management Internship</td>
<td>PR: Management major, approval, consent of department chair. Provides</td>
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<td>student with supervised, management-related work experience in a sponsoring</td>
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<td>organization. See department for information; application required.</td>
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<td>NOTE: MAN 4941 may not be counted for restricted elective credit in manage-</td>
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<td>ment. May be repeated for credit.</td>
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<tr>
<td>MAN 5021</td>
<td>Management Foundations</td>
<td>PR: Graduate standing or C.I. Theory and practice of managing organizations</td>
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<td>to include planning, organizational theory, human behavior, and control.</td>
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<td>MAN 5050</td>
<td>Management Concepts</td>
<td>PR: Acceptance in MBA program. Theory and practice of managing organizations</td>
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<td>to include planning, organizational theory, human behavior, and control.</td>
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<td>MAN 5867</td>
<td>Small Business Institute</td>
<td>PR: C.I. Hands-on small business consulting course. Students are assigned</td>
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<td>teams and work with a local small business.</td>
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<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>PR: MAC 2313 or C.I. Methods of solution for first order equations. Linear</td>
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<tr>
<td>MAP 2302H</td>
<td>Differential Equations (Honors)</td>
<td>PR: Permission of Honors and MAC 2313 or C.I. Methods of solution for first</td>
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<td>Series solutions. Selected applications. Students will complete projects for</td>
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<td>Honors students from all disciplines.</td>
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<tr>
<td>MAP 3401</td>
<td>Problem Analysis</td>
<td>PR: MAC 2313 or MAC 2253 or equivalent. Application of calculus techniques</td>
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<td>used in solving selected problems in Engineering Technology.</td>
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<tr>
<td>MAP 4103</td>
<td>Mathematical Modeling</td>
<td>PR: MAC 2311 or MAC 2261, and MAP 2302. An overview of model construction.</td>
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<td>Model fitting, optimization models, empirical construction and modeling</td>
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<td>dynamic behavior.</td>
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<td>MAP 4153</td>
<td>Vector and Tensor Analysis</td>
<td>PR: MAC 2313 or C.I. Vector calculus. The theorems of Green, Gauss and</td>
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<td>Stokes. Introduction to tensors. Application in engineering and physical</td>
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<td>MAP 4711</td>
<td>Optimization for Actuarial Science</td>
<td>PR: MAC 2312 and STA 2233. Linear and dynamic programming, project</td>
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<td>scheduling, integer programming, theory of queues and stochastic simulation.</td>
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<tr>
<td>MAP 4307</td>
<td>Applications of Complex Variables (Advanced Engineering Math Series)</td>
<td>PR: MAP 2302. Analytic functions and complex integration. Residue integration,</td>
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<td>Taylor and Laurent series, conformal mapping and the application of</td>
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<td>complex analysis to Potential Theory.</td>
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Applications involving the wave equation, heat equation, C.I. Legendre polynomials and Bessel functions. The theory of Sturm-Liouville. Separation of variables. Applications involving the wave equation, heat equation and equation of Laplace.

MAP 4364 AS-MATH 3(3,0)
Applied Boundary Value Problems II: PR: MAP 4363 or C.I. Legendre polynomials and Bessel functions. The theory of Sturm-Liouville. Separation of variables. Applications involving the wave equation, heat equation and equation of Laplace.

MAP 4371 AS-MATH 3(3,0)
Numerical Methods for Differential Equations: PR: MAC 2283 or MAC 2213, MAS 3105 or C.I. Numerical theory and practices used in solving ordinary differential equations and PDE. Covers Euler's method, trapezoidal rule, multi-step methods, Runge-Kutta, error control, finite differences, implicit and explicit schemes, iterative methods, and stability.

MAP 5106 AS-MATH 3(3,0)
Introduction to Quantitative Aspects of Modeling and Simulation: PR: MAC 2253, graduate status or senior standing, or C.I. An introduction to calculus, matrix algebra, probability and statistics, and high level programming languages. A student who has mastered this content does not have to take this course.

MAP 5117 AS-MATH 3(3,0)
Mathematical Modeling: PR: STA 4521, MAC 4363, graduate status or senior standing, or C.I. Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models.

MAP 5336 AS-MATH 3(3,0)
Ordinary Differential Equations and Applications: PR: MAP 2302, and graduate status or senior standing or C.I. Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations.

MAP 5385 AS-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.

MAP 5396 AS-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.

MAP 5404 AS-MATH 3(3,0)
Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 2302, ESI 5219 or equivalent, ESI 4312, and graduate status or senior standing or C.I. Methods of proof, set theory, basic elements of topology, real analysis, graph theory, and matrix analysis.

MAP 5407 AS-MATH 3(3,0)

MAP 5426 AS-MATH 3(3,0)
Special Functions: PR: MAP 2302, and graduate status or senior standing or C.I. Series and integral representations, generating functions, recurrence relations and orthogonality properties of the special functions. Emphasis on Bessel, Legendre and hypergeometric functions.

MAP 5435 AS-MATH 3(3,0)
Advanced Mathematics for Engineers: PR: MAP 2302, and graduate status or senior standing or C.I. Linear Algebra and matrix methods, ordinary differential equations, Fourier series, partial differential equations, numerical methods for differential equations, and applications to engineering.

MAP 5514 AS-MATH 3(3,0)
Linear and Nonlinear Waves I: PR: MAP 2302, MAP 4363, and graduate status or senior standing, or C.I. Equations of motion in inviscous and viscous fluids, energy equation and energy flux, linear theory of gravity and capillary-gravity waves, variational principles for water waves.

MAP 5931 AS-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.

MAR 3023 BA-MAR 3(3,0)
Marketing: PR: Junior standing and business major or minor. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad.

MAR 3023H BA-MAR 3(3,0)
Marketing - Honors: PR: Junior standing and business major or minor, permission of Honors. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control.

MAR 3323 BA-MAR 3(3,0)
Integrated Marketing Communication: PR: Marketing major or minor, MAR 3023. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs.

MAR 3391 BA-MAR 3(3,0)
Professional Selling: PR: Marketing major or minor, MAR 3023. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling.

MAR 3403 BA-MAR 3(3,0)
Sales Force Management: PR: Marketing major or minor, MAR 3023. An overview of the sales management process. Emphasis on sales program formulation and implementation.

MAR 3503 BA-MAR 3(3,0)
Customer Behavior: PR: Marketing major or minor, MAR 3023. End user and business customer buying behavior, building long-term customer relationships, and services strategies.

MAR 3613 BA-MAR 3(3,0)
Marketing Analysis and Research: PR: Marketing major or minor, MAR 3023 and one of the following: ECO 3401, ECO 3411, STA 2023, STA 3023. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized.

MAR 3641 BA-MAR 3(3,0)
Marketing Intelligence: PR: Marketing major or minor, MAR 3023. Contemporary sources and applications of information concerning external forces impacting market decision making.

MAR 3880 BA-MAR 3(3,0)
E-Marketing: PR: Marketing major or minor, MAR 3023, CIS 2100. Course provides an in-depth study of the role of the internet in developing marketing strategies and plans.

MAR 4156 BA-MAR 3(3,0)
International Marketing: PR: Marketing major or minor, MAR 3023. Investigates strategy, policy and the variables in international marketing decisions.

MAR 4231 BA-MAR 3(3,0)
Retailing Management: PR: Marketing major or minor, MAR 3023. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc.

MAR 4392 BA-MAR 3(3,0)
Advanced Professional Selling: PR: MAR 3391 and Department Consent. Advanced study of the professional selling process, including team selling, negotiating, customer conflict management, and CRM systems.

MAR 4711 BA-MAR 3(3,0)
Sports Marketing: PR: Marketing major or minor, MAR 3023. Study of marketing as it applies to the sports and leisure industry.

MAR 4712 BA-MAR 3(3,0)
Healthcare Marketing: PR: Marketing major or minor, MAR 3023. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers.

MAR 4715 BA-MAR 3(3,0)
Entertainment Marketing: PR: MAR 3023. Application of marketing theory and tools to the marketing of products and services in the entertainment industry.

MAR 4724 BA-MAR 3(3,0)

MAR 4803 BA-MAR 3(3,0)
Marketing Management: PR: Marketing major or minor, MAR 3023 and MAR 3613. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments.

MAR 4804 BA-MAR 3(3,0)
Marketing Strategy: PR: Marketing major or minor, MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making.

MAR 4841 BA-MAR 3(3,0)
Services Marketing: PR: Marketing major or minor, MAR 3023. Examination of marketing in services industries, with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of services strategies.

MAR 4941 BA-MAR 3(3,0)
Marketing Internship: PR: Marketing major, application approval, consent of department chair. Provides students with supervised, market-related work experience in a sponsoring organization. Application required.

MAR 5055BA-MAR 1-3(1-3,0)
Marketing Foundations: PR: Acceptance into the graduate program. Study of functions, institutions, and basic marketing of goods in the U.S. economy.

MAR 5941 BA-MAR 3(3,0)
Small Business Consulting: PR: Graduate status, all foundation classes, FIN 4405, MAR 6816. Provides students opportunity to apply knowledge learned in classroom to real business situations. Open to undergraduate majors in the College of Business Administration with approval of the department chair.
**UCF Courses and Descriptions**

**MAS 3105** AS-MATH 4(4,0)
Matrix and Linear Algebra: PR: MAC 2212 or C.I. Matrices, determinants, vector spaces in Rn, linear independence, basis, solutions of systems, range of linear transformations, eigenvectors, Jordan Form, matrix functions, quadratic forms.

**MAS 3106** AS-MATH 4(4,0)
Linear Algebra: PR: MTH 3302, MAS 3105, or C.I. Abstract vector spaces, linear transformations, isomorphisms, projections, innerproducts, the spectral theorem, Jordan Canonical Form. (Only offered spring semester).

**MAS 3203** AS-MATH 3(3,0)
Introduction to Number Theory: PR: MTH 3302 or C.I. The course will include the following topics: inductive reasoning, factorization, the division algorithm and congruences.

**MAS 4301** AS-MATH 3(3,0)
Algebraic Structures: PR: MTH 3302 or C.I. An introduction to groups, rings and fields.

**MAS 5145** AS-MATH 3(3,0)
Advanced Linear Algebra and Matrix Theory: PR: MAS 3105, and graduate status or senior standing or C.I. LU and LDU decompositions, linear spaces, inner product spaces, systems of linear equations, eigenvalues and canonical forms, variational principles and applications.

**MAS 5311** AS-MATH 3(3,0)
Abstract Algebra with Applications: PR: MAS 4301 or undergraduate abstract algebra, and graduate status or senior standing or C.I. Group actions, the class equation, Sylow Theorems, polynomial rings, Euclidean domains, principal ideal domains, field extensions, modules, and semi-simple rings.

**MAT 5711** AS-MATH 3(3,0)
Scientific Computing: PR: MAC 2313, MAP 2302, 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.

**MCB 1310** BCBS-M&M 3(3,0)

**MCB 2004C** BCBS-M&M 4(3,2)
Microbiology for Health Professionals: PR: BSC 2010C, CHM 1022 or CHM 2045C. A survey of microbiology for the health professional. Materials & Supply fee: $45.00

**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. Materials & Supply fee: $45.00

**MCB 3020H** BCBS-M&M 5(3,5)
General Microbiology Honors: PR: BSC 2010C, CHM 2205, 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.

**MCB 3203** BCBS-M&M 3(3,0)
Pathogenic Microbiology: PR: MCB 3202C or C.I. Microorganisms producing disease in man and other animals; means of transmission; protection against disease.

**MCB 3203L** BCBS-M&M 1(0,3)
Pathogenic Microbiology: CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms. Materials & Supply fee: $45.00

**MCB 3522H** BCBS-M&M 3(3,0)

**MCB 4114C** BCBS-M&M 4(3,3)
Determinative & Systemic Microbiology: PR: MCB 3020C, MCB 3023. Microbial classification taxonomic rules and nomenclature techniques for identification and interrelating the phyla and taxa of bacteria. Materials & Supply fee: $15.00

**MCB 4312** BCBS-M&M 3(3,0)
Molecular Biotechnology: PR: MCB 3202. Principles, techniques, and applications of Molecular Biotechnology in genetically modified food, cloning, gene therapy, and forensics; transgenic animals; patents and regulations.

**MCB 4414** BCBS-M&M 3(3,0)
Microbial Metabolism: PR: MCB 3020C, CR: BCH 4053. Interrelationship between cellular structure function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment.

**MCB 4503C** BCBS-M&M 3(3,0)

**MCB 4603** BCBS-M&M 3(3,0)
Environmental Microbiology: PR: MCB 3020C. Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environments.

**MCB 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 to tissue infection.

**MCB 5225** BCBS-M&M 3(3,0)
Molecular Biology of Disease: PR: Graduate standing or C.I. An in-depth study of the molecular biological mechanisms of diseases in experimental animal models and human populations.

**MCB 5505** 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, FIV, virus-host interaction, genome replication and pathogenesis.

**MCB 5527** BCBS-M&M 3(3,0)
Genetic Engineering and Biotechnology: PR: PCB 3522 and PCB 4524 or C.I. Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems, Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth.

**MCB 5564** BCBS-M&M 3(3,0)
Applied Microbiology: PR: MCB 3020C or C.I. Microbial biochemistry of industrial processes including: economics, screening, scale up, quality control and applied genetics.

**MCB 5932** BCBS-M&M Variable
Current Topics in Molecular Biology: PR: Graduate standing or C.I. Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit.

**MGF 1106** AS-MATH 3(3,0)
Finite Mathematics: PR: Intermediate algebra or 2 years of high school algebra or C.I. Introduction to logical structures, sets, probability, geometry, arrays, games. This course is intended for students who are not planning to take further courses in mathematics.

**MHF 3302** AS-MATH 3(3,0)

**MHF 4404** AS-MATH 3(3,0)

**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.

**MHS 5005** ED-CFCS 3(3,0)
Introduction to the Counseling Profession: PR: Completion of Phase II of Education Professional Preparation or C.I. Overview of the philosophy, organization, administration, and roles of counselors in various work settings.

**MLS 3220C** BCBS-M&M 3(3,3)
Techniques in Clinical Microscopy: Analysis of body fluids and urine by chemical and microscopic methods with interpretation and correlation to human disease. Materials & Supply fee: $25.00

**MLS 3305** BCBS-M&M 3(3,0)
Hematology: PR: CHM 2210 and PCB 3703C. Overview of the hemapoietic system and disease states associated with blood and bone marrow.

**MLS 3305L** BCBS-M&M 1(0,6)
Hematology Lab: PR: MLS 3305C. Practical laboratory procedures routinely performed for analyzing hematologic abnormalities.

**MLS 3705** BCBS-M&M 3(3,0)
Concepts in Education/Management: PR: Admission to professional phase of the MLS Program or C.I. Introduction to laboratory management, health delivery systems, and educational practices in clinical settings.

**MLS 4334** BCBS-M&M 3(3,0)
Hemostasis: PR: CHM 2210 and PCB 3703C. Overview of hemostatic and fibrinolytic conditions at the time of disease and the relationship of laboratory tests to diagnosis.

**MLS 4420C** BCBS-M&M 1(1,2)
Clinical Mycology: PR: Admission to the professional phase of the MLS program with C.I. Instruction and laboratory practice in the isolation and identification of fungi associated with mycotic infections of man. Materials & Supply fee: $15.00

**MLS 4430C** BCBS-M&M 2(1,3)
Clinical Parasitology: PR: Admission to the professional phase of the MLS program or C.I. Instruction and laboratory practice in the examination and study of clinical material for the detection and identification of animal parasites. Materials & Supply fee: $15.00

**MLS 4460C** BCBS-M&M 5(3,6)
Clinical Pathogenic Microbiology: PR: or CR: MCB 3203 and admission to the professional phase of the MLS
program. Isolation and pathogenic bacteria and serological methods; interpretation of abnormal results, with correla-
tion to disease. Materials & Supply fee: $45.00

MLS 4505C BCBS-M&M 3(3,0)
Immunodiagnostics: PR: PCB 3233. Theory and appli-
cation of immunologic principles and their use in diagnosis of human disease. Materials & Supply fee: $15.00

MLS 4550 BCBS-M&M 4(2,6)
Clinical Immunohematology: PR: Admission to the pro-
fessional phase of the MLS program or C.I. Investigation of incompatible crossmatches; antibody identification, leuko-
cyte antigens and identification procedures, problem solv-
ing. Materials & Supply fee: $15.00

MLS 4625 BCBS-M&M 3(3,0)
Advanced Clinical Chemistry I: PR: CHM 2210. Correlation of lab test to specific disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electrolytes, and blood gases.

MLS 4625L BCBS-M&M 1(0,3)
Advanced Clinical Chem I Lab: CR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory.

MLS 4630 BCBS-M&M 3(3,0)
Advanced Clinical Chemistry II: PR: Admission to profes-
sional phase of MLS or C.I. Correlation of laboratory tests to specific human disease states.

MLS 4630L BCBS-M&M 1(0,3)
Advanced Clinical Chem II Lab: PR: CHM 2205 or C.I. CR: MLS 4630C. Performance of laboratory procedures routine
ly used in a clinical chemistry laboratory.

MLS 4830C BCBS-M&M 4(4,8)
Interpretive & Practical Clinical Chemistry: PR: Admission to the MLS program, MLS 4625C, MLS 4630C. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on prac-
tice both in the student lab and affiliate. Materials & Supply fee: $15.00

MLS 4831C BCBS-M&M 4(4,8)
Interpretive & Practical Immunohematology: PR: Admission to the MLS program, MLS 4550, MLS 4505C. Advanced study of principles of immunohematology. Application and performance of technique to solve prob-
lemes in blood banking will be included. Materials & Supply fee: $15.00

MLS 4832C BCBS-M&M 4(4,8)
Interpretive & Practical Hematology: PR: Admission to the MLS program, MLS 4625C, MLS 4630C; MLS 4534C. Advanced study of hematology and pathophysiological correlation to hematology disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates. Materials & Supply fee: $15.00

MLS 4835C BCBS-M&M 4(4,8)
Diagnostic Microbiology: PR: Admission to the MLS pro-
gram, MLS 4460C. Practical application of modern bacte-
rial procedures with clinical specimens to include mycolo-
gy & virology and appropriate quality control. Clinical prac-
tice in both student lab and affiliate. Materials & Supply fee: $15.00

MLS 4834C BCBS-M&M 4(4,8)
Advanced Instrumentation: PR: Admission to the MLS pro-
gram, MLS 4833C. An examination review & practice of technologies impacting the clinical laboratory to include flow cytomtery, PCR, LIS, robotics. Case studies will be a fundamental part of this course.

MLS 4910 BCBS-M&M 1(1,0)
Introduction to Clinical Research: PR: MLS 3220C, MLS 4625C, MLS 4550. Introduces MLS students to dif-
ferent types of research within the clinical setting.

ML 4933 BCBS-M&M 1(1,0)
Medical Technology Seminar: PR: MLS Senior status. Review of MLS coursework, case study discussions and guest lectures describing employment opportunities. May be repeated for credit.

MMC 2804 AS-COMM 3(3,0)
Mass Media: Introduction to the nation’s mass media, including newspapers, radio, television, magazines, adver-
tising, and public relations.

MMC 3420 AS-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.

MMC 4200 AS-COMM 3(3,0)
Mass Communication Law: PR: Open only to majors in Journalism, Ad/PR, or RTV or minors in Mass Comm. The legal rights and responsibilities of the mass media.

MMC 4254 AS-COMM 3(3,0)
Ad/Pr campaigns: PR: AD/PR majors only and ADV 3100, PUR 4000 and either PUR 3100 or ADV 4101. Planning and managing communication Campaigns that integrate both advertising and public relations strategies

MMC 4263 AS-COMM 3(3,0)
New Media Technologies: PR: Majors only. RTV 3200. An examination of the technologies impacting the commu-
nications media environment and society.

MMC 4300 AS-COMM 3(3,0)
International Media: PR: Junior standing or C.I. The stu-
dent will analyze different communication systems from around the world. There will be at least six case studies from any of these areas - Asia, Latin American, Western Europe, Middle East, Africa.

MMC 4602 AS-COMM 3(3,0)
Contemporary Media Issues: PR: A minimum grade of “C” (2.0) in JOU 210C. Relationship between the mass media and society; examination of social and ethical issues and responsibilities of the media’s relationship with government.

MUC 1101C AS-MUSIC 2(1,1)
Composition I: PR: Open to qualified majors and non-
music majors with C.I. Creative work in small forms. May be repeated for credit.

MUC 2104C AS-MUSIC 2(1,1)
Composition II: PR: MUC 1101C and Music or composi-
tion major. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit.

MUC 3105C AS-MUSIC 2(1,1)
Composition III: PR: MUC 1101C and MUC 2104C. Continuation of Composition II. Competence determined by faculty jury.

MUC 3311 AS-MUSIC 3(2,2)
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.

MUC 4106C AS-MUSIC 2(1,1)
Composition IV: PR: MUC 1101C, MUC 2104C, MUC 3105C. Continuation of Composition III. Competence determined by faculty jury.

MUC 4313 AS-MUSIC 3(3,0)
MIDI Sequencing II: PR: MUC 4441, Junior standing or C.I. Technical aspects of MIDI usage, including MIDI specifi-
cation, sysex, and MIDI machine control.

MUC 4441 AS-MUSIC 3(3,0)
MIDI Sequencing III: PR: MUC 3311, Junior standing and C.I. Continuation of sequencing, sampling, and inactive digital music technology.
MUC 4611C AS-MUSIC 3(2,1) Computer Animation and Digital Music: PR: MUC 4441 or FIL 3286C and C.I. Music students and computer anima-
tion students work collaboratively to produce animation projects with original musical scores and sound effects.


MUE 1291 AS-MUSIC 1(0,1) Classroom Instruments: Instruction in recorder and gui-
tar, as it applies to classroom usage for music educators.

MUE 2040 AS-MUSIC 2(2,0) Introduction to Music Education: PR: None. An intro-
duction to music education covering philosophy, history, and current practice and trends. Observation in schools required.

MUE 2211 ED-CFCS 3(3,0) Early Childhood Music and Movement: An examination of the role of music and creative movement in the lives of young children.

MUE 2440 AS-MUSIC 1(0,2) String Techniques: PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical techniques.

MUE 2450 AS-MUSIC 1(1,0) Woodwind Techniques I: PR: MUED major, Junior stand-
ing or C.I. Class instruction in woodwind playing and pedagogical techniques.

MUE 2460 AS-MUSIC 1(0,2) Brass Techniques: PR: MUED major, junior standing or C.I. Class instruction in brass playing and pedagogical techniques. May be repeated for credit.

MUE 2470 AS-MUSIC 1(0,2) Percussion Techniques: PR: MUED major, junior stand-
ing or C.I. Class instruction in percussion playing and pedagogical techniques. May be repeated for credit.

MUE 3210 ED-CFCS 3(2,1) Music for Elementary School: Fundamental proce-
dures for teaching elementary school music, stressing appropriate music materials and activities for different age groups; selected experience in music.

MUE 3451 AS-MUSIC 1(1,0) Woodwind Techniques II: PR: MUE 2450, MUED major, Junior standing or C.I. Continuation of Woodwind Techniques I, with emphasis on double reeds.

MUE 4311 ED-CFCS 2(2,0) Elementary School Music Methods: PR: Junior stand-
ing, MUED major. Organization and administration of instruction for comprehensive music education, K-6, instructional planning, techniques and materials for ele-
mentary music education.

MUE 4330 ED-CFCS 2(2,0) Secondary School Music Methods: PR: MUE 4311 or C.I. Instructional planning, techniques and materials in middle school, junior high and senior high classrooms; consideration of general music education program, evalua-
tion materials and procedures.

MUE 4350 ED-TLP 2(2-3,3) General Music Pre-K through Grade 8: PR: Consent of instructor. Designed for music educators. Exploration of music materials and teaching strategies for enhancing stu-
dents' learning through music. Experience with recorder, movement, choral, conducting, and curriculum infusion included. Implementation project available. May be repeat-
ed for credit. Graded S/U.


MUE 4481 AS-MUSIC 1(1,0) Jazz Pedagogy: PR: Music major, MUT 1112 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level.

MUE 4963 AS-MUSIC 0(1,0) Music Education Pre-Professional Interview: PR: Internship I. Demonstration of comprehensive music education skills and knowledge. Graded S/U. May be repeat-
ed one time.

MUE 5348C ED-TLP 4(4,0) K-12 Music Methods: PR: Graduate standing in Music Education or C.I. Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for gen-
eral, choral, and instrumental music education.

MUG 3104 AS-MUSIC 2(1,1) Basic Conducting: Fundamental techniques and practice in conducting.

MUG 3202 AS-MUSIC Variable Choral Conducting and Materials: PR: MUG 3104. Fundamental principles of choral conducting and rehears-
al techniques including an examination of materials.

MUG 3302 AS-MUSIC Variable Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials.

MUG 4103C AS-MUSIC 2(1,1) Advanced Conducting: PR: C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal proce-
dures, selection of materials and program-building, inter-
pretation of scores, study and performance of selected works. May be repeated for credit.

MUH 2071C AS-MUSIC 1(0,1) World Music Survey and Performance Laboratory: PR: MUT 1112 or C.I. An introduction to different musical cul-
tures including West African, Caribbean, South American, and Asian.

MUH 3622 AS-MUSIC 3(3,0) Music and Ritual in East Asian Religions: PR: ENC 1102 and one of the following: REL 2300, HUM 2211, HUM 2230, MUL 2720, ANT 2000, ANT 2410, WOH 2012, WOH 2022. The aural and kinetic elements of religious ceremo-
y, focusing on the interplay of music and ritual in Buddhism, Daoism, Confucianism, Shamanism.

MUH 4211 AS-MUSIC 1(0,1) History and Literature I: PR: MUT 1112. In-depth study of the development of Western musical styles from antiquity to present.

MUH 4212 AS-MUSIC 3(3,0) History and Literature II: PR: MUH 4211. Continuation of MUH 4211.

MUH 4218 AS-MUSIC 1(1,0) Review of Music History: PR: C.I. A review of music his-
tory from Ancient Greece to the present.


MUL 2010 AS-MUSIC 3(2,1) Enjoyment of Music: PR: Non-music majors only. Designed to develop an understanding of musical princi-

MUL 2016 AS-MUSIC 3(3,0) Evolution of Jazz: Survey of jazz literature and perform-
ance.


MUC 3381 AS-MUSIC 3(3,0) Contemporary Popular Music: PR: MUL 2010 or MUT 1112 or C.I. History and analysis of selected genres in recent popular music. Music reading not required.

MUC 3400 AS-MUSIC 2(1,1) Piano Literature I: PR: Major in Music or C.I. Survey of stringed keyboard literature from the 16th century to the present, with emphasis on technical, formal and perform-
ance problems.

MUC 3401 AS-MUSIC 2(1,1) Piano Literature II: PR: MUL 3400. Continuation of MUC 3400.

MUC 3422 AS-MUSIC 3(3,0) String Literature: PR: Major and C.I. Survey of string solo/chamber music literature from the 16th century to the present.

MUC 3441 AS-MUSIC 2(2,0) Woodwind Literature: PR: Junior standing, C.I. Music major. Survey of woodwind literature from the 16th centu-
ry to the present.

MUC 3442 AS-MUSIC 2(2,0) Brass Literature: PR: Music major (Brass), Junior stand-
ing, C.I. Survey of brass solo/ensemble music literature from 16th century to present.

MUC 3463 AS-MUSIC 2(2,0) Percussion Literature: PR: Music major (Percussion), Junior standing, C.I. Survey of music written for percussion instruments.

MUC 3603 AS-MUSIC 1(1,1) American/English Song Literature: PR: C.I. Survey of songs written by American or English composers.

MUC 3604 AS-MUSIC 1(1,1) German Song Literature: PR: Music major or C.I. Survey of German song literature.

MUC 3605 AS-MUSIC 1(1,1) French Song Literature: PR: Music major or C.I. Survey of French song literature.

MUM 5806 AS-MUSIC 3(3,0) Performing Arts Management: PR: Graduate status or senior standing or C.I. Structure of nonprofit performing arts organization (PAOs), examining the fundamental ele-
ments of administration, audience development, market-
ing, and fund-raising.

MUN 2023 AS-MUSIC 1(0,2) Synthesizer Ensemble: PR: C.I. and keyboard ability. Rehearsal and performance of music for synthesizers. May be repeated for credit.

MUN 2442 AS-MUSIC 1(1,0) Percussion/Mallet Ensemble: PR: C.I. Preparation and performance of music for percussion with mallets. May be repeated for credit.
MUN 3113 AS-MUSIC 2(0,8)  
Marching Band: PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit.

MUN 3123 AS-MUSIC 1(0,3)  
Concert Band: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit. Materials & Supply fee: $10.00

MUN 3143 AS-MUSIC 1(0,4)  
Wind Ensemble: Open to all students by audition. Study and performance of music for wind ensemble and band. May be repeated for credit. Materials & Supply fee: $10.00

MUN 3283 AS-MUSIC 1(0,5)  
Symphony Orchestra: PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3313 AS-MUSIC 1(3,0)  
University Choir: PR: C.I. Open to all students by audition. Study and performance of music for women's voices. Open to all students. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3323 AS-MUSIC 1(0,3)  
Women's Chorus: PR: Audition and C.I. Study and performance of music at the keyboard. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3423 AS-MUSIC 1(0,2)  
Woodwind Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3430 AS-MUSIC 1(1,0)  
Trumpet Ensemble: PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3433 AS-MUSIC 1(0,2)  
Brass Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3443 AS-MUSIC 1(0,2)  
Percussion Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3444 AS-MUSIC 1(1,0)  
Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3453 AS-MUSIC 1(0,3)  
Piano Ensemble: PR: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit.

MUN 3483 AS-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. Materials & Supply fee: $5.00

MUN 3713 AS-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. Materials & Supply fee: $8.00

MUN 3714 AS-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. Materials & Supply fee: $5.00

MUN 3717 AS-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.

MUN 3723 AS-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.

MUN 3813 AS-MUSIC 1(1,1)  
Steel Drum Ensemble: PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. Materials & Supply fee: $5.00

MUN 4476 AS-MUSIC 1(0,2)  
Early Music Ensemble: PR: C.I. Study and performance of pre-classical music. May be repeated for credit. Materials & Supply fee: $5.00

MUS 3050 AS-MUSIC 3(0,3)  
Opera Workshop: PR: C.I. Study of expressive emotion in relation to musical theatre; staging and performance of prepared studies of popular music for vocal ensembles. May be repeated for credit.

MUS 1010 AS-MUSIC 0(9,2)  
Music Forum: A series of special musical events required of music majors. Includes lectures and recitals by faculty, students, and guest artists. Graded S/U. May be repeated for credit.

MUS 1201 AS-MUSIC 1(1,0)  
European Diction: A survey of French, German and Italian diction for music educators.

MUS 1952C AS-MUSIC 3(3,0)  
Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $10.00

MUS 2116 AS-MUSIC 2(1,1)  
Recording Techniques for Classical Music: PR: MUS 2320 or C.I. Concert hall recording techniques for classical music.

MUS 3503 AS-MUSIC 3(2,2)  
Introduction to Music Technology: PR: Music or Digital Media major or C.I. Utilization of computers and keyboards to acquire skills in MIDI sequencing, notation, CDs, and the Internet.

MUS 2360C AS-MUSIC 3(2,2)  
Music Post Production Techniques: PR: MUC 3311, MUC 4441, or MUC 4635C. Audio and video post production processes with the video recording format. Audio and multi-media technologies will be used in the synchronization of SMPTE time code.

MUS 4905 AS-MUSIC 1-4(1,4)  
Directed Experience: PR: C.I. and Junior standing. Special topics of study and/or research as determined by student/faculty consultation. May be repeated for credit.

MUS 4954 AS-MUSIC 0(1,0)  
Recital Performance II: PR: Senior level applied music and C.I. Public recital of 45 minutes to demonstrate performance skills. Graded S/U. May repeat one time.

MUS 5365 AS-MUSIC 3(3,0)  
Music and Technology: PR: Graduate status or senior standing, or C.I. The emergence of technology in music including MIDI, CD ROM, and the high-tech music classroom.

MUT 1002 AS-MUSIC 3(3,0)  

MUT 1004 AS-MUSIC 3(3,0)  
Fundamentals of Music I: Basic music theory and reading music at the keyboard.

MUT 1111 AS-MUSIC 2(2,1)  

MUT 1112 AS-MUSIC 2(2,1)  

MUT 1241 AS-MUSIC 1(0,2)  
Ear Training and Sight Singing IA: Aural and visual/oral comprehension of elements of music - rhythm, melody, harmony, form. Intended to be taken with MUT 1111.

MUT 1242 AS-MUSIC 1(0,2)  

MUT 2116 AS-MUSIC 2(2,1)  

MUT 2117 AS-MUSIC 2(2,1)  

MUT 2246 AS-MUSIC 1(0,2)  
Ear Training and Sight Singing IIIB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 2960</td>
<td>AS-MUSIC</td>
<td>0(1,0)</td>
<td>Ear-Training Proficiency Exam: PR: MUT 2247. Demonstration of basic skills in ear-training. Required of Music majors. May repeat one time. Graded S/U.</td>
</tr>
<tr>
<td>MUT 2961</td>
<td>AS-MUSIC</td>
<td>0(1,0)</td>
<td>Sight-Singing Proficiency Exam: PR: MUT 2247. Basic skills in sight-singing. Required of Music majors. May repeat one time. Graded S/U.</td>
</tr>
<tr>
<td>MUT 2962</td>
<td>AS-MUSIC</td>
<td>0(1,0)</td>
<td>Music Theory Proficiency Exam: PR: MUT 2117. Demonstration of basic skills in part-writing, visual analysis, counterpoint, instrumentation and form. Required for Music majors. May repeat one time. Graded S/U.</td>
</tr>
<tr>
<td>MUT 3170</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Jazz Theory I: PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242. Examine traditional harmony, melody, and rhythm.</td>
</tr>
<tr>
<td>MUT 3171</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Jazz Theory II: PR: MUT 3170. Continuation of Jazz Theory I, examining jazz harmony, melody, and rhythm.</td>
</tr>
<tr>
<td>MUT 3401</td>
<td>AS-MUSIC</td>
<td>3(3,0)</td>
<td>Counterpoint: PR: MUT 2117. Discuss, analyze, and write counterpoint exercises. 10th, 19th, and 20th scores will be examined.</td>
</tr>
<tr>
<td>MUT 3571</td>
<td>AS-MUSIC</td>
<td>3(3,0)</td>
<td>20th Century Musical Analysis: PR: MUT 2116 and MUT 2117 or equivalent. Overview of 20th century music, including musical compositions, techniques of musical analysis, and styles.</td>
</tr>
<tr>
<td>MUT 3622</td>
<td>AS-MUSIC</td>
<td>3(3,0)</td>
<td>Analytical Approaches to Musical Rhythm: PR: MUT 2117 or equivalent or C.I. Contemporary, cognitive, hypermetric, and projective approaches to musical rhythm, rhythm in dance, performance, and non-Western music.</td>
</tr>
<tr>
<td>MUT 3641</td>
<td>AS-MUSIC</td>
<td>2(0,2)</td>
<td>Jazz Improvisation I: PR: MUT 3171. Junior standing or C.I. Jazz improvisation with an emphasis on listening, harmony, arranging, and jazz forms. Melodic and harmonic dictation at the keyboard.</td>
</tr>
<tr>
<td>MUT 3642</td>
<td>AS-MUSIC</td>
<td>2(0,2)</td>
<td>Jazz Improvisation II: PR: MUT 3641 Junior standing or C.I. A continuation of Jazz Improvisation I.</td>
</tr>
<tr>
<td>MUT 4031</td>
<td>AS-MUSIC</td>
<td>1(1,0)</td>
<td>Review of Music Theory: PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit.</td>
</tr>
<tr>
<td>MUT 4344</td>
<td>AS-MUSIC</td>
<td>1(1,0)</td>
<td>Seminar in Music Arranging: Scoring for choral and instrumental ensembles.</td>
</tr>
<tr>
<td>MUT 5381</td>
<td>AS-MUSIC</td>
<td>3(3,0)</td>
<td>Arranging and Composing Music: PR: Satisfactory placement tests in theory, sight-singing, and ear training, and graduate status or senior standing or C.I. Arranging and composing music for instrumental and vocal ensembles. Some emphasis on compositional techniques of the 20th century.</td>
</tr>
<tr>
<td>MVB 1211</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Trumpet: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trumpet. Intended for non-music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1212</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>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.</td>
</tr>
<tr>
<td>MVB 1213</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Trombone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1214</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Baritone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in baritone. Intended for non-music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1215</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Tuba: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1411</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Trumpet I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1412</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1413</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1414</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 1415</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 2421</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Trumpet II: PR: MVB 1411 and competence determined by faculty jury. Continuation of MVB 1411. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 2422</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>French Horn II: PR: MVB 1412 and competence determined by faculty jury. Continuation of MVB 1412. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 2423</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Trombone II: PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 2424</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Baritone II: PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 2425</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Trombone III: PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 3431</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Trombone III: PR: MVB 2421 and competence determined by faculty jury. Continuation of MVB 2421. May be repeated for credit.</td>
</tr>
<tr>
<td>MVB 3432</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>French Horn III: PR: MVB 2422 and competence determined by faculty jury. Continuation of MVB 2422. May be repeated for credit.</td>
</tr>
</tbody>
</table>
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Type</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVK 4111</td>
<td>Piano</td>
<td>I</td>
<td>(1,1)</td>
<td>Major in music or consent of chairperson; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 1413</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Major in music or consent of chairperson; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 1800</td>
<td>Keyboard Class I</td>
<td>2(2,0)</td>
<td></td>
<td>Keyboard training for non-Music students with no prior keyboard training.</td>
</tr>
<tr>
<td>MVK 1801</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td></td>
<td>Piano skills in basic repertoire, sight-reading, harmonization, and transposition. Required of Music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 2121</td>
<td>AS-MUSIC</td>
<td>1(0,2)</td>
<td></td>
<td>Continuation of MVK 1111 or C.I. Not open to music majors whose major performing medium is piano.</td>
</tr>
<tr>
<td>MVK 2421</td>
<td>Piano II</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 2423</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Piano II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 3131</td>
<td>Class Piano III</td>
<td>1(0,2)</td>
<td></td>
<td>PR: MVK 1121 or C.I. Continuation of MVK 1121.</td>
</tr>
<tr>
<td>MVK 3431</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Piano III: PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 3433</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Piano IV: PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4141</td>
<td>AS-MUSIC</td>
<td>1(0,2)</td>
<td></td>
<td>Piano IV: PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4441</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Piano IV: PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4640</td>
<td>Piano Pedagogy I</td>
<td>1(0,0)</td>
<td></td>
<td>C.I. Methods, materials for teaching individuals and classes of children and adults beginning to intermediate levels; demonstration and observation of procedures. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4641</td>
<td>Piano Pedagogy II</td>
<td>1(0,0)</td>
<td></td>
<td>C.I. Continuation of MVK 4640. Emphasis on intermediate through advanced levels. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4960</td>
<td>Piano Proficiency Exam</td>
<td>0(1,0)</td>
<td></td>
<td>C.I. Demonstration of piano skills in basic repertoire, sight-reading, harmonization, and transposition. Required of Music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVP 5451</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td></td>
<td>Piano V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVP 5453</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td></td>
<td>Organ V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1216</td>
<td>AS-MUSIC</td>
<td>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.</td>
</tr>
<tr>
<td>MVS 1411</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1412</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Viola I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1413</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1414</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1415</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 1416</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2421</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2422</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 1412 and competence determined by faculty jury. Continuation of MVK 1412. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2423</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2424</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 1414 and competence determined by faculty jury. Continuation of MVK 1414. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2425</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 1415 and competence determined by faculty jury. Continuation of MVK 1415. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 2426</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 1416 and competence determined by faculty jury. Continuation of MVK 1416. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3431</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td></td>
<td>PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in cello. Intended for non-music majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3432</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3433</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 2422 and competence determined by faculty jury. Continuation of MVK 2422. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 3434</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td></td>
<td>PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit.</td>
</tr>
</tbody>
</table>
Bass III: PR: MVS 2424 and competence determined by faculty jury. Continuation of MVS 2424. May be repeated for credit.

MVS 3435 AS-MUSIC 2(1,1)
Harp III: PR: MVS 2425 and competence determined by faculty jury. Continuation of MVS 2425. May be repeated for credit.

MVS 3436 AS-MUSIC 2(1,1)
Guitar III: PR: MVS 2426 and competence determined by faculty jury. Continuation of MVS 2426. May be repeated for credit.

MVS 4441 AS-MUSIC 2(1,1)
Violin IV: PR: MVS 3431 and competence determined by faculty jury. Continuation of MVS 3431. May be repeated for credit.

MVS 4442 AS-MUSIC 2(1,1)
Viola IV: PR: MVS 3432 and competence determined by faculty jury. Continuation of MVS 3432. May be repeated for credit.

MVS 4443 AS-MUSIC 2(1,1)
Cello IV: PR: MVS 3433 and competence determined by faculty jury. Continuation of MVS 3433. May be repeated for credit.

MVS 4444 AS-MUSIC 2(1,1)
Bass IV: PR: MVS 3434 and competence determined by faculty jury. Continuation of MVS 3434. May be repeated for credit.

MVS 4445 AS-MUSIC 2(1,1)
Harp IV: PR: MVS 3435 and competence determined by faculty jury. Continuation of MVS 3435. May be repeated for credit.

MVS 4446 AS-MUSIC 2(1,1)
Guitar IV: PR: MVS 3436 and competence determined by faculty jury. Continuation of MVS 3436. May be repeated for credit.

MVS 4640 AS-MUSIC 2(2,0)
String Pedagogy: PR: Music major and C.I. Methods and materials for teaching string instruments in a small group or studio setting.

MVS 5451 AS-MUSIC 2(1,0)
Violin V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVS 5452 AS-MUSIC 2(1,0)
Viola V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVS 5453 AS-MUSIC 2(1,0)
Cello V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVS 5454 AS-MUSIC 2(1,0)
Bass V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVS 5455 AS-MUSIC 2(1,0)
Harp V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVS 5456 AS-MUSIC 2(1,0)
Guitar V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVW 1111 AS-MUSIC 1(0,1)
Class Voice: Class instruction in beginning voice. May be repeated for credit.

MVW 1411 AS-MUSIC 2(1,1)
Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1873 AS-MUSIC 1(0,1)

MVW 2322 AS-MUSIC 1(0,1)
Singing Broadway: PR: Concurrent enrollment in MVW 1411 or MVW 2421 or MVW 3431 or MVW 4441. Hearing and singing the American music called "Broadway." Students learn singing techniques utilizing principles of the Italian "Bel Canto" school. May be repeated for credit.

MVW 2421 AS-MUSIC 2(1,1)
Voice II: PR: MVW 1411 and competence determined by faculty jury. Continuation of MVW 1411. Major in music or consent of chair; audition. Private and class lessons. May be repeated for credit.

MVW 4640 AS-MUSIC 1(0,1)
Voice Pedagogy I: PR: C.I. Methods, materials for vocalists; teachers, conductors; voice production; diagnosis of problems and correction; demonstration and observation of teaching; beginning to intermediate levels. May be repeated for credit.

MVW 4641 AS-MUSIC 1(1,0)
Voice Pedagogy II: PR: C.I. Continuation of MVW 4640. Intermediate to advanced levels. May be repeated for credit.

MVW 5451 AS-MUSIC 2(1,0)
Voice V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVW 1211 AS-MUSIC 1(0,1)

MVW 1212 AS-MUSIC 1(0,1)

MVW 1213 AS-MUSIC 1(0,1)

MVW 1214 AS-MUSIC 1(0,1)

MVW 1215 AS-MUSIC 1(0,1)

MVW 1412 AS-MUSIC 2(1,1)
Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1413 AS-MUSIC 2(1,1)
Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1414 AS-MUSIC 2(1,1)
Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 2421 AS-MUSIC 2(1,1)
Flute II: PR: MVW 1411 and competence determined by faculty jury. Continuation of MVW 1411. May be repeated for credit.

MVW 2422 AS-MUSIC 2(1,1)
Oboe II: PR: MVW 1412 and competence determined by faculty jury. Continuation of MVW 1412. May be repeated for credit.

MVW 2423 AS-MUSIC 2(1,1)
Clarinet II: PR: MVW 1413 and competence determined by faculty jury. Continuation of MVW 1413. May be repeated for credit.

MVW 2424 AS-MUSIC 2(1,1)
Bassoon II: PR: MVW 1414 and competence determined by faculty jury. Continuation of MVW 1414. May be repeated for credit. Materials & Supply fee: $20.00

MVW 2425 AS-MUSIC 2(1,1)
Saxophone II: PR: MVW 1415 and competence determined by faculty jury. Continuation of MVW 1415. May be repeated for credit.

MVW 3431 AS-MUSIC 2(1,1)
Flute III: PR: MVW 2421 and competence determined by faculty jury. Continuation of MVW 2421. May be repeated for credit.

MVW 3432 AS-MUSIC 2(1,1)
Oboe III: PR: MVW 2422 and competence determined by faculty jury. Continuation of MVW 2422. May be repeated for credit.

MVW 3433 AS-MUSIC 2(1,1)
Clarinet III: PR: MVW 2423 and competence determined by faculty jury. Continuation of MVW 2423. May be repeated for credit.

MVW 3434 AS-MUSIC 2(1,1)
Bassoon III: PR: MVW 2424 and competence determined by faculty jury. Continuation of MVW 2424. May be repeated for credit.

MVW 3435 AS-MUSIC 2(1,1)
Saxophone III: PR: MVW 2425 and competence determined by faculty jury. Continuation of MVW 2425. May be repeated for credit.

MVW 3630 AS-MUSIC 2(2,0)
Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles.

MVW 4441 AS-MUSIC 2(1,1)
Flute IV: PR: MVW 3431 and competence determined by faculty jury. Continuation of MVW 3431. May be repeated for credit.
ship between client characteristics, client health care provider interactions and health care outcomes in the elderly.

NGR 5635 HPA-NURS 3(3,0) Transdisciplinary and Community-Based Strategies of Health Professionals: PR: Graduate standing or C.I. A study of healthcare issues and strategies encountered by speech-language pathologists and nurse practitioners when promoting transdisciplinary and collaborative interactions.

NGR 5637 HPA-NURS 3(3,0) Advanced Practice Nursing in Rural Settings: PR: Graduate student in COHPA. Focus is on advanced practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness.

NGR 5638 HPA-NURS 3(3,0) Health Promotion: PR: Baccalaureate degree or C.I. Examination and analysis of concepts, theories, research evidence, clinical assessment and interventions for health promotion and wellness.

NGR 5660 HPA-NURS 3(3,0) Health Disparities: Issues and Strategies: PR: Graduate standing. Explores disparities in access, utilization, services, outcomes, and status for different US populations: data, research, programmatic issues; and strategies to close the gaps.

NGR 5714 HPA-NURS 3(3,0) Clinical Teaching Strategies for Health Professional Education: PR: EDG 6238 or Teaching Strategies for Health Professionals, or C.I. in depth of the development, implementation, and evaluation of clinical education programs for health profession students. May be repeated for credit.

NGR 5715 HPA-NURS 3(3,0) Instructional Technology Resources for Health Professional Education: PR: EDG 6238, Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources.

NUR 1015 HPA-NURS 3(3,0) Nursing as a Profession: Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care.

NUR 3026L HPA-NURS 1(0,2) Therapeutic Interventions for Health Professionals: PR: Admission to Nursing Program. Theoretical rationale and psychomotor development for therapeutic interventions in nursing practice. Graded S/U. Materials & Supply fee: $45.00

NUR 3065 HPA-NURS 2(2,0) Health Assessment: PR: or C.I. NUR 3065L, and admission to the School of Nursing or C.I. Critical examination of physiological and pathophysiological mechanisms affecting individuals.

NUR 5195C HPA-NURS 3(2,1) International Perspectives of Global Health: PR: Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation's health care systems.

NUR 5252 HPA-NURS 3(3,0) Psycho-Social Factors and Health Care Outcomes in the Elderly: PR: Post-baccalaureate or graduate status or C.I. Interdisciplinary perspective to examine the relation-
NUR 3167 HPA-NURS 1(2,0)
Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the SON. NUR 3065, NUR 3065L, NUR 3129. Accelerated study to determine research needs and problems in health care in the community. Graded S/U. Materials & Supply Fee: $45.00

NUR 3235 HPA-NURS 5(5,0)
Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. level first semester courses or C.I. Biopsychosocial nursing interventions in physical and mental health problems with emphasis on family-centered care in the community.

NUR 3235L HPA-NURS 4(0,4)
Clinical Practice in Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. level first semester courses or C.I. Clinical application of biopsychosocial nursing interventions in physical & mental health problems with emphasis on family-centered care in the community. Graded S/U. Materials & Supply Fee: $45.00

NUR 3616 HPA-NURS 3(3,0)
Promoting Healthy Families Across the Lifespan: PR: Florida RN status; CR: NUR 3065. Examination of the role and function of the professional nurse, including professional standards, legal and practice issues.

NUR 3616L HPA-NURS 3(0,3)
Clinical Practice in Promoting Healthy Families: PR: Admission to the School of Nursing. Clinical experiences directed toward primary care nursing practice with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood and aging.

NUR 3637 HPA-NURS 5(5,0)
Accelerated Promoting Healthy Families and Communities: PR: Admission to the Accelerated Second Degree BSN Option; NUR 3065, NUR 3065L, NUR 3825, NUR 3637L. Application of concepts and family and community nursing as it relates to health across the lifespan including childbearing, childrearing, childhood, adulthood, and aging.

NUR 3637L HPA-NURS 2(0,2)
Accelerated Clinical Practice in Promoting Healthy Families and Communities: PR: Admission to the Accelerated Second Degree BSN option; Coreqs: NUR 3637, NUR 3026L, NUR 3825, NUR 3637L. Application of concepts and family and community nursing as it relates to health across the lifespan including childbearing, childrearing, childrearing, adulthood, and aging. Graded S/U. Materials & Supply Fee: $40.00

NUR 3795 HPA-NURS 3(3,0)

NUR 3805 HPA-NURS 3(3,0)
Transitions Concepts in Nursing I: PR: Florida RN status. Exploration of issues and theories related to professional nursing practice to facilitate transition of RN to baccalaureate level of nursing practice.

NUR 3806 HPA-NURS 1(1,0)
Professional Socialization Seminar: PR: NUR 3065 and C.I. Application of library utilization and professional writing skills, critical thinking and stress management principles to the beginning role of the professional nurse.

NUR 3825 HPA-NURS 2(2,0)
The Role of the Professional Nurse: PR: Admission to the School of Nursing. Examination of the role and function of the professional nurse, including professional standards, legal and practice issues.

NUR 3826H HPA-NURS 3(3,0)

NUR 3836 HPA-NURS 2(2,0)
International Perspectives of Nursing and Health Care: CR: NUR 3065, NUR 3165. Exploration of nursing and health care systems in the United States and selected countries. May be repeated for credit

NUR 4084 HPA-NURS 3(3,0)
Transitional Concepts in Nursing II: PR: NUR 3805, NUR 3065, NUR 3165. Exploration of knowledge from basic Registered Nurse programs and continuation of study from NUR 3805.

NUR 4196 HPA-NURS 3(3,0)
Acute Care: Critical Care Nursing: CR: NUR 4945L, NUR 4829, NUR 3805. Application of decision making process.

NUR 4257 HPA-NURS 3(3,0)
Introduction to Critical Care Nursing: PR: RN status and C.I. Theories and principles of comprehensive nursing care of individuals and families in critical care settings.

NUR 4286 HPA-NURS 3(3,0)
Gerontologic Nursing: PR: NUR 4286 or RN status and C.I. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings.

NUR 4525 HPA-NURS 2(2,0)
Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness.

NUR 4525L HPA-NURS 1(1,0)
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. Materials & Supply Fee: $15.00

NUR 4636 HPA-NURS 3(3,0)
Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. Fall courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care.

NUR 4636L HPA-NURS 2(0,2)
Clinical for Community as the Continuum of Care: PR: Completion of all Jr. level Fall and Spring 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. Materials & Supply Fee: $45.00

NUR 4639 HPA-NURS 2(2,0)
Accelerated Community as a Continuum of Care: PR: UCF Courses and Descriptions
### NUR 4838L HPA-NURS 2(0,2)
**Directed Practicum in Nursing Administration:** CR: NUR 5720. Clinical practice in an area of nursing administration. Graded S/U.

### NUR 4905C HPA-NURS Variable
**Nursing Independent Study:** PR: NUR 4756C. An opportunity for in-depth study in an area of special interest to the student.

### NUR 4906 HPA-NURS Variable
**Nursing Independent Study:** Directed Study.

### NUR 4907H HPA-NURS 3(3,0)
**Directed Reading/Research-Honors:** PR: Permission of Honors and admission to major. The student will review and synthesize literature on a selected topic in preparation for the Honors Thesis or Project.

### NUR 4930 HPA-NURS 3(3,0)
**Health Issues in Minority and Special Populations:** PR: Nursing Majors/Junior Level, or C.I. Identify and critically analyze structural and socio-cultural factors that influence the health of minorities and special populations.

### NUR 4934 HPA-NURS 3(3,0)
**Holistic Nursing:** Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes.

### NUR 4936 HPA-NURS 3(3,0)
**Women's Health Issues:** PR: ENC 1102. Junior standing, or C.I. Factors and conditions impacting the health of women. May be repeated for credit.

### NUR 4942 HPA-NURS 3(0,9)
**Selected Nursing Practicum:** PR: NUR 4756C and 4758C. An opportunity for an in-depth clinical study in an area of special interest to the student. Graded S/U.

### NUR 4945L HPA-NURS 4(0,4)
**Directed Nursing Practice:** PR: RN status, or C.I. CR: NUR 4827, NUR 4828. In-depth study of one area of clinical nursing practice. Graded S/U.

### NUR 4971H HPA-NURS 3(3,0)
**Thesis or Project Works-Honors:** PR: Permission of Honors. This course provides students with faculty mentoring through the process of writing and defending the Honors Thesis or Project.

### OCE 3008 AS-BIOL 3(3,0)
**Oceanography:** PR: ESC 2010C, CHM 2045C, and CHM 2046. Biological, physical and chemical oceanography.

### OSE 3490 OPT-OPT 3(3,0)
**Nanophotonics:** PR: PHY2049 or C.I. Optical/photonic processes on nano scale and interactions with elements of physics & engineering.

### OSE 5041L ECS-ECE 3(1,4)
**Introduction to Wave Optics:** PR: EEL 4440 or PHY 4424 or C.I. Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves.

### OSE 5051L ECE-ECE 3(1,4)
**Electro-Optics Laboratory:** PR: EEL 4440 or OSE 5041 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics.

### OSE 5111 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.

### OSE 5115 AS-PHYS 3(3,0)
**Interference and Diffraction:** PR: Graduate status or senior standing, or C.I. interference of light, optical inter- ferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.

### OSE 5143 ECS-ECE 3(3,0)
**Fiber Optics Communication:** PR: EEL 3552C, EEL 3470. Use of Fiber Optics as a communication channel. Principles of Fiber optics, Mode theory, transmitters, modulators, sensors detectors and demodulators.

### OSE 5203 OPT-OPT 3(3,0)
**Fundamentals of Applied Optics:** PR: Graduate standing or C.I. Fundamentals of Geometrical Optics, Geometrical Theory of Image Formation, Optical System Layout, Radiometry.

### 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.

### 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.

### 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.

### OSE 5414 ECS-ECE 3(3,0)
**Fundamentals of Optoelectronic Devices:** PR: Graduate standing or C.I. Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices.

### OSE 5421 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.

### OSE 5511 AS-PHYS 3(3,0)
**Laser Principles:** PR: PHY 3101, MAP 2302, PHY 4424, graduate status or senior standing, or C.I. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems.

### OSE 5630C ECS-ECE 3(2,1)
**Thin Film Optics:** PR: PHY 4424 or EEL 4440 and OSE 5041 or OSE 5630C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems.

### 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.
nomic development strategies, with an emphasis on effective policy setting and planning.

**PAD 4325** HPA-PUB 3(3,0) Program Evaluation for Public and Non-Profit Organizations: PR: PAD 3003 or C.I. To develop an understanding of program evaluation and to apply the process by developing a program evaluation for a program.

**PAD 4331** HPA-PUB 3(3,0) Land Use and Planning: PR: PAD 3330 or CI. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl.

**PAD 4334** HPA-PUB 3(3,0) Urban Design: PR: PAD 3330 or CI. Theories and concepts of the physical, cultural, social and financial factors associated with urban design.

**PAD 4351** HPA-PUB 3(3,0) Issues in Environmental Program Management: The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects.

**PAD 4390** HPA-PUB 3(3,0) Hazard Mitigation: PR: PAD 3003 or Junior Standing and CI. Specialized knowledge and skills necessary to develop a proactive hazard mitigation plan to reduce the effects of natural and technological disasters.

**PAD 4392** HPA-PUB 3(3,0) Managing Public Emergencies: PR: PAD 3003 or CI. After a public emergency, a variety of services must be provided to the victims. This course reviews and analyzes coordination and management of these services.

**PAD 4393** HPA-PUB 3(3,0) Emergency Management & Disaster Planning: PR: PAD 3003 or CI. Emergency Management and Disaster Planning on events most likely to affect Florida including reviewing the four phases of Planning, mitigation, response, and preparedness.

**PAD 4395** HPA-PUB 3(3,0) Disaster Response and Recovery: PR: PAD 3003 or Junior Standing and CI. Individual, group, organizations and community behavior and recovery from disasters. Service delivery strategies are highlighted and complex dynamics of the recovery process are emphasized.

**PAD 4414** HPA-PUB 3(3,0) Public Personnel Administration: The history, operating components, structural characteristics, and increasing impact of laws and related sanctions on personnel practices of public agencies.

**PAD 4446** HPA-PUB 3(3,0) Multiculturalism in Public Administration: PR: PAD 3003 or CI. This course is designed to help public managers examine public and personal attitudes and values, ethical dilemmas, and social consequences related to issues of diversity.

**PAD 4461** HPA-PUB 3(3,0) Reengineering Government: PR: PAD 3003. Acquaint undergraduate students with the latest thinking on improving the effectiveness and efficiency of public organizations via reengineering.

**PAD 4616** HPA-PUB 3(3,0) Privatization: PR: PAD 3003 or CI. Analysis of the process of privatizing existing governmental services, including privatization decision, creation of RFP or ITB, contract award and contract management.

**PAD 4712** HPA-PUB 3(3,0) Information Systems for Public Managers and Planners: PR: PAD 3330 or CI. Knowledge and skills concerning information technologies important for planners and public managers, including use of GIS to manipulate and analyze spatial data.

**PAD 4720** HPA-PUB 3(3,0) Survey Research in Public Administration: Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector.

**PAD 4803** HPA-PUB 3(3,0) Issues in Urban Administration: To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context.

**PAD 4941** HPA-PUB 3-6(0,6) Public Administration Internship: PR: C.I. Internship in municipal, county, state, or federal government, including assignments in such fields as personnel, planning, budget, and fiscal, procurement, and public safety. Graded S/U.

**PAD 5041** HPA-PUB 3(3,0) Ethics and Values in Public Administration: Examination of ethics in the public sector. Public concerns, past patterns, and individual/social aspects of ethical behavior are explored.

**PAD 5142** HPA-PUB 3(3,0) Nonprofit Organizations: PR: Admission to certificate program or CI. Overview of nonprofit management, including history, governance structures, criteria used to establish nonprofit status, range of organizations, and application of management theory.

**PAD 5145** HPA-PUB 3(3,0) Volunteerism in Nonprofit Management: PR: Admission to certificate program or CI. Human resource development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues.

**PAD 5146** HPA-PUB 3(3,0) Nonprofit Resource Development: PR: Post-bac status or CI. Examines human resource development and financial resource development in nonprofit organizations including management issues.

**PAD 5336** HPA-PUB 3(3,0) Introduction to Urban Planning: Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning.

**PAD 5337** HPA-PUB 3(3,0) Urban Design: Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design.

**PAD 5338** HPA-PUB 3(3,0) Land Use and Planning Law: Review of rational and local aspects of the legal underpinnings of urban planning such as zoning, growth management, and environmental regulation.

**PAD 5356** HPA-PUB 3(3,0) Managing Community and Economic Development: PR: graduate standing or CI. Overview of economic development activities focusing on policy and managerial issues at the local level.

**PAD 5425** HPA-PUB 3(3,0) Dispute Resolution in the Public Sector: An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods.
function of both procaryotic and eucaryotic genes. C.I. The general principles governing the structure and apy.

C.I., and consent of Honors. Basic principles of heredity as applied to prokaryotes and eucaryotes with honors con-
tent. PCB 3063L AS-BIOL 1(0,3) Genetics Laboratory: PR: PR or CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics. Materials & Supply 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 ther-
apy.

PCB 3233L BCBS-M&M 1(0,3) Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology. Materials & Supply fee: $20.00

PCB 3301C AS-BIOL 4(3,4) Aquatic Biology: PR: BSC 2010C and BSC 2011C, or C.I. Plant and animal components of freshwater environ-
ments. Materials & Supply fee: $20.00

PCB 3304C AS-BIOL 4(2,4) River Ecology: PR: BSC 2011C or C.I. Ecology, limno-
logy, and conservation of rivers with special emphasis on Florida water systems.


PCB 3355C AS-BIOL 2(1,1) Tropical Marine Biology: PR: BSC 2010C and BSC 2011C or C.I. Intensive, one week field course at an insti-
tute of marine science. Diving/snorkeling will be used extensively to study organisms on pristine coral reefs.

PCB 3442 AS-BIOL 3(3,0) Florida Aquatic Ecology: PR: BSC 2010C and BSC 2011C, or C.I. An introduction to aquatic ecology of Florida with emphasis on ponds, lakes, streams, and rivers.

PCB 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.

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. Materials & Supply fee: $35.00

PCB 3703H BCBS-M&M 4(3,3) Human Physiology Honors: PR: BSC 2010, CHM 2046 and consent of Honors College. The physiology and inter-
relationships of organ systems of the human body. With honors level content.

PCB 4239 BCBS-M&M 3(3,0) Molecular Immunology: PR: PCB 3522. Advanced understanding of the workings of the immune system, cor-
relating cellular and molecular mechanisms with clinical cases.

PCB 4302C AS-BIOL 4(3,4) Physiochemical Limnology: PR: BSC 2010C and BSC 2011C, or C.I. Limnology and methods for freshwater ecol-
ogy, with respect to physical, and chemical parameters. Materials & Supply fee: $15.00


PCB 4353 AS-BIOL 3(3,0) Florida Natural History: PR: BSC 2010C and BSC 2011C, or C.I. Florida’s ecology, past and present flora and fauna, and naturalists who visited the state.

PCB 4524 BCBS-M&M 3(3,0) Molecular Biology II: PR: PCB 3522. The processes reg-
ulating gene function in procaryotes and eucaryotes; spe-
cialized genetic aspects underlying multi-cellular exist-
ence; DNA evolution.

PCB 4524H BCBS-M&M 3(3,0) Molecular Biology II-Honors: PR: Permission of Honors and PCB 3522. Same as PCB 4525 with honors level con-
tent

PCB 4529 BCBS-M&M 3(3,0) Experimental Molecular Biology: PR: PCB 3522, CR:
PCB 4524. Facilitation of experimental data that leads to the development and understanding of the underlying prin-
ciples of molecular biology.

PCB 4683 AS-BIOL 4(4,0) Population Biology and Evolution: PR: PCB 3044 and PCB 3063 or equivalents. Demographic and genetic struc-
ture of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals.

PCB 4683L AS-BIOL 1(0,2) Population Biology and Evolution Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. Materials & Supply fee: $10.00

PCB 4723 AS-BIOL 4(4,0) Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology.

PCB 4805 BCBS-M&M 3(3,0) Endocrinology: PR: PCB 3703C or equivalent; CHM 3211. Mechanisms of action of hormones; interrelationship between the nervous and endocrine systems.

PCB 5045C AS-BIOL 4(3,2) Conservation Biology: PR: PCB 3044 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endan-
gered species. Weekend field trips are required. Materials & Supply fee: $15.00

PCB 5107C AS-BIOL 4(3,2) Advanced Cell Biology: PR: PCB 3063 and PCB 3023, graduate status or senior standing, or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein target-
ing, cytoskeleton, signalling and cell cycle. Materials & Supply fee: $15.00

PCB 5108 AS-BIOL 4(4,0) Concepts in Plant Cell Biology: PR: PCB 3023 and PCB 3063 or graduate standing or C.I. Plant cell biology, includ-
ing cytoskeletal dynamics, cell signalling, cell cycle regula-
tion, protein targeting and organishe structure and function.

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.

PCB 5239 BCBS-M&M 3(3,0) Tumor Biology: PR: PCB 4524. A course designed to pro-
vide an introduction and broad overview of the current knowledge and research in the field of cancer biology.

PCB 5256C AS-BIOL 4(3,2) Advanced Developmental Biology: PR: PCB 3063 and ZOO 4603C or equivalent, graduate status or senior stand-
ing, or C.I. Lecture and literature review of emerging areas in plant and animal developmental biology Materials & Supply fee: $15.00

PCB 5275 BCBS-M&M 3(3,0) Signal Transduction Mechanisms: PR: PCB 3522 and PCB 4524. A course emphasizing various signal transduc-
tion cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur.

PCB 5326C AS-BIOL 5(3,2) Ecosystems of Florida: PR: PCB 3044, PCB 3046L or equivalent, and graduate status or senior standing or C.I. Ecosystems of Florida will be discussed to include geog-
raphy, geology, climate, energetics, nutrient cycling, com-
munity structure and conservation. Materials & Supply fee: $15.00

PCB 5328C AS-BIOL 4(3,2) Landscape Ecology: PR: PCB 3044, STA 2023, graduate status or senior standing, or C.I. Influence of spatial hetro-
erogenity on ecological processes. Emphasizes quantita-
tive methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics. Materials & Supply fee: $15.00

PCB 5435C AS-BIOL 4(2,6) Marine Ecology of Florida: PR: BSC 4312C, graduate status or senior standing, or C.I. Survey of experimental methods used in the study of marine communities in cen-
tral and southern Florida, combining field manipulation and readings from primary literature. Materials & Supply fee: $45.00

PCB 5480C AS-BIOL 4(3,2) Quantitative Conservation Biology: PR: MAC 2511, PCB 3044, STA 2014C or C.I. Current methods of data analysis and modeling to evaluate biological population dynamics. May be repeated for credit one time.

PCB 5485 AS-BIOL 3(3,0) Models in Ecology: PR: PCB 3044, MAC 2311 (or equiva-
 lent), and graduate status or senior standing or C.I. A sur-
vey of how simulation models are applied to ecological questions of both a theoretical and managerial nature. Materials & Supply fee: $15.00

PCB 5556 AS-BIOL 3(3,0) Conservation Genetics: PR: PCB 3063 and PCB 4683, Applications of genetic models to the understanding and conservation of animal and plant populations. Materials & Supply fee: $15.00

PCB 5665C AS-BIOL 4(3,2) Human Genetics: PR: PCB 3063, graduate status or sen-
ior standing, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species. Materials & Supply fee: $15.00

PCB 5677 AS-BIOL 3(3,0) Molecular Evolution: PR: PCB 3063 and PCB 4683C, graduate status or senior standing, or C.I. Provides an overview of molecular methods currently used to analyze diversity within and among species.

PCO 4203 AS-PHYC 4(3,2) Interviewing and Counseling: PR: PSY 2012, PPE 3003, CLP 3143 and C.I. A review of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and
counseling procedures.

PEL 2011 ED-TLP 2(1,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEL 2111 ED-TLP 2(1,1)
Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals.

PEL 2112 ED-HSW 2(1,1)
Intermediate Bowling: PR: PEL 2111, bowling experience, or average of 140 verification by league sheet. This course provides in-depth information that is necessary for the development of high bowling averages.

PEL 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.

PEL 2122 ED-TLP 2(1,1)
Intermediate Golf: PR: PEL 2121 or equivalent competency. Performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

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.

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.

PEL 2640 ED-TLP 2(1,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEM 2101 ED-TLP 2(1,1)
Body Development: An in-depth study of individual physical (musculo-skeletal, neuromuscular, cardiorespiratory) fitness. Emphasis on individual diagnosis, principles, procedures, and conduct of related exercise programs.

PEM 2104 ED-TLP 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.

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.

PEM 2131 ED-TLP 2(1,1)
Strength Resistance Training: Study of fitness and strength development through resistance exercise.

PEM 2171 ED-TLP 2(1,1)
Aerobics: Appropriate rhythmic muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate.

PEM 2173 ED-TLP 2(1,1)
Step Aerobics: Appropriate rhythmic muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down.

PEM 2175 ED-TLP 2(1,1)
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.

PEM 2405 ED-TLP 3(2,1)
Self Defense for Women and Men: Designed to provide students with self defense skills.

PEM 2443 ED-TLP 2(1,2)
Tae Kwon Do: An analysis and application of the martial arts, as part of an overall physical and mental training system.

PEM 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.

PEN 1121 ED-TLP 2(1,1)
Elementary Swimming: For non-swimmers and beginning swimmers. Development and study of techniques in the basic skills of water safety and swimming.

PEO 2011 ED-TLP 3(2,1)
Team Sports: PR: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate team sports as part of the Physical Education program. Materials & Supply fee: $5.00

PEO 2031 ED-TLP 3(2,1)
Individual Sports and Leisure Activities: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate individual sports and leisure activities in physical education program. Materials & Supply 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.

PEO 3041 ED-TLP 3(3,0)
Games Analysis: PR: Admission to Physical Education program and Jr. Standing or C.I. Teaching methodology utilizing games for specific outcome behaviors in grades K-12.

PEO 3324 ED-TLP 3(2,1)
Coaching Volleyball: Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies.

PEO 3644 ED-TLP 3(2,1)
Coaching Football: Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies.

PEO 5645C ED-TLP 3(2,1)

PET 3205 ED-TLP 3(2,1)
Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics.

PET 2622C ED-TLP 3(2,1)
Human Injuries: PR: Biomechanics or C.I. The prevention, identification, care, and rehabilitation of human injuries.

PET 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.

PET 3137 ED-TLP 3(3,0)
Concepts & Practices in Sports and Fitness: PR: Admission to the program or C.I. Examination of concepts and practices in sports and fitness.

PET 3214 AS-PSYCH 3(3,0)
Sports Psychology: A review of principles of psychology related to the enhancement of satisfaction and performance in sports.

PET 3361 ED-TLP 3(3,0)
Nutrition for Sports and Fitness: PR: ZOO 3736C or C.I. Study of nutrition with focus on the strategies designed to meet nutrient demands for physical activity, exercise, and athletic performance in sports and fitness.

PET 3348 ED-TLP 3(3,0)
Public Relations in Sports and Fitness: PR: Admission to program or C.I. Functions and responsibilities of a public relations professional or department and the interaction with the public and media representatives with specific application to sports and fitness professionals.

PET 3349 ED-TLP 3(3,0)
Public Relations in Sports and Fitness: PR: Junior standing or C.I. An exploration into ethics and its influence on sports.

PET 3620C HPA-HP 3(2,2)

PET 3623C HPA-HP 3(2,2)
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.

PET 3670C HPA-HP 4(0,6)
Practicum in Athletic Training I: PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer.

PET 3671C HPA-HP 4(0,8)
Practicum in Athletic Training II: PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer.

PET 3740C ED-TLP 2(1,1)
Teaching Physical Education in the Secondary and Middle School (6-12): PR: Admission to Junior Block, or C.I. Curricular and instructional considerations for teaching secondary and middle school physical education.

PET 3765 ED-TLP 3(3,0)
Coaching Theory: PR: Admitted to COE or C.I. Theories of coaching team and individual sports

PET 3776 ED-TLP 3(3,0)
Fitness and Conditioning Concepts: PR: ZOO 3736C or C.I. The integration of advanced components of muscular strength training and endurance conditioning for the sports and fitness professional.

PET 3940 ED-HSW 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.

PET 3941. ED-IP 6(0.16)
Internship I: PR: Senior standing. EDG 4323. Satisfactory completion of the portfolio. Internship assignment under a certified physical education teacher. Half in elementary, half in secondary.

PET 4002. ED-TLP 3(1.2)
Outdoor and Leisure Activities: Study of contemporary outdoor and leisure activities. Course will include but not be limited to the "adventure activity curriculum," camping, water activities, fishing, orienteering, hiking.

PET 4050C. ED-TLP 3(2.1)
Motor Development and Learning: PR: PE Junior standing. An analysis of the theories and factors influencing the motor development of children and the learning of gross and fine motor skills.

PET 4083C. ED-TLP 4(3.1)
Practical Fitness Training: PR: PET 4312, PET 4315, PET 2622C, PET 4550, PEM 2171. An in-depth study into fitness-related concepts as they are applied to individuals and groups.

PET 4215. ED-TLP 3(3.0)
Motivational Aspects of Athletic Performance: PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athlete performance.

PET 4312. ED-TLP 3(2.1)
Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement.

PET 4315C. HPA-HP 3(2,2)
Biomechanics of Sport: PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries.

PET 4351. ED-CFCS 3(2,1)
Applied Exercise and Human Physiology: An in-depth study of metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport.

PET 4401. ED-TLP 3(3.0)
Administration and Evaluation in Physical Education: This course is designed to address administrative, measurement and evaluation considerations of physical education programs.

PET 4491. ED-TLP 3(3.0)
Legal Issues in Sports and Fitness: PR: Admission to program or C.I. Examination of the legal issues and problems encountered by sports and fitness professionals.

PET 4550. ED-TLP 3(2.1)
Fitness Assessment: PR: ZOO 3736C or C.I. A study and acquisition of health related fitness, exercise strategies and related assessment techniques.

PET 4603. HPA-HP 3(3.0)
Introduction to Sports Medicine: A comprehensive study of care of sports injuries, including instruction in attitudes, health and conditioning in sports participants. Materials & Supply fee: $32.50.

PET 4604. HPA-HP 3(3.0)
Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries.

PET 4606. HPA-HP 3(3.0)
Applied Fitness in Sport: PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics.

PET 4624C. HPA-HP 3(2,2)
Recognition and Evaluation of Athletic Injuries I: PR: PET 3620C and PET 3650C. Recognition and evaluation skills required to perform an injury assessment of the lower extremity, spine, and general medical conditions and provision of immediate management.

PET 4625. ED-TLP 3(3.0)

PET 4630C. HPA-HP 4(2,4)
Therapeutic Exercise in Athletic Training: PR: PET 3623C. Rehabilitation processes regarding exercise progression for athletic injury.

PET 4632C. HPA-HP 4(2,4)
Therapeutic Modalities in Athletic Training: PR: PET 4624C. Principles and techniques for applying therapeutic modalities.

PET 4640. ED-TLP 3(3.0)
Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed.

PET 4660C. HPA-HP 3(3.0)
Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession.

PET 4672C. HPA-HP 4(0,8)
Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

PET 4673C. HPA-HP 4(0,8)
Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

PET 4674. HPA-HP 1(1,0)

PET 4710. ED-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.

PET 4724. ED-TLP 3(3.0)
Development and History of Physical Education Curriculum: A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs.

PET 4763. ED-HSW 3(3,0)
Coaching Methods and Principles: PR: Junior standing, Coaching minor or C.I. Assist students in understanding and conceptually integrating teaching methods/coaching strategies with emphasis given to conditioning and leadership styles.

PET 4823. ED-HSW 3(3,0)

PET 4925. ED-TLP 3-6(0,16)
Sports and Fitness Practicum I: PR: Overall GPA of 2.5 and completion of 2/3 of the Sports and Fitness program requirements. Field experience in a sports and fitness related organization.

PET 4926. ED-TLP 9-12(0,35)
Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business.

PET 4943. ED-TLP 12(0,35)
Internship II: PR: Must have completed course work in specialization. Satisfactory completion of the portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded SI.

PET 4945. ED-IP 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.

PET 5355. ED-TLP 3(3,0)
Exercise and Health: PR: Admission to Master's Program or C.I. Program. Will provide educators an in-depth understanding of energy pathways, neuromuscular, cardiovascular, and respiratory systems during exercise. Emphasis on understanding principles of exercise adaptation and applying those principles to fitness/wellness settings.

PET 5405. ED-CFCS 3(3,0)
Introduction to Sports Administration: PR: C.I. This course will provide an overview of the sports industry. Fundamental leadership administration and research theories as well as information on current issues are emphasized.

PET 5465. ED-CFCS 3(3,0)
Financial Issues in Sports and Fitness: PR: C.I. Examines basic financial concepts including understanding annual reports, developing budgets, financial analysis, and examining methods for increasing revenue and controlling cost in the sport industry.

PET 5466. ED-CFCS 3(3,0)
Marketing and Promoting Sports and Fitness Programs: PR: C.I. Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events.

PET 5635. ED-TLP 3(3,0)
Advanced Human Injuries: PR: PET 2622C or C.I. The application of medical knowledge to sport with the emphasis on preserving the health of an athlete before, during and after performance.

PET 5766. ED-TLP 3(3,0)

PET 5931. ED-TLP 3(3,0)
Current Issues and Trends in Physical Education and Sport: PR: Admission to the Physical Education Graduate Program or C.I. Examination of the current issues and trends encountered by professionals in physical education and sport.

PGY 2401C AS-ART 3(3,2)
Beginning Photography: PR: ART 2201C, ART 2300C or C.I. Introduction to photography with an art emphasis. Materials & Supply fee: $45.00.

PGY 3410C AS-ART 3(3,2)
Intermediate Photography: PR: ART 2201C, ART
PHI 3700 AS-PHIL 3(3,0) American Philosophy: PR: PHI 2010 or AMH 2010 or AMH 2020 or C.I. A thematic and chronological survey of philosophical, religious, and scientific developments in American thought, with primary focus on the American spirit of individualism and reform.

PHI 3701 AS-PHIL 3(3,0) Native American Philosophy: PR: PHI 3700 or C.I. Academic: Native American philosophy in epistemology, political philosophy and environmental studies.

PHI 2010 AS-PHIL 3(3,0) Introduction to Philosophy: Inquiry into the meaning and justification of fundamental ideas and beliefs concerning reality, knowledge, and values; application to relevant topics in ethics, religion, and politics.

PHI 2010H AS-PHIL 3(3,0) Honors Introduction to Philosophy: PR: Permission of Honors. Same as PHI 2010 with honors-level content.

PHI 2011 AS-PHIL 3(3,0) Philosophical Reasoning: A study of reasoning in philosophy: the role of inconsistency, infinite regress arguments, modeling, and systems building, discovery procedures, diagonalization, and contract paradigm case arguments.

PHI 2101 AS-PHIL 3(3,0) Formal Logic I: A study of sentence and predicate logics, with introduction to modal, epistemic, deontic, multi-valued, and indeterministic logics.

PHI 2108 AS-PHIL 3(3,0) Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action.

PHI 2630 AS-PHIL 3(3,0) Ethics: An examination of the nature of moral problems, judgements and principles, with emphasis on recent formulations in ethical theory.

PHI 2647 AS-PHIL 3(3,0) Logic and Ethics: PR: PHI 2101 or COT 3100 or MAD 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics.

PHI 3022 AS-PHIL 3(3,0) Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2101, or C.I. An examination of the relationship between means and ends and how they define one another.

PHI 3033 AS-PHIL 3(3,0) Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A multicultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment.

PHI 3083 AS-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.

PHI 3320 AS-PHIL 3(3,0) Philosophy of Mind: PR: PHI 2010, PSY 2012, or C.I. Recent and contemporary attempts to understand the relation of mind to body, the relation of consciousness to personhood, and the relation of psychology to neurobiology.


PHI 3451 AS-PHIL 3(3,0) Philosophy of Psychology: PR: Junior standing or C.I. Philosophical assumptions and foundations of major psychological movements plus other philosophically interesting issues.

PHI 3601 AS-PHIL 1(1,0) Practical Wisdom: A radio course in applied ethics which focuses on the human good, dealing with the relationship between means and ends and how they define one another.

PHI 3625 AS-PHIL 3(3,0) Virtual Ethics: PR: COP 3502C or DIG 2000 or C.I. Ethics of virtual worlds as contrasted to the physical world, the use of simulation, virtual environments, and modeling in philosophy, especially in ethics.

PHI 3626 AS-PHIL 3(3,0) Advanced Ethics in Science and Technology: PR: COP 3502C or DIG 2000 or PHI 2647. Critical thinking applied to ethics in science and technology.

PHI 3629 AS-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 relationship and caregiving.

PHI 3638 AS-PHIL 3(3,0) Ethical Issues in the 21st Century: PR: PHI 2010 or C.I. Applications of ethical theory and moral problem-solving to contemporary issues.

PHI 3640 AS-PHIL 3(3,0) Environmental Ethics: PR: Junior standing. Major contemporary views in environmental ethics, including individual and holistic approaches, deep ecology, ecofeminism, and social ecology

PHI 3648 AS-PHIL 3(3,0) Ethical Implications of the Human Genome Project: PR: BSC 2010C and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting.

PHI 3670 AS-PHIL 3(3,0) Ethical Theory: PR: Junior standing and C.I. Major classical and contemporary topics in ethics, including value theory, utilitarian, deontological, virtue-based and feminist approaches to ethics, rights, and justice; some examination of metaethical issues.

PHI 3683 AS-PHIL 3(3,0) Philosophy of Friendship: PR: One of: PHI 2010, PHI 3670, PHI 3683, or C.I. Philosophical aspects of friendship, focusing on its interpersonal, moral, social, and political significance and implications.

PHI 3684 AS-PHIL 3(3,0) Ways of Living: PR: HUM 2211 or HUM 2230 or C.I. Philosophies of life and the notion of "the good life.”
PHI 3750 AS-PHIL 3(3,0)  The Problem of Evil: PR: PHI 2010 or C.I. The traditional problem of evil encompassing philosophical, theological, logical, and natural interpretations and assessments of moral and natural evil.

PHI 3800 AS-PHIL 3(3,0)  Aesthetics: PR: PHI 2010, HUM 2230, ARH 2050, or ARH 2051. An investigation into the nature of human artistic experience, with special reference to questions of form, perception, and style.

PHI 3803 AS-PHIL 3(3,0)  Philosophy and Creativity: A comparison course to PHI 3800. Aesthetics. Examines the empirical and metaphysical claims made for creativity; attempts to account for intuition, genius, and intelligence.

PHI 3805 AS-PHIL 3(3,0)  Contemporary Aesthetics: PR: PHI 2010, HUM 2211, HUM 2230, ARH 2050 or ARH 2051. Contemporary themes and arguments about visual art in relationship to current aesthetic theories.

PHI 3941 AS-PHIL 1(3,1)  Philosophy Practicum: PR: C.I. Mentor at-risk grade schoolers three hours weekly and participate in a two-hour class every other week, evaluating such work-related concepts as justice and fairness. Pass/Fail grading.

PHI 4221 AS-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.

PHI 4300 AS-PHIL 3(3,0)  Theories of Knowledge: PR: Philosophy major or C.I. Classical and contemporary theories of knowledge. A critical examination of various forms of, and reasons for, skepticism, criteria for truth and justification for belief.

PHI 4321 AS-PHIL 3(3,0)  Philosophies of Embodiment: Mind/Body/Self: PR: Junior standing and either PHI 2010, PHI 2111, PHI 2108, or C.I. Different ways of understanding relations between mind, body, and nature. Self-knowledge as articulated by western and non-western philosophers from ancient to contemporary times.

PHI 4341 AS-PHIL 3(3,0)  Ways of Knowing: PR: PHI 2010 or C.I. Philosophic study of approaches to knowledge, with emphasis on contributions of the knower to how things are known.

PHI 4400 AS-PHIL 3(3,0)  Philosophy of Science: An examination of the conceptual foundations and methodology of modern science.

PHI 4420 AS-PHIL 3(3,0)  Philosophy of Social Science: An examination of the objectives, methods and guiding norms of the social sciences and their role in the development of human knowledge.

PHI 4500 AS-PHIL 3(3,0)  Metaphysics: PR: Philosophy major or C.I. Topics include appearance and reality, actions and events, necessity and possibility, identity, nature of persons, mind-body dualism, causality, and free will and determinism.

PHI 4633 AS-PHIL 3(3,0)  Ethics and Biological Science: PR: Completion of the GEP. An application of contemporary thinking to ethical issues arising from the biological sciences, including human and animal experimentation, genetic engineering, biodiversity.

PHI 4633H AS-PHIL 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.

PHI 4690 AS-PHIL 3(3,0)  Ethics in Nanoscience and Nanotechnology: PR: Completion of GEP or Junior standing. Ethical implications of rapid developments in nanoscience and nanotechnology.

PHI 4804 AS-PHIL 3(3,0)  Critical Theory: PR: C.I. Critical theory and cultural studies emphasizing current trends as they apply to arts in diverse media.

PHI 4931 AS-PHIL 3(3,0)  Philosophy in the News: PR: PHI 2010. Changing course content. A specific topic being covered by the media will be selected for philosophical examination. Course is web enhanced.

PHI 4938 AS-PHIL 3(3,0)  Senior Research Seminar: PR: Senior standing and Philosophy major. Capstone course on research, developing effective oral and written communication skills.

PHI 4951 AS-PHIL 1(1,0)  Portfolio: PR: PHI 3083 and last semester as Philosophy major. Presentation of a representative sampling of student's best work, with appropriate revisions, including a cover narrative indicating development of philosophical knowledge and skills. Graded S/U.

PHI 5627 AS-PHIL 3(3,0)  Theoretical and Applied Ethics: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3683, or Graduate standing or C.I. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content.

PHI 5665 AS-PHIL 3(3,0)  Knowledge, Responsibility, and Society: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4631 or Graduate standing. A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content.

PHI 5700 AS-PHIL 3(3,0)  Freedom and Justice: Philosophical analysis and evaluation of selected issues arising from the interaction of the individual, society, and the state; includes topics such as freedom, equality, and justice.

PHI 3783 AS-PHIL 3(3,0)  Modernity as a Philosophical Problem: PR: PHI 2010 or PHI 3640 or C.I. Modernity in the philosophies of Kant, Hegel, Nietzsche, Heidegger, Derrida, Ronny, and others.

PHI 3786 AS-PHIL 3(3,0)  Existentialism: Study of existentialist analysis and criticism of the human situation as found in the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus.

PHI 4782 AS-PHIL 3(3,0)  Phenomenology: PR: Junior standing and three Philosophy courses. The philosophy developed in the 20th century in the writings of Husserl, Heidegger, Sartre, Merleau-Ponty, De Beauvoir and Derrida.

PHI 5069 AS-PHIL 1(1,0)  Physical Assessment Lab: PR: PHI 4421. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient.

PHI 3112 AS-PHIL 2(2,0)  Gross Anatomy/Neuroscience I: PR: Admission into the Physical Therapy program. CR: PHI 3112A. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper lower extremities. Regional cadaver dissection.

PHI 3112A AS-PHIL 3(3,0)  Gross Anatomy/Neuroscience II: PR: PHI 3112. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs.

PHI 3113 AS-PHIL 2(2,0)  Gross Anatomy/Neuroscience III: PR: PHI 3112L. Further laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning.

PHI 3122 AS-PHIL 3(3,0)  Clinical Kinesiology: CR: PHI 3120L. Mechanical aspects of human movement, including joint mechanics of the upper and lower extremity, the vertebral column, and tissue mechanics of relevant human tissues. Coordinated with cadaver dissection.

PHI 3122L AS-PHIL 3(3,0)  Clinical Kinesiology Lab: CR: PHI 3122. Lab course investigating the mechanical aspects of human movement.

PHI 3155 AS-PHIL 2(2,0)  Physiology of Therapeutic Exercise: PR: PHI 255L. CR: PHI 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems.

PHI 3155L AS-PHIL 2(0,4)  Physiology of Therapeutic Exercise Lab: CR: PHI 3155. Lab course emphasizing the clinical application of exercise physiology.

PHI 3259 AS-PHIL 2(2,0)  Patient Care Skills: CR: PHI 3259. Affective, cognitive, and psychomotor skills applied to patient care. Diversity issues discussed. Basic skills of patient care; transfers, mobility skills, draping, gait training.
Focus on cultural diversity issues, communication skills, and the physical therapy of patients with musculoskeletal dysfunction. Emphasizing therapeutic exercise skills for the treatment of relevant medical conditions as they relate to medical management in physical therapy practice.

Gross Anatomy/Neuroscience I Lab: CR: PHT 3259. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

Therapeutic Exercise I Lab: CR: PHT 4200. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

Pathology/Pharmacology: PR: STA 2023. Methods of research applied to clinical environment of physical therapy. Coverage of the language, logic, design and analysis of clinical research.


Physical Assessment Lab: PR: C.I. "Hands-on" lecture-laboratory course. Statics, simple machines, density, solar energy, heat, weather, waves, optical reflections, naked eye astronomy.

Clinical Education I: PR: Admission to PT program. Full-time supervised clinical education in physical therapy practice. Application of objectives of courses previously completed. Graded S/U.
PHY 2049 AS-PHYS 3(3,0) Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics.

PHY 2049H AS-PHYS 3(3,0) Honors Physics for Engineers and Scientists II: PR: Permission of Honors and PHY 2048H, MAC 2312. Same as PHY 2049 with honors-level content.

PHY 2049L AS-PHYS 1(0,3) Physics Laboratory for Engineers and Scientists II: CR: PHY 2049. Laboratory experiments covering selected topics in physics related to PHY 2049. Materials & Supply fee: $15.00

PHY 2053C AS-PHYS 4(3,3) College Physics I: PR: MAC 1105 and MAC 1114 or equivalent, or C.I. Mechanics, waves, thermodynamics. Materials & Supply fee: $15.00

PHY 2054C AS-PHYS 4(3,3) College Physics II: PR: PHY 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity. Materials & Supply fee: $15.00

PHY 2090 AS-PHYS 0(0,1.5) Physics Today: CR: PHY 2048 or PHY 2049. Fundamental physics principles behind recent developments in physics research will be presented in a seminar format. May be repeated for credit.

PHY 3101 AS-PHYS 3(3,0) Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics.

PHY 3110H AS-PHYS 3(3,0) Honors Physics for Engineers and Scientists III: PR: Permission of Honors and PHY 2049 or PHY 2049H. Same as PHY 3101 with honors-level content.

PHY 3220 AS-PHYS 3(3,0) Mechanics I: PR: PHY 2048 or PHY 2049H, MAP 2302. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton’s equations.

PHY 3323 AS-PHYS 3(3,0) Electricity and Magnetism I: PR: PHY 2049, MAP 2302. Electrostatics, magnetostatics, Lorentz force current electricity, Maxwell’s equations.

PHY 3513 AS-PHYS 3(3,0) Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics.


PHY 3802L AS-PHYS 3(1,5) Intermediate Physics Laboratory: PR: PHY 3101 or C.I. Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics. May be repeated for credit.

PHY 4324 AS-PHYS 3(3,0) Electricity and Magnetism II: PR: PHY 3323. Dielectrics, magnetic materials, electromagnetic waves, reflection, complex impedance, static solutions to Laplace’s Equation, radiation from an accelerated charge and antennae, special relativity.

PHY 4424 AS-PHYS 3(3,0) Optics: PR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography.

PHY 4424L AS-PHYS 3(0,3) Optical Physics Laboratory: A laboratory course on geometric optics, interference, diffraction, materials and modern optics.

PHY 4445 AS-PHYS 3(3,0) Lasers: PR: PHY 3101, MAP 2302, PHY 4424, or C.I. Principles of laser gain media, properties of resonators and modes, and description of specific laser systems.


PHY 4803L AS-PHYS 3(1,5) Advanced Physics Laboratory: PR: PHY 3802L. Experiments in optics, electronics, nuclear and solid state physics. Emphasis on design, data, and scientific writing. Materials & Supply fee: $15.00

PHY 4942C AS-PHYS 3(0,3) Practicum in Physics: PR: C.I. Physics laboratories and demonstrations, and the study of recent research on the learning of physics.

PHY 5015C AS-PHYS 3(2,2) Physics for Teachers II: PR: Graduate status or senior standing or C.I. “Hands-on” lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation.

PHY 5100 AS-PHYS 1(1,0) Topics in Contemporary Physics for Teachers: PR: Graduate status or senior standing or C.I. The study of recent findings in a selected area such as particle physics, surface physics, planetary atmospheres, lasers, geophysics, etc. May be repeated for credit.

PHY 5140C AS-PHYS 3(3,2) Ion-Solid Interactions: PR: PHY 4604 or PHY 4324, graduate status or senior standing, or C.I. Physical principles and related scientific and technological applications of ion-solid interactions.

PHY 5200C AS-PHYS 1(0,5,1.5) Newtonian Mechanics for Teachers: PR: Graduate status or senior standing or C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics.

PHY 5300C AS-PHYS 1(0,5,1.5) Electricity for Teachers: PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements.

PHY 5302C AS-PHYS 1(0,5,1.5) Electromagnetism for Teachers: PR: Graduate status or senior standing or C.I. Gauss’ Law, Biot-Savart Law, Ampere’s Law, Faraday’s Law, Lenz’s law, motors, generators, AC circuits and Maxwell’s Equations.

PHY 5546 AS-PHYS 3(3,0) Electricity and Magnetism I: PR: PHY 4324, and graduate status or senior standing or C.I. Boundary value problems in electrostatics and magnetostatics. Maxwell’s equations. EM fields in matter, wave generation and propagation; wave guides, resonant cavities.

PHY 5401C AS-PHYS 1(0,5,1.5) Optics for Teachers: PR: Graduate status or senior standing or C.I. Geometrical and physical optics, spectrometers and lasers.

PHY 5455 AS-PHYS 3(3,0) Modern X-Ray Science: PR: Graduate status or senior standing or C.I. An introduction to the science and applications of modern x-ray optics, x-ray lasers, etc., with a review of basic properties of x-rays.

PHY 5465C AS-PHYS 1(0,5,1.5) Wave Motion for Teachers: PR: Graduate status or senior standing or C.I. Water waves, waves on strings, sound and vibrations.

PHY 5505C AS-PHYS 1(0,5,1.5) Thermal Physics for Teachers: PR: Graduate status or senior standing or C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather.

PHY 5524 AS-PHYS 3(3,0) Statistical Physics: PR: PHY 3513, STA 3032, and graduate status or senior standing or C.I. A study of physical concepts and methods appropriate for the description of systems involving many particles. Ensemble theory, partition functions, Maxwell Boltzmann, Bose-Einstein, Fermi-Dirac statistics.

PHY 5606 AS-PHYS 3(3,0) Quantum Mechanics I: PR: PHY 4605, and graduate status or senior standing or C.I. Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schroedinger equation, matrix formulation, and time independent perturbation theory.

PHY 5650 AS-PHYS 3(3,0) Introduction to Quantum Computation: PR: C.I. Theoretical fundamentals and physical implementation of quantum computation for science and engineering students.

PHY 5846C AS-PHYS 3(3,3) Methods of Experimental Physics: PR: Graduate status or senior standing or C.I. Introduction to methods of experimental physics, including instrumental design, data acquisition, vacuum, cryogenics, sample preparation, nuclear physics, transport, and spectroscopy.

PHY 5933 AS-PHYS 3(3,0) Selected topics in biophysics of macromolecules: PR: PHY 3101, CHM 2046, and graduate status or senior standing or C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics.

PHY 5993 AS-PHYS 3(3,0) Introduction to Theoretical Methods of Physics: PR: MAP 2302. Analytical techniques to solve problems of physics.


PHZ 3422 AS-PHYS 3(2,3) Nanophysics: PR: PHY 2049 or C.I. Physical phenomena occurring in nanometer-length scale, including nano colloids, and nano transport.

PHZ 5156 AS-PHYS 3(3,0) Computational Physics: PR: PHZ 3151 or C.I. Computational methods applied to the solution of prob-
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<tr>
<th>Course Code</th>
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<td>PLA 3013</td>
<td>HPA-CJ/LS</td>
<td>Law and the Legal System</td>
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<td>PLA 3014</td>
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<td>Legal Research</td>
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<td>Civil Practice and Procedure</td>
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<td>Legal Issues of the Elderly</td>
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<td>Cyber Law I</td>
<td>3(3,0)</td>
<td>3</td>
</tr>
<tr>
<td>PLA 4583H</td>
<td>HPA-CJ/LS</td>
<td>Honors Cyber Law</td>
<td>3(3,0)</td>
<td>3</td>
</tr>
</tbody>
</table>

**UCF Courses and Descriptions**

**2005-2006 Undergraduate Catalog**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSB 3842</td>
<td>Sleep and Dreams</td>
<td>3(3,0)</td>
<td>A survey of the psychological and physiological foundations of sleep and dreams. Concrete facts and disturbances of sleep. Cultural perspectives on, and contemporary applications of dreams.</td>
</tr>
<tr>
<td>PSB 4103C</td>
<td>Biofeedback Applications</td>
<td>3(2,2)</td>
<td>Techniques for treating selected physical and psychological disorders.</td>
</tr>
<tr>
<td>PSB 4240C</td>
<td>Brainwaves and Behavior</td>
<td>4(3,2)</td>
<td>Review of research and clinical practice in the use of computerized EEG for treatment of selected physical and psychological disorders.</td>
</tr>
<tr>
<td>PSB 5005</td>
<td>Physiological Psychology</td>
<td>3(3,0)</td>
<td>Study of brain function, with particular emphasis on human behavior.</td>
</tr>
<tr>
<td>PSC 1121</td>
<td>Physical Science</td>
<td>3(3,0)</td>
<td>Study of classic and modern physical concepts.</td>
</tr>
<tr>
<td>PSC 1121H</td>
<td>Honors Physical Science</td>
<td>3(3,0)</td>
<td>Study of classic and modern physical concepts.</td>
</tr>
<tr>
<td>PSC 1121L</td>
<td>Physical Science Lab</td>
<td>0(0,3)</td>
<td>Laboratory experiments in physics.</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
<td>3(3,0)</td>
<td>A survey of psychological principles, theories, and methods of contemporary psychology.</td>
</tr>
<tr>
<td>PSY 2012H</td>
<td>Honors General Psychology</td>
<td>3(3,0)</td>
<td>A survey of psychological principles, theories, and methods of contemporary psychology.</td>
</tr>
<tr>
<td>PSY 2023</td>
<td>Careers in Psychology</td>
<td>1(1.0)</td>
<td>An examination of various career opportunities in psychology, including educational entry requirements, and related professional issues.</td>
</tr>
<tr>
<td>PSY 3022C</td>
<td>Academic Counseling</td>
<td>3(1,8)</td>
<td>An advanced course designed for graduate instruction. Course materials and supply fee: $20.00.</td>
</tr>
<tr>
<td>PSY 3028</td>
<td>Research Methods in Psychology</td>
<td>3(3,0)</td>
<td>Study of experimental design and research methods in psychology.</td>
</tr>
<tr>
<td>PSY 3302</td>
<td>Psychological Measurement</td>
<td>3(3,0)</td>
<td>Study of the theory underlying psychological tests and measurements procedures, including reliability, validity, and item analysis.</td>
</tr>
<tr>
<td>PSY 3320C</td>
<td>Survey Methods in Psychology</td>
<td>3(2,2)</td>
<td>Study of the theory underlying psychological tests and measurements procedures, including reliability, validity, and item analysis.</td>
</tr>
<tr>
<td>PSY 3951</td>
<td>Undergraduate Field Work</td>
<td>1-9(3-30)</td>
<td>Study of the theory underlying psychological tests and measurements procedures, including reliability, validity, and item analysis.</td>
</tr>
<tr>
<td>PSY 4025</td>
<td>The Psychology of Art</td>
<td>3(3,0)</td>
<td>A survey of the psychological principles underlying the arts.</td>
</tr>
<tr>
<td>PSY 4213L</td>
<td>Advanced Research Methods Statistical Lab</td>
<td>3(0,3)</td>
<td>A survey of the psychological principles underlying the arts.</td>
</tr>
<tr>
<td>PSY 4215C</td>
<td>Advanced Research Methods in Psychology</td>
<td>4(3,2)</td>
<td>Design, analysis, and interpretation of complex research projects in psychology.</td>
</tr>
<tr>
<td>PSY 4305C</td>
<td>Advanced Psychological Measurement</td>
<td>3(1,4)</td>
<td>Design, analysis, and interpretation of complex research projects in psychology.</td>
</tr>
</tbody>
</table>
validity, and item analysis.

PSY 4604 AS-PSYCH 3(3,0) History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positions.

PSY 5605 AS-PSYCH 3(3,0) History and Systems of Psychology: PR: Acceptance to Clinical Psychology Ph.D. program or C.I. An examination of modern American psychology from its origins in the late 19th century to the present time. This course is intended for the Ph.D. in Clinical Psychology; in certain instances graduate students in other programs may enroll.

PUP 3203 AS-POLS 3(3,0) Environmental Politics: PR: POS 2041 or C.I. An examination of politics and policy-making concerning issues of conservation, pollution and development of land, air, and water resources.

PUP 3314 AS-POLS 3(3,0) Minorities in American Politics: Historical and contemporary role of minority groups in the American political process, including an examination of their electoral significance and relevant legislative, executive, and judicial policies.

PUP 3325 AS-POLS 3(3,0) Women and Political Behavior: PR: POS 2041 or C.I. Women's role in the political process, emphasizing women in the governmental and policy process.

PUP 3508 AS-POLS 3(3,0) Space Studies: PR: Junior standing or C.I. Multidisciplinary overview of space studies, providing familiarity with some technical aspects as well as the relationship between technical and public policy considerations.

PUP 4003 AS-POLS 3(3,0) American Public Policy: PR: POS 2041 or C.I. Policy formation, implementation and evaluation, with a focus upon contemporary American problems, including the malapportionment of societal power and social conflict.

PUP 4204 AS-POLS 3(3,0) Sustainability: PR: POS 2041 or C.I. Environmental politics through the lens of "sustainability." Attention devoted to the relationships of culture, economics, and ecology.

PUP 4209 AS-POLS 3(3,0) Urban Environmental Policy: PR: POS 2041. Public policy, ecology, and the urban political landscape explored by tracing their development and prospects for sustainable cities.

PUP 4323 AS-POLS 3(3,0) Women and Public Policy: PR: POS 2041 or C.I. Public policies and processes that achieve a disparate impact on women and women's lives in the United States.

PUP 4404 AS-POLS 3(3,0) Education and Politics: PR: Junior standing or C.I. Western education and the connection between citizenship and education, education funding, and the politics of education reform.

PUP 4503 AS-POLS 3(3,0) Government and Science: PR: C.I. Examination of interface between science and government. Focus is upon governmental support for science, social accountability, and the role of the scientist-policy maker in comparative context.

PUP 4510 AS-POLS 3(3,0) Space Policy: An examination of the politics and policy-making involved with the US space program in the context of domestic demands and other international space programs.

PUP 4602 AS-POLS 3(3,0) Politics of Health: PR: C.I. Analysis of public health policies. Primary focus upon political processes, policymakers, and interest group interventions, including consumers and policy outcomes. Comparative health policies.

PUP 4744 AS-POLS 3(3,0) Government and Business: PR: Junior standing or C.I. Analysis of public policies regarding business. Study includes various levels of government including international organizations.

PUP 4931 AS-POLS 3(3,0) Topics in Public Policy: Intensive analysis of a current policy problem. Sample topics include education, growth management, housing, affirmative action, welfare, and transportation. May be repeated once.

PUR 3100 AS-COMM 3(2,1) Writing for Public Relations: PR: AD/PR Majors only. Development of skills in writing for public relations.

PUR 4000 AS-COMM 3(3,0) Public Relations: PR: SPC 1600C. Principles and practice of Public Relations including techniques, research tools publicly, and management.

PUR 4110 AS-COMM 3(1,3) Public Relations Publications: PR: ENC 2210 or PUR 3100 or JOU 2100C or ENC 3250. Basic principles and techniques of desktop production of public relations publications.

PUR 4203 AS-COMM 3(3,0) PR/Advertising Ethics and Law: PR: Admitted to the Advertising/Public Relations (B.A.) and ADV 3801. Legal precedents applicable to advertising and public relations as well as ethical considerations for both.

PUR 4800 AS-COMM 3(3,0) Public Relations Campaigns: PR: Majors only, PUR 4000 or C.I. Planning and execution of public relations campaigns for profit and non-profit organizations.

PUR 4801 AS-COMM 3(3,0) 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.

RAT 3001 HPA-HP 3(3,0) Introduction to Radiation Oncology: PR: Acceptance into program. An overview of radiation therapy treatment procedures and patient care considerations.

RAT 3241 HPA-HP 3(3,0) Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy.

RAT 3242 HPA-HP 2(2,0) Oncologic Pathology: PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characteristics, histologic grading, staging and treatment.

RAT 3614 HPA-HP 2(2,0) Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection.

RAT 4247 HPA-HP 3(3,0) Radiation Oncology I: Methods of radiation therapy treatment of malignant conditions of the skin, oral cavity, pharynx, sinuses, thyroid, digestive and respiratory systems.
estate law with emphasis on Florida statutes and case law.

REE 4103 BA-FIN 3(3,0)
Real Estate Appraisal and Valuation: PR: FIN 3403. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis.

REE 4204 BA-FIN 3(3,0)
Real Estate Finance: PR: FIN 3403. Focus on the fundamentals of real estate finance utilizing tools of financial and economic analysis.

REE 4303 BA-FIN 3(3,0)
Real Estate Investment Analysis: PR: FIN 3403. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis.

REE 4732 BA-FIN 3(3,0)
Real Estate Development: PR: REE 4303. The real estate development process, from the inception of a project through to lease-up, long-term financing, and final sale to the investment community.

REL 2300 AS-PHI 3(3,0)
World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam.

REL 2300H AS-PHI 3(3,0)

REL 3111 AS-PHI 3(3,0)
Religion and Philosophy Through Film: PR: ENC 1102 and either PHI 2010 or REL 2300 or FIL 1001. 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.

REL 3115 AS-PHI 3(3,0)

REL 3116 AS-PHI 3(3,0)
Healing: Culture, Art and Praxis: PR: Junior standing. A theory of the culture-specific nature of illness, including soul loss, spirit intrusion and the medicalization of deviance.

REL 3340 AS-PHI 3(3,0)
Buddhist Thought: PR: HUM 2230 or REL 2300 or C.I. Teachings of Buddhism and their contemporary applications.

REL 3432 AS-PHI 3(3,0)
Roots of Western Mysticism: PR: HUM 3432, HUM 3435, HUM 3552, HUM 3553, HUM 4303, HUM 4554, PHH 3100, or PHH 3200. Ancient, medieval, and early modern European mysticism, and its influences on religious, philosophical, artistic, and scientific thought in the West.

REL 4110 AS-PHI 3(3,0)
Religion and the Arts: PR: At least one of the following: HUM 2211, HUM 2230, ARH 2050, ARH 2051, or REL 2300: Art, music, dance, and ritual practices in religious traditions, with an emphasis on contemporary society.

REL 4901 AS-PHI 1(1,0)
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.

REL 4910 AS-PHI 3(3,0)
Senior Research Seminar: PR: Senior standing and Religion Studies track major. Capstone course on research, developing effective oral and written communication skills.

RET 3026C HPA-HP 4(3,3)
Introduction to Respiratory Care: PR: Admission to the professional upper-division Respiratory Therapy Program. Fundamental respiratory principles and practices will be studied. Introduction to the profession and basic methods are covered. Lecture and lab. Materials & Supply fee: $43.00.

RET 3174 HPA-HP 3(3,0)
Pediatric Respiratory Care: PR: RET 3026. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS.

RET 3264C HPA-HP 2(2,3)
Mechanical Ventilation: PR: RET 3026C. Function and use of mechanical ventilators, patient evaluation methods. All forms of ventilatory support will be studied. Lecture and laboratory.

RET 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.

RET 3484C HPA-HP 4(3,3)

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.

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 4244C. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing.

RET 4285 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics II: PR: RET 4244C and RET 4284C. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, streptokinase use, and heart surgery.

RET 4414C HPA-HP 4(3,3)
Pulmonary Function Studies: PR: RET 3026C. Detailed procedures and tests to provide information for diagnosis of pulmonary disease. Lecture-laboratory.

RET 4441 HPA-HP 4(3,3)
Vascular Ultrasound: Study of application of ultrasound in the diagnosis of vascular diseases. Includes doppler and color flow doppler examination of arterial and venous systems.

RET 4443 HPA-HP 4(3,3)
Advanced Cardiac Ultrasound: PR: RET 4284 or C.I. Study of advanced applications of ultrasound in the diagnosis of cardiac abnormalities. Two-dimensional echo, conventional doppler, and color doppler covered.

RET 4503 HPA-HP 3(3,0)
Chest Medicine: PR: RET 3026. Disease states treated medically in conjunction with one or more modalities of respiratory therapy.

RET 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.

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.

RET 5910 HPA-HP 3(3,0)
Research Methods in Cardiopulmonary Physiology: Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis.

RMI 3011 BA-FIN 3(3,0)
Principles of Risk and Insurance: PR: FIN 3403. Emphasis on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention.

RTE 3000 HPA-HP 3(3,0)

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. Materials & Supply fee: $10.00.

RTE 3116 HPA-HP 3(3,0)
Advanced Patient Care: PR: RTE 3111C or C.I. Study of advanced patient care concepts and techniques associated with computed tomography, magnetic resonance imaging, mammography, pediatrics and interventional procedures.
UCF Courses and Descriptions

RTE 3308 HPA-HP 3(3,0) Medical Physics: PR: RTE 3684C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding.

RTE 3418C HPA-HP 3(2,5,1.5) Principles of Radiographic Exposure I: An introduction to the technical variables influencing radiographic and fluoroscopic image quality, including equipment considerations, prime exposure factors, image receptors, and accessory exposure devices. Materials & Supply fee: $28.00

RTE 3457C HPA-HP 3(2,5,1.5) Principles of Radiographic Exposure II: PR: RTE 3418 or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality. Materials & Supply 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. Materials & Supply 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 evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones. Materials & Supply fee: $45.00

RTE 3584C HPA-HP 2(2,0) Physics of Image Production: PR: College Physics II. Physics of diagnostic radiology, including radiation production, physical principles of generator operation, and characteristics of electromagnetic radiation.

RTE 3804 HPA-HP 4(0,16) Clinical Education I: PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment.

RTE 4202 HPA-HP 3(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.

RTE 4206 HPA-HP 3(3,0) Leadership in Radiological Sciences: PR: Senior level status in RS major or C.I. Study of the theories, principles and skills needed to function in a leadership position in Radiologic Sciences.

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.

RTE 4385 HPA-HP 1(1,0) Radiobiology: PR: RTE 3306. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated.

RTE 4473 HPA-HP 3(3,0) Quality Improvement: PR: Registered technologist or Senior standing. The study of quality improvement and quality control from the perspective of radiology services.

RTE 4563 HPA-HP 2(2,0) Special Radiographic Procedures: PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, cholangiography, hysterosalpingography, and bronchography.

RTE 4573 HPA-HP 3(3,0) Advanced Imaging Modalities: PR: RTE 3563 or C.I. A study of the physical principles and applications of computed tomography, digital imaging, interventional radiography, mammography, ultrasound, magnetic resonance imaging, and nuclear medicine.

RTE 4762 HPA-HP 3(3,0) Anatomy for the Medical Imagier: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference.

RTE 4782 HPA-HP 2(0,20) Pathophysiology: PR: C.I. The study of radiologic science in the diagnosis and treatment of disease.

RTE 4814L HPA-HP 5(0,20) Clinical Education III: PR: C.I. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the chest, abdomen, extremities and shoulder girdle.

RTE 4824L HPA-HP 6(0,24) Clinical Education IV: PR: RTE 4814. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography.

RTE 4834 HPA-HP 4(0,16) Clinical Education IV: PR: RTE 4824. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranium, facial bones, and special procedures.

RTE 4884 HPA-HP 4(0,16) Clinical Education V: PR: RTE 4834. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on surgical and special procedure examinations.

RTE 4854 HPA-HP 2(0,8) Advanced Clinical Practicum: PR: RTE 4824. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonance imaging.

RTE 4903 HPA-HP 2(0,8) Directed Study in Radiologic Education: PR: EVT 3371 or EDG 4323 or C.I. Directed activity in classroom instruction in radiologic technology.


RTV 2102 AS-R/TV 3(3,0) Electronic Journalism I: PR: RTV 2102 and RTV Major - Production Specialization. Basic lighting techniques for both studio and location, single and multiple-camera video production. Materials & Supply fee: $30.00

RTV 2260C AS-R/TV 4(4,3) Single Camera Video Production and Editing: PR: RTV 3263 and RTV Major - Production Specialization or Broadcast Journalism Specialization. Technical and aesthetic requirements of analog and digital single-camera video production and editing, including techniques for electronic news gathering (ENG) and electronic field production (EFP). Materials & Supply fee: $30.00

RTV 3263C AS-R/TV 3(3,3) Advanced Video Post-Production: PR: RTV 3262 and RTV Major - Production Specialization. Advanced post-production techniques for analog and digital video, including A/B roll time code editing, digital video effects, electronic graphics, and non-linear video editing systems. Materials & Supply fee: $15.00

RTV 3283C AS-R/TV 3(3,1) Production of Interactive Multimedia: PR: CJS 1060, major status in RTV, Ad/PR, Journalism, Organization, or Interpersonal Communication. Practice and production of electronic interactive multimedia for the broadcast industry. Materials & Supply fee: $15.00


RTV 3304 AS-R/TV 3(3,0) Electronic Journalism II: PR: RTV 3301, RTV 3268C, and RTV Major - Broadcast Journalism Specialization. Newswriting and newswriting strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages.

RTV 3501 AS-R/TV 3(1,2) Broadcast Copywriting: PR: RTV Majors only, Grammar Proficiency Examination and School Typing Exam. Preparation of written public service and commercial copy for radio and television.

RTV 3942L AS-R/TV 1(3,0,3-9) Practicum: PR: C.I., RTV Major, and either RTV 3210C, RTV 3223C, or RTV 3260C. Student will serve in some position of responsibility for UCF Weekly News or other RTV program. May be repeated for credit. Graded S/U.

RTV 4206C AS-R/TV 4(4,3) Television Directing: PR: RTV 3228C and RTV Major - Production Specialization. Preparation and direction of programs, using both digital and analog resources, with emphasis on dramatic value and composition. Materials & Supply fee: $30.00

RTV 4211C AS-R/TV 3(3,3)
Audio Production: PR: RTV 3210C and RTV Major. Creating the sound design and multiple track recording in the analog and digital domain. Materials & Supply fee: $15.00

RTV 4270C AS-R/TV 3(3,3)
Radio Production and Programming: PR: RTV 3200 and RTV Major - Production or Broadcast Generalist Specialization. Study and production of current radio formats, the integration of digital resources, and their effects on today's radio listener.

RTV 4280C AS-R/TV 3(3,3)
Webcasting: PR: RTV Major and PR or CR: RTV 3280C. Presentation of distribution radio, television, and web content. Materials & Supply fee: $15.00

RTV 4281C AS-R/TV 3(3,3)
Webcasting II: PR: RTV 4280C and RTV Major. Production of digital media in conjunction with other RTV production activities to repurpose broadcast content for delivery on the web. Materials & Supply fee: $15.00

RTV 4320C AS-R/TV 3(1,3)
Television News: PR: RTV 3304 and RTV Major - Broadcast Journalism Specialization. Production of weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director. Materials & Supply fee: $15.00

RTV 4322C AS-COMM 3(1,3)
Advanced TV News: PR: RTV 4320C, RTV Majors only, and C.I. Supervised broadcast news experience and practice in the weekly UCF news program.

RTV 4403 AS-R/TV 3(3,0)
Electronic Media, Technology, and Society: PR: or CR: RTV 3000. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media.

RTV 4503 AS-R/TV 3(3,0)
Sports Programming on Broadcast and Cable: PR: RTV 3000 or C.I. An examination of the factors that determine how sporting events are constructed for programming on broadcast stations and cable systems.

RTV 4505 AS-R/TV 3(3,1)
Program Issues for TV & Motion Pictures: PR: RTV 3000 or Fil 2400. An examination of program development theories, strategies, and issues in the television and motion picture industries.

RTV 4700 AS-R/TV 3(3,0)
Regulation of Broadcasting: PR: RTV Majors only, RTV 3000. Federal, state, local and self-regulatory agencies and practices which govern electronic media.

RTV 4800 AS-R/TV 3(3,0)
Broadcast Management: PR: RTV Majors only, RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels.

RUS 1120 AS-LANG 4(4,1)
Elementary Russian Language and Civilization I: Introduces the student to Russian culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in this language.

RUS 1121 AS-LANG 4(4,1)
Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120.

RUS 2210 AS-LANG 3(3,0)
Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking.

RUS 2230 AS-LANG 3(3,1)
Intermediate Russian Language and Civilization I: PR: RUS 1211 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

RUS 2231 AS-LANG 3(3,1)
Intermediate Russian Language and Civilization II: PR: RUS 2230 or equivalent. Continuation of RUS 2230, with emphasis on Russian civilization.

RUS 3240 AS-LANG 3(3,0)
Russian Conversation: PR: RUS 2231 or equivalent. Development of skills in conversation and comprehension through practice.

RUS 3760 AS-LANG 3(3,0)
Advanced Russian Oral Communication: PR: RUS 2231 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues.

SCE 3310 ED-TLP 3(3,0)
Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures. Materials & Supply fee: $5.25

SCE 4023 ED-TLP 3(3,0)
Teaching Science and Technology to Young Children: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures. Materials & Supply fee: $5.25

SCE 4360 ED-TLP 4(3,2)
Science Instructional Analysis: PR: EDG 4323 or C.I. Course objectives for a school curriculum and methods and materials for the middle grades and high school. Materials & Supply fee: $8.00

SCE 5325 ED-TLP 3(3,0)
Teaching Middle School Science: PR: EDG 6236 or C.I. This course will provide experiences that promote effective science teaching in grades 5-9 including interdisciplinary teaching, technology use, ESOL, and inquiry in science.

SCE 5632 ED-TLP 3(3,0)
Issues and Methods in Secondary School Science: PR: EDG 6236 or C.I. Secondary science education. Special methods course is designed to augment students' understanding of instructional methods and their applications to middle and high school science curriculum.

SCE 5716 ED-TLP 3(3,0)

SCE 5825 ED-TLP 3(3,0)
Space Science for Educators: PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum.

SOP 1501 ED-ES 3(2,1)
Strategies for Success in College: This course is designed to address the development of life-skills necessary for the contemporary student to appropriately adjust to college requirements that lead to self-mastery and the total concept of lifetime wellness.

SOP 2311 BCBS-M&M 1(0,2)
Overview of Select Medical Careers: An overview of the pre-health professions process for careers in medicine, dentistry, veterinary medicine, optometry, pharmacy, podiatry, and chiropractic. Graded SU.

SOP 2772 AS-Pych 3(3,0)

SOP 3004 AS-Pych 3(3,0)

SOP 3723 AS-Pych 3(3,0)
Cross Cultural Psychology: PR: PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups.

SOP 3724 AS-Pych 3(3,0)
The Psychology of Racial Prejudice: PR: PSY 2012. Examination of literature relating to prejudice toward ethnic groups; effects of racism on individuals, development and maintenance of prejudice, and possible ways to reduce prejudice.

SOP 3742 AS-Pych 3(3,0)
Psychology of Women: PR: PSY 2012. Examination of the psychological impact of changing sex roles on women in modern society. Topics include child rearing, working women, and sex differences in personality and cognition.

SOP 3751 AS-Pych 3(3,0)
Legal Aspects of Psychology: PR: PSY 2012 or SYG 2000; PPE 3003 or C.I. Ethical and legal dilemmas and issues in the practice of psychology.

SOP 3784 AS-Pych 3(3,0)
Psychology of Diversity: PR: PSY 2012. A review of the contributions of psychology to the understanding of human diversity related to ethnic background, gender, sexuality, and belief systems.

SOP 5059 AS-Pych 3(3,0)
Advanced Social Psychology: PR: SOP 3004, graduate status or senior standing, or C.I. The major findings and theories in social psychology including an in-depth review of relevant research.

SOW 2020 HPA-SOWK 3(3,0)
Introduction to Social Services: Introduction to social services, with emphasis on the role of the professional social worker and current career opportunities.

SOW 3104 HPA-SOWK 3(3,0)
Assessing Human Development: Skill development in assessing "person-in-environment" throughout life cycle. Study interaction of bio-psychosocial, cultural, and systemic influences on human functioning. Open to non-majors and pending social work majors.

SOW 3111 HPA-SOWK 3(3,0)
Assessing Human Systems: PR: SOW 3104. Development of skills in assessing families, groups, organizations, and communities, their impact on human functioning, and their potential for providing social support.

SOW 3203 HPA-SOWK 3(3,0)
Social Work & Community Resources: PR: JR. Standing or C.I. open to non-majors. Generalist social work practice, including the structure of American social welfare, values and ethics of social work and community resources.

SOW 3300 HPA-SOWK 3(2,1)

SOW 3352 HPA-SOWK 3(1,2)
Practice II: PR: SOW 3300. Interpersonal Skills in Social Work: PR or CR: SOW 3300. Study and practice of interviewing, group leadership, written communication, and oral presentations, in consensual as well as conflictual...
context of social work.

SOW 3420 HPA-SOWK 3(2,1) Social Work with Minorities: PR: SOW 3203, and SOW 3104; PR or CR: SOW 3300. Study of oppressed groups and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups.

SOW 4232 HPA-SOWK 3(3,0) Social Welfare Policies and Issues: PR: SOW 3203 or equivalent. Development of skills needed to critically analyze social welfare goals, structures, and practices. Proposes improvements in societal resource systems.

SOW 4341 HPA-SOWK 3(1,2) Micro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving with individuals, families and supportive and remedial groups.

SOW 4343 HPA-SOWK 3(1,2) Macro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving to obtain and improve social welfare resources within organizations and communities.

SOW 4431 HPA-SOWK 3(2,1) Evaluating Social Work Practice and Service Programs: PR: SOW 3401, SOW 3300. The study of systematic data collection and of measurement of change in individuals, families, groups, programs, and communities.

SOW 4510 HPA-SOWK 9(0,28) Field Education: PR: Completion of required courses in major: GPA 2.5 in major. CR: SOW 4522. Supervised learning experiences in agencies that relate social work practice to theory, requiring 420 clock hours in the field. Graded S/U.

SOW 4522 HPA-SOWK 3(2,1) Field Education Seminar: PR: Completion of required courses in major: CR: SOW 4510. Weekly seminar to examine the field experience and to relate theory with practice situations.

SOW 4602 HPA-SOWK 3(3,0) Social Work in Health Settings: PR: SOW 3300 and SOW 3104 or C.I. Study of social work roles, interventions, and issues related to helping patients in health settings.

SOW 4645 HPA-SOWK 3(3,0) Social Services for the Elderly: PR: SOW 3300, SOW 3304, or Gerontology Certificate Major or C.I. Development of interventions skills for obtaining, providing, and improving social services in behalf of elderly persons and their families.

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.

SOW 4654 HPA-SOWK 3(0,0) Children's Services: PR: or CR: SOW 3104. Study of societal responses to children's needs. Development of skills for preventing family breakdown, placing children in alternative care, and reuniting children with their families.

SOW 4673 HPA-SOWK 3(3,0) Social Work Practice: The Gay and Lesbian Experience: PR: SOW 3104 or C.I. Sexual orientation and cultural diversity, policies and resources affecting gay & lesbian people, community based therapeutic and preventive interventions with gay & lesbian clients.

SOW 4705 HPA-SOWK 3(3,0) Prevention and Treatment of Adolescent Substance Abuse: PR: Junior Standing. An in-depth review of prevention, intervention, and treatment, recovery and relapse issues and public policies regarding adolescents with substance abuse problems.

SOW 4706 HPA-SOWK 3(3,0) Intervention with Substance Abusers: PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances.

SOW 4730 HPA-SOWK 3(3,0) Documentation in Social Work Practice: PR: SOW 3300 and SOW 3352. For Social Work majors only. Development of documentation skills for the delivery of social work services in various agency settings.

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.

SOW 5106 HPA-SOWK 3(3,0) Human Behavior and Social Environment II: Social Systems: Study of the patterns and dynamics of families, groups, organizations, and communities from a social work and a systems perspective.

SOW 5109 HPA-SOWK 3(3,0) Violence Against Women: A Global Perspective: PR: Graduate status or C.I. An introduction to the types of violence that impact women from a global perspective. Community, political, and economic issues that support violence against women will be discussed by country, ethnic group(s) within countries, and religious principles.

SOW 5132 HPA-SOWK 3(3,0) Diverse Client Populations: Study of human diversity, focusing on the needs, resources, programs, and service issues of several identified minority client populations.

SOW 5235 HPA-SOWK 3(3,0) Social Welfare Policies and Services: Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services.

SOW 5236 HPA-SOWK 3(3,0) Social Work Practice I: Generalist Practice: Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice.

SOW 5236 HPA-SOWK 3(3,0) Social Work Practice II: Intervention Approaches: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs.

SOW 5355 HPA-SOWK 3(3,0) Studies in Social Work Practice: PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit.

SOW 5387 HPA-SOWK 3(3,0) nonprofit Resource Development: PR: Admission to certificate program or C.I. Resource Development in non-profit organizations, including board development and leadership, volunteer program development, staff development, grant funding, fundraising, marketing, and government contract development and management.

SOW 5404 HPA-SOWK 3(3,0) Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues.

SOW 5432 HPA-SOWK 3(3,0) Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities.

SOW 5532 HPA-SOWK 2(2,0) Generalist Field Education I: PR: Admission to MSW Program. Supervised practice of social work in an agency for 224 clock hours. Graded S/U.

SOW 5533 HPA-SOWK 2(2,0) Generalist Field Education II: PR: MSW. Continuation of SOW 5532 Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U.

SOW 5534 HPA-SOWK 1(1,0) Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOW 5532. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U.

SOW 5537 HPA-SOWK 1(1,0) Generalist Field Education Integrative Seminar II: PR: Admission to MSW program. CR: Generalist Field Education II. Continuation of generalist field education integrative seminar I, to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U.

SOW 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.

SOW 5604 HPA-SOWK 3(3,0) Medications in Social Work Practice: PR: graduate standing, pos-bac status, senior in SW program or C.I. The study of the effects that psychotropic medications can have within the counseling/helping relationship.

SOW 5624 HPA-SOWK 3(3,0) Social Work Practice in Mexican Culture: PR: C.I. The practice of social work in Mexican culture through cultural immersion, seminars, field visits and language instruction.

SOW 5625 HPA-SOWK 3(3,0) Social Work with Women: Alternative approaches to the treatment of women in the urban setting.

SOW 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.

SOW 5642 HPA-SOWK 3(3,0) Aging In Social Situations: PR: Admission to MSW program or Gerontology Certificate Program or C.I. Knowledge about elderly in social situations or environmental context.

SOW 5644 HPA-SOWK 3(3,0) Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certificate program or MSW program or C.I. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations.

SOW 5652 HPA-SOWK 3(3,0) Children Services in Social Work: PR: Graduate standing. Study of societal responses to children's needs. Development of skills for preventing family breakdown,

UCF Courses and Descriptions
planning children in alternative care, and reuniting children with their families.

**SOW 5655**  | **HPA-SOWK**  | 3(3,0)  | Child Abuse: Treatment and Prevention: The social worker's role and interventions with victims of child abuse and their family members.

**SOW 5662**  | **HPA-SOWK**  | 3(3,0)  | Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance.

**SOW 5670**  | **HPA-SOWK**  | 3(3,0)  | Gay and Lesbian Experience in American Society: PR: seniors or graduate status. Sexual orientation in a cultural context: resources and policies affecting gay and lesbian people; and professional considerations in interventions with and for gay and lesbian clients.

**SOW 5695**  | **HPA-SOWK**  | 3(3,0)  | Documentation Skills for Helping Professionals: PR: MSW Social Work Students, C.I. Study of documentation skills and record keeping for helping professionals.

**SOW 5712**  | **HPA-SOWK**  | 3(3,0)  | Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances.

**SOW 5713**  | **HPA-SOWK**  | 3(3,0)  | Premarriage and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An indepth review of prevention, intervention and treatment of Adolescent Substance Abuse

**SOW 5846**  | **HPA-SOWK**  | 3(3,0)  | Spirituality in Professional Counseling: PR: graduate standing, post-bac status, seniors, or C.I. Examination of spirituality as it relates to professional counseling.

**SPA 2631**  | **HPA-COMD**  | 3(3,0)  | Issues of Deafness: PR: C.I. The impact of deafness on individual, family and social problems in the deaf community and culture, including historical and changing attitudes towards persons and disabilities.

**SPA 3002**  | **HPA-COMD**  | 3(3,0)  | Introduction to Communicative Disorders: Etiology, symptoms, and methods of diagnosing and treating communicative disorders. For beginning and prospective majors in communicative disorders.

**SPA 3011**  | **HPA-COMD**  | 3(3,0)  | Speech Science I: Production: Study of how speech is produced, how it is transformed into an acoustic signal, and how that acoustic signal is measured.

**SPA 3011L**  | **HAP**  | 1(0,1)  | Speech Production Lab: PR: SPA 3112. CR: SPA 3011. Physiological and acoustic measurement of speech production. Graded SU.

**SPA 3101**  | **HPA-COMD**  | 3(3,0)  | Physiological Bases of Speech and Hearing: PR: SPA 3002. An introduction to the anatomical, physiological, and physical elements underlying the communication process.

**SPA 3101L**  | **HAP**  | 1(0,1)  | Physiological Bases of Speech and Hearing: Lab: PR: SPA 3101. CR: SPA 3112. Which is structured to provide the student with the opportunity to observe and to practice the techniques of speaking.

**SPA 3104**  | **HPA-COMD**  | 3(3,0)  | Neural Bases of Communication: PR: SPA 3101. Structures and functions of the nervous system involved in communication and its disorders.

**SPA 3112**  | **HPA-COMD**  | 3(3,0)  | Basic Phonetics: CR: SPA 3112. Physiological descriptions and visual Notation of standard speech patterns and regional dialects.
SPA 4660C HPA-COMD 4(3,1)
Interactive Interpreting I: PR: SPA 4662, SPA 4603 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter’s role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations.

SPA 4662C HPA-COMD 4(3,1)
Interactive Interpreting II: PR: SPA 4660 or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL.

SPA 4948 HPA-COMD 3(0,3)
Community Internship: PR: SPA 4550C and Senior. Supervised interaction and planned activities with individuals experiencing communication disorders in community settings, including Head Start, public schools, clinics, skilled nursing and assisted living facilities.

SPA 5327 HPA-COMD 3(3,0)

SPA 5473 HPA-COMD 3(3,0)
Multicult. Aspects of Communication Differences and Disorders: PR: Graduate standing. Introduction to cultural and linguistic diversity among individuals with communication differences and disorders. Special emphasis on African, Hispanic, Asian, and Native-American cultures.

SPA 5477 HPA-COMD 3(3,0)
Aging and Communication: PR: Senior status or C.I. Study of the changes in communication with normal aging, focusing on assessment and management of older individuals with communication disorders.

SPA 5559 HPA-COMD 3(3,0)
Augmentative and Alternative Communication Systems: PR: Senior status or CI. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability.

SPA 5561 HPA-COMD 3(3,0)
Counseling in Communicative Disorders: PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families.

SPA 5570 HPA-COMD 3(3,0)
Administration and Management of Communicative Disorders Programs: PR: SPA 6553, SPA 5327. Methods and techniques for organization and administration of speech-language and hearing disorders in public school, hospital, rehabilitation center, and private practice facilities.

SPC 1016 AS-COMM 3(3,0)
Fundamentals of Technical Presentations: Communication theory and its application to preparing and delivering technical information in public speaking situations.

SPC 1016H AS-COMM 3(3,0)

SPC 1600 AS-COMM 3(3,0)

SPC 1600H AS-COMM 3(3,0)

SPC 3301 AS-COMM 3(1,2)
Interpersonal Communication: Nature of the communication process; variables affecting the process and the individuals involved. Analysis of communication models, interaction behavior, situational cues, verbal and non-verbal messages.

SPC 3425C AS-COMM 3(2,1)
Group Interaction and Decision-Making: PR: COM 3311. A study of small group processes. Attention is given to problem solving, leadership emergence, conformity behavior, and group member role responsibilities.

SPC 3513 AS-COMM 3(1,2)
Argumentation and Debate: PR: SPC 1600C or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization.

SPC 3602 AS-COMM 3(1,2)
Advanced Public Speaking: PR: SPC 1600C or C.I. Advanced training in selecting and organizing materials for various types of speeches. Practice in thinking and speaking before audiences.

SPC 4331 AS-COMM 3(3,0)
Nonverbal Communication: PR: COM 3311. Review of current behavioral research in such areas as proxemics, kinesics, physical characteristics, tactile communication, and paralanguage. Lectures are supplemented by frequent nonverbal exercises.

SPC 4426 AS-COMM 3(3,0)

SPC 4540 AS-COMM 3(3,0)
Attitudes and Communication: PR: COM 3311. A survey of the immediate and direct ways in which persuasive communications and social groups come to influence attitudes.

SPN 1120 AS-LANG 4(4,1)
Elementary Spanish Language and Civilization I: PR: SPA 4603 or C.I. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

SPN 1121 AS-LANG 4(4,1)
Elementary Spanish Language and Civilization II: PR: SPA 1120 or equivalent. Continuation of SPN 1120.

SPN 1130H AS-LANG 4(4,1)
Honors Elementary Spanish Language and Civilization I: 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.

SPN 1131H AS-LANG 4(4,1)
Honors Elementary Spanish Language and Civilization II: PR: Permission of Honors. Continuation of SPN 1130 with honors-level content. Same as SPN 1121 with honors-level content.

SPN 1170 AS-LANG 8(16,10)
Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment.

SPN 2230 AS-LANG 3(3,1)
Intermediate Spanish Language and Civilization I: PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

SPN 2231 AS-LANG 3(3,1)
Intermediate Spanish Language and Civilization II: PR: SPN 2230 or equivalent. Continuation of SPN 2230, with emphasis on Spanish civilization.

SPN 2240 AS-LANG 3(3,1)
Intensive Spanish Conversation: PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level.

SPN 2241 AS-LANG 3(3,0)
Spanish Conversation: PR: SPN 2231 or equivalent. Development of skills in conversation and comprehension through practice.

SPN 2340 AS-LANG 3(3,0)
Spanish for Native Speakers: PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language.

SPN 2511 AS-LANG 3(3,0)
Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and realia are essential components of this course.

SPN 3140 AS-LANG 3(3,0)
Business Spanish I: PR: SPN 2230 and SPN 2231 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World.

SPN 3141 AS-LANG 3(3,0)
Business Spanish II: PR: C.I. Continuation of Business Spanish I.

SPN 3142 AS-LANG 3(3,0)
Business Spanish III: PR: C.I. Continuation of Business Spanish II.

SPN 3232 AS-LANG 3(3,0)
Advanced Directed Readings: PR: SPN 2230 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers.

SPN 3300 AS-LANG 3(3,0)
Advanced Spanish Grammar and Composition: PR: SPN 2231 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts.

SPN 3341 AS-LANG 3(3,0)
Advanced Spanish for Native Speakers: PR: SPN 2340 or C.I. This course is the continuation of SPN 2340 geared towards native speakers and will complete the remaining grammatical topics as well as emphasize composition skills.

SPN 3343 AS-LANG 3(3,0)
Advanced Rhetoric for Native Speakers: PR: Third year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only.

SPN 3344 AS-LANG 3(3,0)
Advanced Spanish Native Fluency I: PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers.

SPN 3345 AS-LANG 3(3,0)
Advanced Spanish Native Fluency II: PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I.
emphasizing the remaining grammatical topics and composition skills.

**SPN 3402** AS-LANG 3(3,0)
Practice in Modern Spanish Grammar: PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts.

**SPN 3420** AS-LANG 3(3,0)
Development of skills in composition.

**SPN 3512** AS-LANG 3(3,0)
Contemporary Spanish Culture Abroad: PR: SPN 2241 or SPN 3420. This course will focus on contemporary Spanish culture presented through classroom lectures and discussions, assigned reading and scheduled activities.

**SPN 3760** AS-LANG 3(3,0)
Advanced Spanish Oral Communication: PR: SPN 2231 or SPN 2240 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues.

**SPN 3850** AS-LANG 3(3,0)
Structure of the Spanish Language: PR: SPN 3420. Linguistic theory applied to analysis of Spanish language. Includes systematic study of sound patterns, semantics, word formations, and socializations.

**SPN 3852** AS-LANG 3(3,0)
Bilingualismo: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. Spanish-English bilingualism in the United States. Models of language acquisition in bilinguals, domains of language use, maintenance, shift, transfer, diversity, attitudes, code-switching, attrition and contact.

**SPN 3933** AS-LANG 1(1,0)
Spanish Across the Curriculum: PR: SPN 2231 or C.I. CR-concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit.

**SPN 4143** AS-LANG 3(3,0)
Business Spanish IV: PR: C.I. Advanced course in business terminology and development of advanced language skills.

**SPN 4410** AS-LANG 3(3,0)
Advanced Spanish Composition: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. Advanced conversation on directed topics from various disciplines: literature, art, psychology, philosophy, music, business, and the sciences.

**SPN 4421** AS-LANG 3(3,0)
Advanced Spanish Composition: PR: SPN 3300, SPN 3420, SPN 3760 or C.I. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories.

**SPN 4510** AS-LANG 3(3,0)
Spanish Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. A study of Spanish civilization and culture from Pre-Roman times to the present. Conducted in Spanish.

**SPN 4520** AS-LANG 3(3,0)
Latin American Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. An overview of the currents in Latin American culture and civilization from the Pre-Columbian period to the present. Conducted in Spanish.

**SPN 4780** AS-LANG 3(3,0)
Spanish Phonetics: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Students will learn the basic principles of Spanish pronunciation and perfect the correct punctuation of Spanish through intensive practice and oral drill.

**SPN 4800** AS-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 United States.

**SPN 4801** AS-LANG 3(3,0)
Spanish Morphosyntax: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish.

**SPN 5502** AS-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.

**SPN 5505** AS-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.

**SPN 5506** AS-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.

**SPN 5705** AS-LANG 3(3,0)
Introduction to Spanish Linguistics: PR: Graduate status or senior standing or C.I. An introduction to main concepts and methods of analyses focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics.

**SPN 5825** AS-LANG 3(3,0)
Spanish Dialectology: PR: Graduate status or senior standing or C.I. This course is a survey of the diversity found within the Spanish language with respect to phonological constraints, morphosyntax, second language influences, and historical development.

**SPN 5845** AS-LANG 3(3,0)
History of the Spanish Language: PR: Graduate status or senior standing or C.I. An overview of the linguistic characteristics of Latin and its evolution into Spanish with historical development of phonetic, morphological, and syntactic properties.

**SPN 5920** AS-LANG 3(3,0)
AP Spanish Language: 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, comprehen- sion, speaking, reading, and writing.

**SPT 3800** AS-LANG 3(3,0)
Spanish Translation and Interpretation: PR: Completion of 2000 level sequence or equivalent. Introduction to translation and interpretation, practical applications of theory applied to professional written and audio texts from Spanish to English and from English to Spanish.

**SPT 3805** AS-LANG 3(3,0)
Spanish Translation and Interpretation for Mass Communication: PR: SPN 3420. Translation and interpretation in mass communication using all forms of media.

**SPT 3809** AS-LANG 3(3,0)
Medical Spanish Translation and Interpretation: PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques and ethics in the field of medical translation and interpretation.

**SPT 3831** AS-LANG 3(3,0)
Spanish Legal Translation and Interpretation: PR: SPN 3420 and SPN 2241. The terminology, procedures and ethics required to be a Spanish language court interpreter and translator in the legal field. May be repeated for credit.

**SPT 4801** AS-LANG 3(3,0)
Spanish Translation Practicum: PR: SPT 3800. Development of translation and interpretation skills in a professional environment. Concentration in legal, medical, and business areas.

**SPW 3000H** AS-LANG 3(3,0)
Honors: Nobel Prize Literature: Spain and Latin America: PR: Permission of Honors and Junior standing or C.I. Students will analyze, discuss and research English translations of Spanish and Latin American Nobel-Prize-Winning writers. Through readings, students will explore the universality of Spanish literature.

**SPW 3100** AS-LANG 3(3,0)
Survey of Spanish Literature I: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the Middle Ages through the Eighteenth century.

**SPW 3101** AS-LANG 3(3,0)
Survey of Spanish Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century to the present.

**SPW 3130** AS-LANG 3(3,0)
Survey of Latin-American Literature I: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the colonial period to Nineteenth Century Romanticism.

**SPW 3131** AS-LANG 3(3,0)
Survey of Latin-American Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century from Realism to the present.

**SPW 3320** AS-LANG 3(3,0)
Modern Hispanic Theatre Workshop I: PR: C.I. Introduction to fundamental actor's technique and practice in Spanish. Short scenes will be performed in class.

**SPW 3321** AS-LANG 3(3,0)

**SPW 3370** AS-LANG 3(3,0)
Modern Spanish Short Story: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. A study of representative 19th and 20th-century Spanish short stories and their authors.

**SPW 4272** AS-LANG 3(3,0)
20th Century Spanish Novel: PR: SPW 3101 or SPW 3131 or C.I. Major works by the leading authors of the 20th century. Texts selected are studied not only for their aesthetic value, but also in terms of their historical and cultural significance.

**SPW 4310** AS-LANG 3(3,0)
Golden Age Drama: PR: SPW 3100 or C.I. A study of the drama of the Golden Age, with special emphasis on Lope, Tirso, Alarcon, and Calderon. The controversies of the Spanish theatre and its influence abroad are examined.

**SPW 4322** AS-LANG 3(3,0)
Contemporary Iberian Theatre: PR: SPW 3101 or C.I. A
study of the major playwrights and tendencies in contemporary Iberian theatre.

**SPW 4364 AS-LANG (3,0)**
Latin-American Narrative/Essay: PR: SPW 3100 or SPW 3103 or SPW 3130 or SPW 3131 or 3370 or C.I. Study of Latin-American narrative/essay (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes.

**SPW 4381 AS-LANG (3,0)**
Latin-American Theatre/Poetry: PR: SPW 3100 or SPW 3101 or SPW 3130 or SPW 3131 or SPW 3370. Study of Latin-American theatre/poetry (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes.

**SPW 4382 AS-LANG (3,0)**
Central American Literature: PR: SPW 3131 or C.I. This course familiarizes the student with literary works of prominent writers from Central America. It covers the different literary periods within Central American literary history. Taught in Spanish.

**SPW 4450 AS-LANG (3,0)**
Spanish Literary Theory: PR: SPW 3100 and SPW 3101, or SPW 3130 and SPW 3131, or C. I. A study of textual criticism with emphasis in the theory of genre.

**SPW 4460 AS-LANG (3,0)**
Nineteenth Century Spanish Literature: PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism.

**SPW 4600 AS-LANG (3,0)**
Cervantes: PR: SPW 3100 or C.I. Don Quixote.

**SPW 4720 AS-LANG (3,0)**
The Generation of 1898: PR: SPW 3101 or C.I. A study of the generation’s main authors and their works.

**SPW 4730 AS-LANG (3,0)**
Hispanic Literature of the United States: PR: SPW 3101 or SPW 3131 or C.I. Reading and study of outstanding works written by Hispanic writers of the United States.

**SPW 4770 AS-LANG (3,0)**
Caribbean Spanish Literature: PR: SPW 3101 or SPW 3131 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present.

**SPW 4772 AS-LANG (3,0)**
Black Presence in Contemporary Latin American Literature: PR: SPW 3101 or SPW 3131 or C.I. Analysis and discussion of representative contemporary work of authors who have included the black character as part of their narrative.

**SSE 3312 ED-TLP (3,0)**
Teaching Social Science in the Elementary School: PR: Admission to Phase II or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques; evaluation procedures.

**SSE 4361 ED-TLP (4,0)**
Social Science Instructional Analysis: PR: EDG 4323 or C.I.; CR: SSE 3940 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.

**SSE 5115 ED-TLP (3,0)**
Methods in Elementary School Social Science: PR: EDG 4323. Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting.

**SSE 5391 ED-TLP (3,0)**
Global Education: Theory and Practice: 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.

**SSE 5776 ED-TLP (3,0)**
Democracy and Education: PR: Graduate standing or C.I. Explores the intersection of theory and practice with regard to promoting democratic life in schools. Will examine competing theories of democracy and education, investigate problem areas in schools related to democracy, and consider examples of practice.

**STA 1060C AS-STAT (2,1)**
Basic Statistics Using Microsoft Excel: Applications of Excel; manipulating data; two-dimensional graphs and statistics; scatterplots; probability distributions; statistical inference.

**STA 2023 AS-STAT (3,0)**
Statistical Methods I: PR: MAC 1105 or MGF 1106. First methods course introducing probability and statistical inference, including estimation, hypothesis testing, binomial and normal distributions, sample size.

**STA 2023H AS-STAT (3,0)**
Honors Statistical Methods I: PR: Permission of Honors; Calculus desired by not necessary. Same as STA 2023 with honors-level content.

**STA 3032 ECS-IEMS (3,0)**
Probability and Statistics for Engineers: PR: MAC 3213 and computer programming. Axioms of probability; combinatorial and geometrical probability; probability distributions, measures of location and dispersion, sampling and sampling distributions; estimation and tests of hypothesis; engineering applications.

**STA 3096 AS-STAT (3,0)**
Graphical Statistics: PR: STA 2023 or STA 3032 and a knowledge of a programming language. Principles of graph construction, graphical perception, graphical methods, computer programs for graph construction.

**STA 4102 AS-STAT (3,0)**
Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Use of packages such as SAS, BMD, SPSS for data validation, description and analysis of data, regression and analysis of variance and covariance.

**STA 4130 AS-STAT (3,0)**

**STA 4163 AS-STAT (3,0)**
Statistical Methods II: PR: STA 2023 or STA 3032. Not open to students with credit in STA 4165. Methods of analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods.

**STA 4164 AS-STAT (3,0)**
Statistical Methods III: PR: STA 4163. A continuation of STA 4163, including further study of regression, analysis of variance and covariance and multiple comparisons.

**STA 4173 AS-STAT (3,0)**
Biostatistical Methods: CR: STA 4163. Introduction to the application of statistical principles and methods to problems in medical, biological, and health sciences.

**STA 4183 AS-STAT (3,0)**
Theory of Interest: PR: MAC 2312 (or equivalent) and STA 2023. Measurement of simple and compound interest, accumulated and present values factors. Annuities certain, yield rates, amortization schedules and sinking funds, Bonds, securities and related funds.

**STA 4187 AS-STAT (3,0)**

**STA 4222 AS-STAT (3,0)**

**STA 4321 AS-STAT (3,0)**
Statistical Theory I: PR: STA 2023 or STA 3032; CR: MAC 2313. Probability axioms, discrete and continuous sample spaces, conditional probability, independence, one-dimensional random variables, moment generating functions, transformations, jointly distributed random variables.

**STA 4322 AS-STAT (3,0)**

**STA 4502 AS-STAT (3,0)**
Nonparametric Statistical Methods: PR: STA 2023 or STA 3032. Distribution-free tests on location and dispersion, goodness of fit tests, tests of independence, measures of association, nonparametric analysis of variance.

**STA 4504 AS-STAT (3,0)**
Categorical Data Analysis: PR: STA 4163 or STA 4165. Two-way and three-way contingency tables, odds ratios, partial association, logistic regression and log linear models.

**STA 4641 AS-STAT (3,0)**

**STA 4664 AS-STAT (3,0)**
Statistical Quality Control: PR: STA 2023 or STA 3032. Statistical concepts and methods applied to the control of quality of manufactured products.
UCF Courses and Descriptions


STA 4852 AS-STAT 3(3,0) Applied Time Series: PR: STA 4163. Forecasting methods, time series analysis, stationary and nonstationary time series, ARIMA models, forecasting processes.

STA 4939 AS-STAT 3(3,0) Problems in Actuarial Science: PR: STA 4322. Fundamental mathematical and statistical tools for quantitatively assessing risk; application of these tools to problems in actuarial science. May be repeated for credit.

STA 4942 AS-STAT 3(3,0) Practicum in Actuarial Science: PR: STA 4183 or STA 5183. Discussion and presentation by actuarial practitioners.

STA 5103 AS-STAT 3(3,0) Advanced Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Graduate status or senior standing, or C.I. Use of SAS and other statistical software packages; data manipulation; graphical data presentation; data analysis; creating analytical reports.


STA 5175 AS-STAT 3(3,0) Biometry: PR: STA 2032. Graduate status or senior standing, or C.I. Design and analysis of experiments with emphasis on biological/ecological application; one-way and multi-way ANOVA; regression; ordination; classification.

STA 5176 AS-STAT 3(3,0) Introduction to Biostatistics: PR: STA 4163 or STA 4172. Graduate status or senior standing, or C.I. Fixed-effects models, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportional hazards model.

STA 5185 AS-STAT 3(3,0) Advanced Theory of Interest: PR: MAC 2312 and STA 2023. Graduate status or senior standing, or C.I. Determination of yield rates on investments, fixed income securities, mortgages, etc.

STA 5205 AS-STAT 3(3,0) Experimental Design: PR: STA 4164, STA 5206 or ESI 5219, and graduate status or senior standing, or C.I. Construction and analysis of designs for experimental investigations. Blocking, randomization, replication; incomplete block designs; factorial and fractional designs; design resolution.

STA 5206 AS-STAT 3(3,0) Statistical Analysis: PR: STA 2023; not open to students who have completed STA 4164. Graduate status or senior standing or C.I. Data analysis; statistical models; estimation; tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods.

STA 5505 AS-STAT 3(3,0) Categorical Data Methods: PR: STA 4163 or STA 5206, and graduate status or senior standing or C.I. Considers discrete probability distributions, contingency tables, measures of association, and advanced methods, including logistic regression, loglinear modeling, and McNemar's test. Mantel-Haenszel test.

STA 5546 AS-STAT 3(3,0) Casualty Insurance: PR: STA 4322 and STA 4641, graduate status or senior standing, or C.I. Casualty insurance and loss adjustment expenses. Investment income.

STA 5703 AS-STAT 3(3,0) Data Mining Methodology I: PR: STA 5103 and STA 5206, graduate status or senior standing, or C.I. Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access). Process with neural network and decision tree.

STA 5825 AS-STAT 3(3,0) Stochastic Processes and Applied Probability Theory: PR: STA 4321, and graduate status or senior standing or C.I. Conditional probability and conditional expectations, sequences of random variables, branching processes, random walks, Markov chains, renewal theory, queuing theory, and simple stochastic processes.

STA 5940 AS-STAT 1(1,0) Statistical Advice for Researchers: PR: Graduate status or senior standing or C.I. Discussion of student-supplied statistical problem, data sources, sampling techniques, computer package usage, analysis, interpretation. May be repeated for credit. Graded S/U.

SUR 2101C ECG-CCE 3(2,3) Surveying: PR: MAC 2311 and Junior standing. Theory and field practice in surveying measurements and the reduction and adjustment of field data.

SYA 3110 AS-SOC/AN 3(3,0) The Development of Social Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. Theories concerning the nature of mankind as a "social being." The nature of society from the beginnings of the scientific study of human life to World War II.

SYA 3120 AS-SOC/AN 3(3,0) Modern Sociological Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. A study of the major European and American contributors to modern sociology since World War II.


SYA 4300 AS-SOC/AN 4(3,2) Research Methods: PR: SYG 2000 or SYG 2010 and SYA 3400 or C.I. Sociological data collections, sampling techniques, grant proposal development, critical evaluation of social research, and relationship between theory and social research.

SYA 4314C AS-SOC/AN 4(3,1) Qualitative Research Analysis in Sociology: PR: SYA 4300. Advanced research design and analysis focusing on qualitative research methodologies in sociology. Emphasizes data collection, management, analysis, interpretation, integration, presentation, and report writing.

SYA 4450 AS-SOC/AN 4(3,2) Data Analysis: PR: SYA 4300 and SYA 3400. Advanced research design and analytical skills. Emphasis on social data management, various modes of social data analysis, interpretation, integration, presentation, and report writing.


SYA 5625 AS-SOC/AN 3(3,0) ProSeminar: PR: Graduate status or senior standing or C.I. Survey of conceptual issues, methodological concerns, and findings in substantive sociological areas that currently dominate scholarly inquiry, including such topics as crime, deviance, community, alcoholism, education.

SYA 5937 AS-SOC/AN 3(3,0) Advanced Population: PR: Graduate status or senior standing or C.I. Examines the theories, methods, and information utilized by demographers and focuses on techniques of application of those skills.

SYD 3410 AS-SOC/AN 3(3,0) Urban Sociology: PR: SYG 2000 or C.I. Historical roots of urbanization. Analysis and impact of community change on social organizations in modern industrial societies.

SYD 3700 AS-SOC/AN 3(3,0) Race and Ethnic Minorities in the United States: Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification.

SYD 3750 AS-SOC/AN 3(3,0) Contemporary Social Issues and North American Indians: PR: 2000 level social science or C.I. Examination of North American Indian sovereignty and current issues including economic development, education, freedom of religion, child welfare, federal/state/tribal relationships and environment.

SYD 3751 AS-SOC/AN 3(3,0) North American Indian Women Today: PR: 2000 level social science course or C.I. Examination of works of modern North American Indian women within context of sovereign rights. Issues include myths, gender roles, coerced sterilization, child welfare, and economic opportunities.

SYD 3752 AS-SOC/AN 3(3,0) Modern Law in Indian Country: PR: 2000 level social science course or C.I. Examination of unique legal relationship between American Indian governments and state federal governments. Legal issues include criminal justice, child welfare, and land ownership.

SYD 3800 AS-SOC/AN 3(3,0) Sex Roles in Modern Society: The traditional and changing roles of women and men viewed in a sociological perspective.

SYD 4020 AS-SOC/AN 3(3,0) Population: Concerned with the study of human population, its distribution, composition, and change.

SYD 4510 AS-SOC/AN 3(3,0) Environmental Sociology: PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment.

SYD 4810 AS-SOC/AN 3(3,0) Women in Contemporary Society: PR: SYG 2000 or WST 3015 or C.I. Examination and evaluation of the status of women in the context of the major social institutions (e.g., family, education, religion, economy and politics).
SYO 4300 AS-SOC/AN 3(3,0)
Political Sociology: Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government.

SYO 4400 AS-SOC/AN 3(3,0)
Medical Sociology: Analysis of patient beliefs and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care.

SYP 3300 AS-SOC/AN 3(3,0)
Collective Behavior: PR: SYO 2000 or C.I. Analysis of relatively unstructured social situations, such as mobs, crowds, etc. as well as more structured forms of collective behavior such as social movements.

SYP 3400 AS-SOC/AN 3(3,0)
Social Change: PR: SYO 2000 or SYO 2010 or C.I. Context and essential sources of social development and change.

SYP 3510 AS-SOC/AN 3(3,0)
Sociology of Deviant Behavior: PR: SYO 2000 or SYO 2010 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization

SYP 3511 AS-SOC/AN 3(3,0)
Sociology of Murder: PR: SYO 2000 or SYO 2010 or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances.

SYP 3520 AS-SOC/AN 3(3,0)
Criminology: PR: SYO 2000 or SYO 2010 or C.I. Chief causes of anti-social behavior and current methods of prevention and reform. Effects of heredity and environment, prevalence of delinquency and crime, penal institutions.

SYP 3530 AS-SOC/AN 3(3,0)
Juvenile Delinquency: Types of delinquency behavior found among juveniles, possible causes and ways society attempts to treat the various forms of delinquency.

SYP 3540 AS-SOC/AN 3(3,0)
Sociology of Law: PR: SYO 2000 or SYO 2010 or C.I. The relationship between law and society, including the functions of law and its organization, social and economic consequences, jury selection, and modern trends.

SYP 3551 AS-SOC/AN 3(3,0)
Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society.

SYP 3562 AS-SOC/AN 3(3,0)
Sociological Perspectives on Domestic Violence: PR: SYO 2000 or C.I. Sociological perspectives on all forms of domestic violence, including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention.

SYP 3602 AS-SOC/AN 3(3,0)
Sociology of Popular Music: PR: SYO 2000 or SYO 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.

SYP 3630 AS-SOC/AN 3(3,0)
Sociology of Popular Culture: PR: Junior Standing or C.I. Examines the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age.

SYP 3650 AS-SOC/AN 3(3,0)
Sociology and Sport: PR: SYO 2000 or SYO 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.

SYP 4000 AS-SOC/AN 3(3,0)
Sociological Social Psychology: PR: SYO 2000 or C.I. Study of social perception, attitude formation and change, motivation, and decision-making in small groups as affected by social interaction and social processes.

SYP 4004 AS-SOC/AN 3(3,0)
Constructing Social Issues: PR: SYO 2000 or SYO 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.

SYP 4323 AS-SOC/AN 3(3,0)
Social Systems and Diversity: PR: SYO 2000, junior standing. The formation of social systems in response to social problems and the implementation of public policy. Emphasis on diverse perspectives and ethical positions and their effect on the form and effectiveness of social systems.
domestic violence.

SYP 5615 AS-SOC/AN 3(3,0)
Sociology of Crime: PR: Graduate standing or C.I. Major theoretical approaches and empirical studies in the sociology of crime and analysis of cultural processes.

SYP 5738 AS-SOC/AN 3(3,0)
Seminar on the Welfare State & Aging: PR: Graduate status or senior standing or C.I. A sociological examination of old policies from a cross-cultural perspective.

TAX 2000 BA-ACCT 3(3,0)
Personal Income Tax: PR: Accounting major or minor. A study of federal income tax designated to convey basic tax concepts and skills related to the individual taxpayer. Not open to accounting majors.

TAX 4001 BA-ACCT 3(3,0)
Federal Income Tax I: PR: Accounting major or minor, Junior standing and ACG 3101 with a grade of “C” or better or C.I. Concepts and methods of determining taxable income of individuals, and selected topics.

TAX 5015 BA-ACCT 3(3,0)
Advanced Tax Topics: PR: Accounting major or minor, TAX 4001 or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships.

THE 2000 AS-THEA 3(3,0)
Theatre Survey: Overview of the art and craft of the theatre. Restricted to non-majors. Materials & Supply fee: $5.00

THE 2000H AS-THEA 3(3,0)

THE 2020 AS-THEA 3(3,0)
Survey of Theatre for Majors: PR: Theatre major or departmental consent. Overview of the art and craft of the theatre.

THE 2090 AS-THEA 1(0,20)
Theatre Production/Performance I: PR: B.A. Theatre major or C.I. Non-majors require departmental permission. Participation in UCF Theatre productions. Required of all BA theatre majors. Materials & Supply fee: $15.00

THE 2091 AS-THEA 1(0,20)
Theatre Production/Performance II: PR: THE 2090, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

THE 2271 AS-THEA 3(3,0)

THE 2304 AS-THEA 3(3,0)
Script Analysis: PR: Theatre major or minor. Exploration of dramatic form with focus on playscripts for productions.

THE 2925 AS-THEA 0(0,0)
Theatre Participation: PR: Theatre major or department consent. Participation in UCF Theatre productions. May be repeated. Graded S/U.

THE 3082 AS-THEA 3(3,0)

THE 3092 AS-THEA 1(0,20)
Theatre Production/Performance III: PR: THE 2001, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors; but requires departmental consent Materials & Supply fee: $15.00

THE 3110 AS-THEA 3(3,0)
Theatre History I: PR: THE 2000 or THE 2000 and ((THE 3303 or THE 2XXX (Script Analysis) or TPP 3650)) and Theatre major or departmental consent. Development of theatre arts from prehistory through the 17th century.

THE 3111 AS-THEA 3(3,0)
Theatre History II: PR: THE 3110, THE 3305. Theatre major or departmental consent. Theatre arts from the seventeenth century to the present.

THE 3230 AS-THEA 3(3,0)
Commonality within Cultural Diversity Experienced through Theater: PR: THE 2000 or THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups.

THE 3240 AS-THEA 3(3,0)

THE 3303 AS-THEA 3(3,0)
Play Analysis: PR: Restricted to B.A. Theatre majors or departmental consent. A lecture course providing an overview of different elements found in the world of the play and the written text. Emphasis on theory and structure.

THE 3305 AS-THEA 3(3,0)
Dramatic Literature I: PR: (THE 2000 or THE 2000) and (THE 3303 or THE 2XXX (Script Analysis) or TPP 3650) and Theatre major or departmental consent. Playscripts from Sophocles to Jonson.

THE 3306 AS-THEA 3(3,0)

THE 3312 AS-THEA 3(3,0)

THE 4093 AS-THEA 1(0,20)
Theatre Production/Performance IV: PR: THE 3092, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

THE 4094 AS-THEA 1(0,20)
Theatre Production/Performance V: PR: THE 4093, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

THE 4096 AS-THEA 1(0,20)
Theatre Production/Performance VI: PR: THE 4094, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent. Materials & Supply fee: $15.00

THE 4097 AS-THEA 1(0,20)
Theatre Production/Performance VII: PR: THE 4096, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent. Materials & Supply fee: $15.00

THE 4098 AS-THEA 1(0,20)
Theatre Production/Performance VIII: PR: THE 4097, Theatre Major or C.I. Participation in UCF Theatre productions. Materials & Supply fee: $15.00

THE 4244 AS-THEA 3(3,0)

THE 4245 AS-THEA 3(3,0)

THE 4372 AS-THEA 3(3,0)

THE 5246C AS-THEA 3(3,2)
Musical Theatre: PR: graduate acting 1, graduate status, or C.I. Historical study of the origins and development of musical theatre up to and including the work of Andrew Lloyd Webber.

THE 5248 AS-THEA 3(3,0)
Musical Theatre in History: PR: Admission to MFA Musical Theatre Program. A chronological study of musical theatre from early Viennese operetta to the musicals of the modern age. Course will emphasize the work of composers, librettists, and lyricists as well as representative masterworks of a variety of genre. Emphasis will be placed upon historical trends and theatrical viability.

THE 5269 AS-THEA 3(3,0)
Period Props, Furniture & Architecture: PR: Admission into the graduate program, THE 5190, or C.I. Advanced Chronological study of historical genres and styles of furniture, ornament and design and their interrelationships.

THE 5275 AS-THEA 3(3,0)

THE 5307 AS-THEA 3(3,0)

THE 5376 AS-THEA 3(3,0)
Theatre/Drama of Williams, Miller, and Inge: PR: Entrance into the Graduate Program. Study of Tennessee Williams, Arthur Miller, and William Inge from a literary, performance, and historical view, instilling in students a knowledge/appreciation of their plays.

THE 5385 AS-THEA 3(3,0)
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.

THE 5386 AS-THEA 3(3,0)
Oral Interpretation of Children’s Literature: PR: Admission to MFA graduate program or C.I. The study of interpreting literature for and with the young.

THE 5910 AS-THEA 3(3,0)
Research Methods in Theatre: PR: MFA and MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms.
THE 5945L AS-THEA 1(0,20)
Theater Practicum I: PR: Graduate status or C.I. A laboratory course designed to develop students' practical working knowledge in theater.

THE 5946L AS-THEA 1(0,20)
Theater Practicum II: PR: Admission into the graduate program, Theater Practicum I. A laboratory course designed to develop students' practical working knowledge in theater.

TPA 2000C AS-THEA 3(2,2)
Theatre Design Basics: PR: TPA 2000 or THE 2000 and BFA Design/ Tech or Stage Management majors. Basic design skills for scenic, lighting and costume designers using color, grayscales, textures and symmetry to create a strong stage presence.

TPA 2071C AS-THEA 3(2,2)
Theatre Rendering: PR: TPA 2000 or THE 2000, and TPA 2000C and BFA Design/ Tech or Stage Management majors. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers.

TPA 2201 AS-THEA 3(3,3)

TPA 2210 AS-THEA 3(3,6)
Stagecraft I: PR: THE 2000 or TPA 2000, Restricted to Theatre majors or Departmental consent. Continuation of TPA 2210. Required of all B.F.A. Theatre majors. Materials & Supply fee: $15.00

TPA 2211 AS-THEA 3(3,6)

TPA 2220 AS-THEA 3(2,2)
Stage Lighting: PR: THE 2000 or TPA 2000 and BFA Design/ Tech or Stage Management majors. Study of basic electricity, optics, lighting equipment and control, and stage lighting techniques and practices. Service on a lighting crew as required. Required of all technical theatre/design majors.

TPA 2248C AS-THEA 2(2,2)

TPA 2290 AS-THEA 1(0,20)
Theatre Production/Performance I: PR: Not restricted to Theatre majors but requires Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors. Materials & Supply fee: $15.00

TPA 2291 AS-THEA 1(0,20)
Theatre Production/Performance II: PR: TPA 2290, open to non-Theatre majors with Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors. Materials & Supply fee: $15.00

TPA 3040 AS-THEA 3(2,2)
Costume Design: PR: TPA 2000C, TPA 2071C, TPA 3230, TPA 3044C and B.F.A. Theatre majors. Lecture/ laboratory application of the fundamentals of design, composition, color theory, and figure drawing as they relate to costume design. Includes script/character analysis and project design work with emphasis on visualization of design concepts and costume renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3043C AS-THEA 3(3,1)
Costume History I: PR: or CR: THE 3110. Theatre majors or Departmental consent. Costumes from ancient Egypt to the mid 17th century, including basic period silhouette, costume parts and accessories.

TPA 3044C AS-THEA 3(3,1)
Costume History II: PR: TPA 3043C. Restricted to Theatre majors or Departmental consent. Costumes Fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories.

TPA 3060C AS-THEA 3(2,2)
Scenic Design I: PR: TPA 2000C, TPA 2071C, TPA 3250, and (THE 3303 or THE 3XXX (Script Analysis) or TPP 3650) and B.F.A. Theatre majors or Departmental consent. Fundamentals of design, composition, color theory, drafting, perspective drawing, and rendering as they relate to scenic design. Required of all technical theatre/design majors.

TPA 3061 AS-THEA 3(2,2)
Scene Design II: PR: TPA 3060C. Restricted to B.F.A. technical theatre/design majors or Departmental consent. Continuation of TPA 3060C. An intensive, practical scenic design course dealing with various theatrical styles, genres, multiple and simultaneous settings. Includes script analysis and project design work with emphasis on visualization of design concepts through models and scenic renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3077 AS-THEA 2(2,2)
Scene Painting: PR: TPA 2210 and B.F.A. Technical Theatre Design majors or Stage Management majors. Study of the art and craft of painting for the theatre. Research into period designs and execution of examples selected from a variety of styles. Required of all B.F.A. technical theatre/ design majors. Materials & Supply fee: $15.00

TPA 3195 AS-THEA 3(0,30)
Theatre Studio/ Tech/ Design: PR: Junior standing. Theatre major or C.I. Study, analysis and execution of technical/design aspects for playscripts produced on UCF mainstage. May be repeated for credit.

TPA 3197 AS-THEA 3(0,30)
Summer Theatre Studio/ Tech/ Design: PR: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of playscripts produced on the UCF mainstage. May be repeated for credit.

TPA 3216C AS-THEA 3(3,4)
Stagecraft III: PR: TPA 2211, BFA Design/ Tech or Stage Management major. A continuation of TPA 2211 with emphasis on special projects. Materials & Supply fee: $15.00

TPA 3221 AS-THEA 3(2,2)
Lighting Design: PR: TPA 2220 and TPA 3250 and B.F.A. Theatre majors. Continuation of Stage TPA 2220. Lecture/ laboratory with emphasis on lighting design theory, style and individual lighting design projects. Required of all B.F.A. technical theatre/design majors.

TPA 3230 AS-THEA 3(2,2)
Costume Construction: PR: TPA 2210 or TPA 2290, and BFA Design/ Tech or Stage Management majors or Department Consent. Lecture/ laboratory study of the basic techniques used in the drafting, cutting, fitting, and construction of stage costumes. Required of all technical theatre/design majors. Materials & Supply fee: $15.00

TPA 3249 AS-THEA 2(2,2)
Advanced Makeup Techniques: PR: TPA 2248C.

Restricted to B.F.A. Theatre majors or Departmental consent. Lecture/ laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks. Materials & Supply fee: $15.00

TPA 3250 AS-THEA 2(2,2)
CADD for Theatre: PR: TPA 2211, Restricted to B.F.A. Theatre majors or Departmental consent. Fundamental computer aided drafting and design and its application for Theatre.

TPA 3251 AS-THEA 2(2,2)

TPA 3260 AS-THEA 3(3,0)

TPA 3401 AS-THEA 3(3,0)
Theatre Careers for Tech/Management: PR: B.F.A. Theatre majors. Restricted to theatre majors. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry.

TPA 3601 AS-THEA 3(3,0)
Stage Management: PR: TPP 2110C, TPP 3650, TPA 2210, TPA 2211. Restricted to B.F.A. Theatre majors or Departmental consent. Examination of the importance, function, and responsibilities of the stage manager prior to, during and after performance. Introduction to the fundamentals of stage management as related to Departmental productions as well as professional union requirements. Required of all B.F.A. Stage Management majors.

TPA 4041C AS-THEA 3(2,2)
Costume Design II: PR: TPA 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theatrical play productions.

TPA 4293 AS-THEA 1(0,20)

TPA 4294 AS-THEA 1(0,20)
Theatre Production/Performance IV: PR: TPA 4293. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

TPA 4295 AS-THEA 1(0,20)
Theatre Production/Performance V: PR: TPA 4294. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

TPA 4296 AS-THEA 1(0,20)
Theatre Production/Performance VI: PR: TPA 4295. Restricted to Theatre majors or Departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/ Tech and Stage Management majors. Materials & Supply fee: $15.00

TPA 4297 AS-THEA 1(0,20)
Theatre Production/Performance VII: PR: TPA 4296. Restricted to Theatre majors or Departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Technical Theatre majors or Departmental consent. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks. Materials & Supply fee: $15.00

UCF Courses and Descriptions
UCF Courses and Descriptions

B.F.A. DesignTech and Stage Management majors. Materials & Supply fee: $15.00

TPA 4296 AS-THEA 1(0,20)
Theatre Production/Performance: Vill: PR: TPA 4297, Restricted to Theatre majors or departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. DesignTech and Stage Management Theatre majors. Materials & Supply fee: $15.00

TPA 4400 AS-THEA 3(3,0)
Theatre Management: PR: TPA 2211, TPA 2201. Restricted to theatre majors or Departmental consent. Study of the development, organization, management, funding, and promotion of theatre programs. Additional emphasis placed on management theory and style.

TPA 4602 AS-THEA 3(3,0)
Advanced Stage Management: PR: TPA 3601, B.F.A. Stage Management major. Skills necessary for stage managers in contemporary entertainment.

TPA 4940 AS-THEA 6(0,40)
Technical Theatre/Design Internship: PR: Restricted to B.F.A. Technical Theatre/design and Stage Management majors. The internship is subject to Departmental approval. Off-campus internship programs provide opportunity for practical work in professional theatre. Contact the Departmental office for specific requirements.

TPA 5042C AS-THEA 3(3,0)
Costume Design Studio: PR: Admission into the graduate program, TPA 5043C, TPA 5044C, or C.I. Project oriented course in the advance study of Costume Design

TPA 5062C AS-THEA 3(2,2)
Scene Studio: PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre

TPA 5081 AS-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.

TPA 5258C AS-THEA 3(2,2)
AutoCad-3D for Theatre: PR: Admission into the MFA Design Program. Two-Dimensional computer drafting and editing techniques applicable to theatre design.

TPA 5299C AS-THEA 3(2,2)
AutoCad-3D for Theatre: PR: Admission into the graduate program and TPA 5298C. Three-dimensional computer drafting and editing techniques applicable for theatre design.

TP 5405 AS-THEA 3(3,0)
Theatre Management for Non-Majors: PR: THE 2000 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 theatrical organizations/institutions.

TPA 5885C AS-THEA 2(2,2)
Puppetry: PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance.

TPA 5946C AS-THEA 1(0,20)
Design Practicum I: PR: Admission into the MFA Design Program. Practical Experience as a member of the production team as a prop master or assistant scenic, costume, lighting, or sound designer

TPA 5949C AS-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

TPP 2101 AS-THEA 3(3,0)

TPP 2110C AS-THEA 3(2,2)
Acting I - Introduction: PR: PR or CR: (THE 3033 or THE 2XXX (Script Analysis) or TPP 3650) and (THE 2000 or THE 2000) and B.F.A. Theatre major. Introduction to acting with emphasis on the development of imagination, self-awareness, and the ability to execute basic stage tasks.

TPP 2170C AS-THEA 3(2,2)
Acting II - Fundamentals: PR: TPP 2110C, TPP 2300C, and (THE 3033 or THE 2XXX (Script Analysis) or TPP 3650) and (THE 2000 or THE 2000) and (TPP 2710C or MUT 1004) and BFA Theatrical Production/Musical Theatre major. Fundamental techniques to acting, with emphasis on character and character development.

TPP 2185 AS-THEA 3(3,0)
Acting for Non-majors: Basic introduction to the fundamentals of directing with emphasis upon the development of imagination, self-awareness, sense, memory, improvisation, and the ability to execute basic stage tasks.

TPP 2190 AS-THEA 1(0,20)

TPP 2191 AS-THEA 1(0,20)

TPP 2260 AS-FILM 2(2,1)
Acting for Film: PR: Film Majors. An introduction to acting for the camera.

TPP 2710C AS-THEA 2(2,1)

TPP 3103 AS-THEA 3(3,0)

TPP 3172C AS-THEA 3(2,2)
Acting III - Characterization: PR: PPP 2170C, DAA 2201C, and (THE 3033 or THE 2000 and (THE 3033 or THE 2XXX (Script Analysis) or TPP 3650) and (TPP 3711C or TPP 3257) and BFA performance major. Advanced work in characterization, character development, and basic audition processes.

TPP 3192 AS-THEA 1(0,20)

TPP 3197 AS-THEA 3(0,30)
Summer Theatre/Performance: PR: Open to non-Theatre majors with departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on the UCF mainstage. May be repeated for credit.

TPP 3223 AS-THEA 3(3,0)
Theatre Careers for Performance: PR: B.F.A. Theatre Major, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry.

TPP 3350 AS-THEA 3(3,0)

TPP 3352 AS-THEA 3(3,0)

TPP 3357 AS-THEA 2(2,2)
Musical Theatre Voice I: PR: B.F.A. Musical Theatre major, TPP 2710C or CR: TPP 2710C. Group voice emphasizing anatomy, physiology, diction, and character development through voice qualities.

TPP 3358 AS-THEA 2(2,2)

TPP 3310C AS-THEA 3(2,2)

TPP 3312C AS-THEA 2(2,1)

TPP 3510C AS-THEA 3(3,0)

TPP 3711C AS-THEA 2(2,1)
Voice Production I: PR: TPP 2110C, TPP 2710C, DAA 2200C, (THE 3033 or THE 2XXX (Script Analysis) or TPP 3650) and BFA performance major. Continuation of Voice Production I, correct speech on the stage, intensified study of phonetics.

TPP 3712C AS-THEA 2(2,1)
Voice Production II: PR: TPP 2110C, TPP 2710C, DAA 2200C, (THE 3033 or THE 2XXX (Script Analysis) or TPP 3650) and BFA performance major. Continuation of Voice Production II; emphasis on study of Shakespeare and heightened language.

TPP 3730C AS-THEA 2(2,1)
Voice Production III: PR: TPP 2710C, TPP 3711C, DAA 2201C, and (THE 3033 or THE 2XXX (Script Analysis) or TPP 3650) and (THE 2000 or THE 2000) and BFA performance major. Continuation of Voice Production III, the analysis and sounds of foreign dialects and regional accents; study of stage voice for age and character roles.

TPP 3952 AS-THEA 3(0,30)
Studio Performance: PR: Junior standing or C.I. Not restricted to Theatre majors but requires departmental consent. Studio performance provides the specific application of
theatre artist's training to full scale theatre productions. May be repeated for credit.

TPP 4140C AS-THEA 3(2,2) Musical Theatre Voice III: PR: Theatre majors or departmental consent, and TPP 2258. The diagnosis and development of the singing voice and its application to musical theatre performance.


TPP 4142C AS-THEA 3(2,2) Improvisation Studio: PR: Admission to MFA Performance Program. An introduction/review class examining the fundamentals of procedural, and practical work in professional theatre.


TPP 4194 AS-THEA 1(0,20) Theatre Production/Performance V: PR: TPP 4194. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent. Materials & Supply fee: $15.00

TPP 4195 AS-THEA 1(0,20) Theatre Production/Performance VI: PR: TPP 4194. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent. Materials & Supply fee: $15.00

TPP 4196 AS-THEA 1(0,20) Theatre Production/Performance VII: PR: TPP 4195. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent. Materials & Supply fee: $15.00

TPP 4198 AS-THEA 1(0,20) Theatre Production/Performance VIII: PR: TPP 4196. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to theatre majors, but requires departmental consent. Materials & Supply fee: $15.00

TPP 4221 AS-THEA 3(3,0) Auditioning: PR: Sr. standing in BFA performance or musical theatre. Selecting monologues, auditioning techniques and cold readings.


TPP 4254 AS-THEA 3(3,0) Musical Theatre Acting Performance IV: PR: Musical Theatre majors or departmental consent. TPP 4253. Continuation of advanced study for performance on the musical theatre stage. Emphasis placed on show preparation and the rehearsal process.

TPP 4255 AS-THEA 3(3,1) Musical Theatre Cabaret: PR: Musical Theatre majors or departmental consent, TPP 4254. A capstone training and rehearsal class that emphasizes the construction and performance style of the cabaret/revue genre.

TPP 4259 AS-THEA 2(2,2) Musical Theatre Voice II: PR: Theatre majors or departmental consent, and TPP 2258. The diagnosis and development of the singing voice and its application to musical theatre performance.

TPP 4265C AS-THEA 3(3,2) Acting VI - Acting for TV/Film: PR: TPP 4140C, TPP 4424C, TPP 4531C, TPP 3700C. Restricted to B.F.A. Theatre Performance majors. Lecture/laboratory study designed to expose the student to practical techniques of television and film acting. Extensive studio work.

TPP 4268 AS-THEA 3(2,2) Acting VII Advanced Acting For TV/Film: PR: TPP 4265C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project.


TPP 4312 AS-THEA 3(2,15) Workshop Studio Theatre: PR: TPP 3712C, TPP 2191, TPP 3310C, TPA 3601, and a grade of "A" in TPP 4311. Restricted to Theatre majors or departmental consent. Exploring the various aspects of mounting a one-act play, including play analysis, research, staging techniques, and other areas of directing for advanced directors. May be repeated for credit.

TPP 4531C AS-THEA 2(2,1) Period Movement: PR: TPP 4140C or TPP 3250, TPP 3310C, DAA 2570C, B.F.A. Theatre Performance Program and TPP 5715C or C.I. Continuation of Graduate Performance Internship: PR: Admission to MFA Performance Program and TPP 5715C or C.I. A guided investigation of the principles and techniques of acting for young audiences.

TPP 5029C AS-THEA 2(2,2) Musical Theatre Voice III: PR: Theatre majors or departmental consent, and TPP 2258. The diagnosis and development of the singing voice and its application to musical theatre performance.

TPP 5289C AS-THEA 2(2,2) Acting for Young Audiences: PR: Admission to MFA graduate program or C.I. A guided investigation of the principles and techniques of acting for young audiences.

TPP 5386 AS-THEA 3(3,0) Directing for Young Audiences: PR: TPP 5156C or C.I. An introduction/review class examining the fundamentals 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.


TPP 5555C AS-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.

TPP 5715C AS-THEA 2(2,1) Stage Voice I: PR: Admission to MFA performance program. An introduction/review class examining the fundamentals of speaking on stage: the correct production of sound, breath, relaxation of physical tension, and articulation.

TPP 5716C AS-THEA 2(2,1) Stage Voice II: PR: Admission to the MFA Performance Program and TPP 5715C or C.I. Continuation of Graduate Theatre Production/Performance IV: 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.

TPP 5935C AS-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 repeated for credit 4 times.

TPP 4080 AS-THEA 3(3,0) Theory and Practice of Teaching ESOL Students in Schools: PR: Junior standing or C.I. Six credits in English to Speakers of Other Languages (ESOL), ESOL curriculum and materials, cross-cultural understanding, applied linguistics in second language teaching, and test and evaluation of ESOL.


TSL 5143 AS-LANG 3(3,0) ESOL Strategies: 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.

TSL 5245 AS-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.

TSL 5345 ED-TLP 3(3,0)
Methods of ESOL Teaching: This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL.

TSL 5373 ED-TLP 3(3,0)
Teaching Language Minority Students in K-12 Classrooms: PR: Admission to College of Education Master of Arts Program or C.I. Teaching K-12 limited English proficient (LEP) students. Florida standards regarding cross-cultural communication, ESOL curriculum, and materials, ESOL methodoloby, testing and evaluation of ESOL students, applied linguistics.

TSL 5376 AS-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.

TSL 5525 ED-TLP 3(3,0)
ESOL Cultural Diversity: This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs.

TSL 5940 AS-LANG 3(3,0)
Issues in TEFL: PR: 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.

TTE 4004 ECS-CEE 4(4,0)

TTE 4601C ECS-CEE 3(2,2)
Urban Systems Design: PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies. Materials & Supply 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, signals, signs, and markings.

TTE 5700 ECS-CEE 3(3,0)
Railroad Engineering: PR: TTE 4004 and C.I. The major technical factors in location, construction, maintenance, and operation of railroad transportation systems.

TTE 5805 ECS-CEE 3(3,0)
Geometric Design of Transportation Systems: PR: TTE 4004. Study of geometric and construction design elements in the engineering of transportation systems.

TTE 5835 ECS-CEE 3(3,0)
Pavement Design: PR: CEG 4101C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy.

VIC 3001 AS-R/TV 3(3,0)
Visual Communication: A study of the visual system of man and the influences of the visual media on modern soci-
ZOO 5517  AS-BIOL  1(1,0)
Methods for Studying Animal Behavior in Zoo Setting:
PR: an animal behavior course, graduate status or senior
standing, or C.I. Research techniques used to study animals
in captivity.

ZOO 5520  AS-BIOL  3(3,0)
Behavioral Ecology: PR: graduate status or senior stand-
ing, and C.I. Introduction to the field of Behavioral Ecology,
which studies evolution of animal behavior in the wild.

ZOO 5745C  BCBS-M&M  4(3,3)
Essentials of Neuroanatomy: PR: Human/Comparative
Anatomy, or Human/Animal Physiology or C.I. Fundamen-
tal concepts of both morphological and functional organiza-
tion of the nervous system. Primary emphasis on human struc-
ture. Materials & Supply fee: $15.00

ZOO 5815  AS-BIOL  4(4,0)
Zoogeography: PR: 8 hours of zoology, and graduate sta-
tus or senior standing or C.I. Principles and concepts con-
cerning regional patterns of animal distributions of the world,
both past and present. Materials & Supply fee: $15.00

ZOO 5881C  AS-BIOL  4(3,4)
Fisheries Management: PR: ZOO 4310C, graduate status or senior standing, or C.I. Fisheries management of fresh-
water environments to include identification, sampling meth-
ods, farming and hatchery operations, propagation and pop-
ulation estimates. Materials & Supply fee: $20.00

ZOO 5891 AS-BIOL  1(1,0)
Reproductive Management in Zoological Environments:
PR: PCB 4732, graduate status or senior standing, or C.I.
Laboratory techniques used to improve reproductive suc-
cess of animals in a zoological environment.

FACULTY

The date indicates the first year of employment
at the University of Central Florida.

ABBAS, HADI, Associate Professor of Art
ABBDEL-ATY, MOHAMED, Associate Professor of Engineering
(1995), B.S.C.E., M.S.C.E., Ph.D. (University of California at Davis)
ABEL, EILEEN M., Associate Professor of Social Work
(1978), A.B., M.S.W., Ph.D., (Case Western Reserve University)
ABRAM, CHARLIE, Associate Professor of Art
ACIERNO, LOUIS J., Professor of Health Sciences (Cardiopulmonary Science)
(1979), B.S., M.D. (Georgetown University)
ACKLEY, TIMOTHY, Visiting Assistant Professor of Education
(2002), B.G.S., M.A.T., Ph.D. (University of Florida)
ADAMS, CAROLE, Associate Professor of History
(1993), B.A., M.A., Ph.D. (Harvard University)
ADAMS, KENNETH, Associate Professor of Public Affairs
(2003), Ph.D (State University of New York at Albany)
AHMAD, IBRAHIM A., Professor of Statistics
(1999), B.S., M.S., Ph.D. (Florida State University)
AJAYI, RICHARD A., Associate Professor of Finance
(1996), B.Sc., M.B.A., Ph.D. (Temple University)
AL-DEEK, HAITHAM, Professor of Engineering
(1992), B.C.E., M.S., Ph.D. (University of California at Berkeley), P.E. (Florida)
ALBERS, JUNIE, Instructor of Education
(2001), B.A., M.A. (University of Central Florida)
ALDERMAN, BARBARA, Instructor University Librarian
(2002), B.A., M.S. (Florida 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
(1990), B.S., M.Ed., Ph.D. (University of South Carolina)
ALLGOOD, JANE, Assistant Professor of Social Work
(2002), BA, MSW, Ph. D. (Florida State University)
ASHLEY, ROBERT A., Assistant Professor of Hospitality Management (1984), B.S., M.S. (Florida International University, C.E.C., C.G.E.)
ATKINSON, STANLEY M., Associate Professor of Finance (1981), B.B.A. M.B.A., D.B.A. (Mississippi State University)
BAGLEY, GEORGE M., Associate Director and Associate Professor of Communication (1994), B.A., M.A. (University of Utah)
BAILEY, CHARLES D., Professor of Accounting (1991), B.B.A., M.B.A., M.P.A., Ph.D. (Georgia State University)
BAKER, BARRY B., Director, University Libraries (1997), B.A., M.L.S. (Louisiana State University)
BALADO, CARL, Associate Professor of Education (1987), B.A., M.S., M.Ed., Ed.D. (Florida Atlantic University)
BALLANTYNE, JOHN, Professor of Education (1987), B.A., M.A., M.A.A.E. (University of Central Florida)
BANDY, DALTON D., Visiting Instructor of Law (2003), B.A., M.A., Ph.D. (University of Oklahoma)
BAILEY, CHARLES D., Assistant Professor of Philosophy (1995), B.S., M.B.A., Ph.D. (University of Missouri-Columbia)
BARSCH, KARL-HEINRICH, Associate Professor of Modern Languages and Literatures (1977), B.A., M.A., Ph.D. (University of Colorado)
BARTKEVICUS, JOCELYN, Associate Professor of English (1994), B.A., M.A., M.F.A., Ph.D. (University of Iowa)
BASSIOUNI, MOSTATA, Professor of Computer Science (1981), B.S., M.S., Ph.D. (Pennsylvania State University)
BAST, CAROL M., Associate Professor of Legal Studies (1992), B.A., M.A., J.D. (New York Law School)
BATARSEH, ISSA E., Professor of Engineering (1991), B.S., M.S., Ph.D. (University of Illinois at Chicago), P.E. (Florida)
BAUER, CHRISTIAN S., Jr., Program Director and Professor of Engineering (1970), B.S.I.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)
BAUMBACH, DONNA J., Professor of Education (1978), B.S., M.S., Ed.D. (Indiana University)
BAYER, CYNTHIA A., Research Assistant, Professor (1996), B.S., Ph.D. (Syracuse University)
BECKER, DEBRA, Visiting Assistant Professor of Education (2001), B.A., M.S.Ed., Ed.D. (University of Central Florida)
BECKER, KYLE, Visiting Assistant Professor of Theatre (2004), B.F.A., M.F.A. (University of California)
BECKER, LYNN, Instructor of Management (1996), B.S., M.B.A. (University of Central Florida)
BEILE, PENNY M., Head Curriculum Materials Center and Assistant University Librarian (1998), B.A., M.Ed., M.S.L.S. (University of Kentucky)
BEILER, ROSALIND J., Associate Professor of History and Graduate Program Coordinator (1994), B.A., Ph.D. (University of Pennsylvania)
BELFIELD, KEVIN D., Associate Professor of Chemistry (1998), B.S., Ph.D. (Syracuse University)
BELL, JOHN, Associate Professor of Theatre and Coordinator of Music Theatre (2001), B.M., M.F.A. (San Diego State University)
BELL, KATHLEEN, Associate Professor of English (1991), B.S., M.Ed., Ph.D. (Arizona State)
BENCIE, JENNIFER, Instructor of Health Services Administration (2001), M.D., M.S.A. (Central Michigan University)
BENSON, CYNTHIA, Instructor of Political Science (1985), B.A., M.A. (Ohio University)
BERMAN, STEVEN L., Assistant Professor of Psychology (2001), M.S., M.A., Ph.D. (Florida International University)
BERRIOS, JOSEPH, Assistant Professor of Engineering (2003), B.S., M.S., Ph.D. (University of Florida)
BERTETTA, GERALD S., Instructor of Physical Therapy (1996), B.A., M.S. (San Francisco State University)
BETZ, MICHELLE, Lecturer of Communication (1999), B.A. (Carleton University)
BHATTACHARYA, ANIKET, Assistant Professor of Physics (2000), Ph.D. (University of Maryland)
BIGGERSTAFF, JOHN, Visiting Instructor of Molecular Biology and Microbiology (2000), B.S., M.S., Ph.D., (Brunel University)
BIRMAH, KAREN L., Chair and Professor of Education (1985), B.A., M.A., M.S.Ed., Ph.D. (State University of New York at Buffalo)
BISHOP, PATRICIA J., Director of Graduate Studies and Professor of Engineering (1978), B.S.I.E., M.S.M.E., Ph.D. (Purdue University), P.E. (Florida)
BLACKWELL, CHRISTOPHER, Visiting Instructor (2004), RN, MSN (University of Central Florida)
BLAIR, TIMOTHY R., Professor of Education (1991), B.S., M.S., Ph.D. (University of Illinois)
BLANCES, MARIA, Assistant Professor of Education (1997), B.A., M.S.Ed., Ph.D. (Florida)
BLANEY, KATHY, Instructor of Medical Lab Science (1991), M.S. (University of Central Florida)
BLEDSOE, CAROL, Coordinator and Instructor of Communication (1970), B.A., M.A. (University of Oklahoma)
BLOCK, DAVID L., Director, Florida Solar Energy Center and Professor of Engineering (1968), B.S., M.S., Ph.D. (Virginia Polytechnic Institute), P.E. (Florida)
BLOCK, LINDA J., Instructor of Finance (2002), B.S.B.A., MBA, Ph.D. (Purdue University)
BLUE, CARROLL, Professor of Film (1980), B.A., M.F.A. (University of California, Los Angeles)
BLUM, RICHARD A., Professor of Film (1993), B.A., M.S., Ph.D. (University of Southern California)
BOBEK, DONNA D., Assistant Professor of Accounting (1997), B.B.A., Ph. D. (University of Florida)
BOGUMIL, WALTER A., Jr, Associate Professor of Management (1972), B.S., B.B.A., M.B.A. (University of Georgia)
BOHM, ROBERT M., Professor of Criminal Justice (1995), A.B., M.A., Ph.D. (Florida State University)
BOLEMON, JAY S., Associate Professor of Physics (1968), B.S., Ph.D. (University of South Carolina)
BOLONI, LANDISLAU, Assistant Professor of Engineering (2002), B.S., M.S., PhD (Purdue University)
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<td>Interim Director of Southern Region Campus Life</td>
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<td>WATSON, JIMMY L.</td>
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<td>August, 1974</td>
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<td>June, 1980</td>
<td>Thelma Vivian Jackson Dudley, Doctor of Humanities</td>
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<td>Robert J. Whalen, Doctor of Engineering Science</td>
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<td></td>
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<td>December, 1996</td>
<td>Richard A. Nunis, Doctor of Public Service</td>
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<td>Ferdinand Duda, Doctor of Agricultural Service</td>
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<td>Maxwell C. King, Doctor of Public Service</td>
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<tr>
<td>December, 1988</td>
<td>Elie Wiesel, Doctor of Letters</td>
<td>December, 2004</td>
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