2004-2005 Undergraduate Catalog

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407-823-3100

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University of Central Florida
PO Box 163222
Orlando, FL 32816-3222
http://www.housing.ucf.edu
407-823-4663

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The UCF Creed

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

Integrity
I will practice and defend academic and personal honesty.

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

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

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

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

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 123,000 alumni.

Cordially yours,

John C. Hitt
President
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Barbara B. Ratti
Vicky Brown
University Administration

Office of the Vice President for Community Relations
Vice President for Community Relations and Special Assistant to the President: Helen Donegan
Associate Vice President for Development: Kim A. Minana
Associate Vice President for Finance: TBA
Associate Vice President for Alumni Relations and Executive Director of UCF Alumni Association: Thomas Messina
Assistant Vice President for Planned Giving: Hal C. Reed
Assistant Vice President for Advancement Services: Lauren A. Shiver
President Emeritus and Special Assistant to the UCF Foundation Chief Executive Officer: Charles N. Millican
President Emeritus and Special Assistant to the UCF Foundation Chief Executive Officer: H. Trevor Cobourn

Office of the Provost and Vice President for Academic Affairs
Provost and Vice President for Academic Affairs: Terry L. Hickey
Dean, The Burnett Honors College: Allyn M. Stearman
VC Provost, Information Technologies and Resources: Joel L. Hartman
VC Provost, Academic Administrative Systems: J. Edward Neighbor
Interim VC Provost, Regional Campuses: Mike Sweeney
Associate Vice President, Planning and Evaluation: Denise L. Young
Assistant Vice President, Dean of Undergraduate Studies: John F. Schell
Assistant Vice President, Academic Affairs: Lin Huff-Corzin
VC and Director, Center for Distributed Learning: Steven Sorg
Assistant Vice President and Director, Continuing Education: Patrick Wagner
Assistant Vice President, Information Planning and Assessment: Julia Pet-Armacost
Interim Assistant VP, International and Interdisciplinary Studies: Diane Z. Chase
Director, Central Region, Regional Campuses: David J. Meaor
Director, Eastern Region, Regional Campuses: Bernard Jensen
Director, Southern Region, Regional Campuses: James A. Drake
Director, Western Region, Regional Campuses: Cecelia H. Rivers
Director, Faculty Center for Teaching and Learning: Alison Morrison-Shetlar
Director, Center for Cooperative Education and Applied Learning: Sheri Dressler
Director, Computer Services and Telecommunications: Robert Yanckello
Director, University Libraries: Barry B. Baker
Director, Instructional Resources: Ruth Marshall
Director, Course Development and Web Services: Barbara Truman
Director, Academic Support Services: Lynn J. Gonzalez
Director, University Analysis and Planning Support: Robert L. Armacost
Director, Florida-Eastern European Linkage Institute and Florida-Canada Linkage Institute: Jean Kijek
Director and University Data Administrator, Institutional Research: Sabrina Andrews
Director, Research Initiative for Teaching Effectiveness: Charles Dziuban

Office of Undergraduate Studies
Assistant Vice President, Academic Affairs, and Dean, Undergraduate Studies: John F. Schell
Associate Dean, Undergraduate Studies: David Dees

Office of the Provost and Dean of Graduate Studies
Vice Provost and Dean of Graduate Studies: Patricia J. Bishop
Associate Dean of Graduate Studies: Ben B. Morgan Jr.
Assistant Director, Recruiting: Wendy L. Bolyard
Director, Admissions and Student Services: Tracy A. Jones
Associate Director, Academic Programs and Completion: Joanne Muratori
Associate Director, Financial Assistance and Publications: Debra Y. Winter

Office of the Vice President for Student Development and Enrollment Services
Vice President for Student Development and Enrollment Services: Thomas Huddleston, Jr.
Associate Vice President for Academic Development and Retention: Maribeth Ehasz
Associate Vice President for Campus Life: Craig E. Ullom
Assistant Vice President for Administrative Student Support Services: Sharon Ekern
Assistant Vice President for Undergraduate Admissions and Student Financial Assistance: Gordon D. Chavis, Jr
Assistant Vice President for Campus Life and Director, Student Rights and Responsibilities and Student Legal Services: Patricia A. MacKown
Assistant Vice President for Campus Life and Director, Off-Campus Student Services: A. J. Range
Assistant Vice President, Transition Services: Jimmy Watson
Executive Director, Florida Foundation for Future Scientists: Nancy Besley
Executive Director, Student Financial Assistance: Mary H. McKinney
University Registrar: Dennis J. Dulinak
Director, Academic Services for Student-Athletes and Senior Associate to the Athletic Director: Karl P. Mooney
Director, Activity and Service Fee Business Office: Laura Riddle
Director, Alcohol and Other Drug Programming: Ronald Atwell
Director, Assessment and Planning: Melanie Parker
Director, Career Resource Center: Robert Harman
Director, Counseling Center: Dina Weidman
Director, Eastern Region Campus Life: Robert E. Snow
Director, First Year Advising and Exploration: Gregory Mason
Director, Computer Services and Telecommunications: Robert Yanckello
Director, University Libraries: Barry B. Baker
Director, Instructional Resources: Ruth Marshall
Director, Course Development and Web Services: Barbara Truman
Director, Academic Support Services: Lynn J. Gonzalez
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Director and University Data Administrator, Institutional Research: Sabrina Andrews
Director, Research Initiative for Teaching Effectiveness: Charles Dziuban

Assistant Director, Office of Student Involvement, Advisor, Student Government: Jeff Novak
Assistant Director, Transfer Services: Shane Juntunen
Interim Director, Creative School for Children: Jim Smith
Interim Director, Southern Region Campus Life: Rhonda C. Hall
Coordinator, Student Conduct: Tanya Cepeoro
Coordinator, Dispute Resolution Service: Nadine Hosni
Coordinator, REACH Peer Education: Richard S. Payne
### Office of the Vice President for Research

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice President for Research</td>
<td>Gregory Schuckman</td>
</tr>
<tr>
<td>Associate Vice President for Research</td>
<td>Edward Schons</td>
</tr>
<tr>
<td>Assistant Director, Research Foundations</td>
<td>Beverly L. Laake</td>
</tr>
<tr>
<td>Assistant Director, Information Systems</td>
<td>Barbara Abney</td>
</tr>
<tr>
<td>Security Clearance Officer</td>
<td>Kay Mullally</td>
</tr>
<tr>
<td>Technology Transfer</td>
<td>Herb Winfield</td>
</tr>
</tbody>
</table>

### College of Business Administration

<table>
<thead>
<tr>
<th>College</th>
<th>Dean</th>
<th>Associate Dean</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business Administration</td>
<td>Thomas L. Keon</td>
<td>Bradley M. Braun</td>
</tr>
<tr>
<td>Associate Dean, Graduate and External Programs</td>
<td>Taylor Ellis</td>
<td>Kay Mattirk</td>
</tr>
<tr>
<td>Associate Dean, Undergraduate Programs</td>
<td>Andrew J. Judd</td>
<td>Anthony Byrd</td>
</tr>
<tr>
<td>Center for Executive Development</td>
<td>Dwayne Hosni</td>
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<tr>
<td>Chair, Accounting</td>
<td>Eddie Judd</td>
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</tr>
<tr>
<td>Chair, Economics</td>
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<td>Chair, Management Information Systems</td>
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<td>Paul Cheney</td>
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<tr>
<td>Chair, Marketing</td>
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<td>Helen V. Hill</td>
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<tr>
<td>Chair, Student Support</td>
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### College of Education

<table>
<thead>
<tr>
<th>College</th>
<th>Dean</th>
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</thead>
<tbody>
<tr>
<td>College of Education</td>
<td>Sandra L. Robinson</td>
<td>Jennifer C. Platt</td>
</tr>
<tr>
<td>Associate Dean for Academic Affairs</td>
<td></td>
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<tr>
<td>Associate Dean for Research and Graduate Studies</td>
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<tr>
<td>Assistant Dean for Administration and Accreditation</td>
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<tr>
<td>Chair, Educational Studies</td>
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<tr>
<td>Chair, Child, Family and Community Sciences</td>
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<tr>
<td>Chair, Teaching and Learning Principles</td>
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<tr>
<td>Interim Chair, Educational Research, Technology and Leadership</td>
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<tr>
<td>Director of Development</td>
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<tr>
<td>Interim Chair of Clinical Experiences</td>
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<td>Director of Student Services</td>
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<tr>
<td>Director of Minority Programs in Education</td>
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### College of Engineering and Computer Science

<table>
<thead>
<tr>
<th>College</th>
<th>Dean</th>
<th>Associate Dean</th>
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<tbody>
<tr>
<td>College of Engineering and Computer Science</td>
<td>Neal Gallagher</td>
<td>Jamil F. Nayfeh</td>
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<tr>
<td>Associate Dean for Academic Affairs</td>
<td></td>
<td>Kien Hua</td>
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<tr>
<td>Interim Associate Dean for Research</td>
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<td>Assistant Dean for Distributed Learning</td>
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<td>Interim Chair, School of Computer Science</td>
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<tr>
<td>Interim Chair, Electrical and Computer Engineering</td>
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<td>Director of Development</td>
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<td>Director of Major Gifts</td>
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<td>Director of External Relations</td>
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<td>Director, Academic Support Services</td>
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<td>Director, Minority Engineering and Computer Science Program</td>
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<tr>
<td>Interim Chair, Civil and Environmental Engineering</td>
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<td>Chair, Engineering Technology</td>
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<td>Chair, Industrial Engineering and Management Systems</td>
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<tr>
<td>Chair, Mechanical, Materials and Aerospace Engineering</td>
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<tr>
<td>Chair, Aerospace Studies (Air Force ROTC)</td>
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<tr>
<td>Chair, Military Science (Army ROTC)</td>
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### College of Health and Public Affairs

<table>
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<tr>
<th>College</th>
<th>Dean</th>
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<tbody>
<tr>
<td>College of Health and Public Affairs</td>
<td>Belinda R. McCarthy</td>
<td>Joyce E. Dornor</td>
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<tr>
<td>Associate Dean, Operations</td>
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<tr>
<td>Interim Associate Dean, Resource Planning and Management</td>
<td>Stephen Holmes</td>
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<tr>
<td>Associate Dean, Research and Graduate Studies</td>
<td>Kenneth Adams</td>
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<tr>
<td>Assistant Dean, Undergraduate Studies</td>
<td>Pamela E. Kirby</td>
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<tr>
<td>Assistant Dean, Student Affairs</td>
<td>Melvin Rogers</td>
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<tr>
<td>Chair, Communicative Disorders</td>
<td>R. Jane Lieberman</td>
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<tr>
<td>Chair, Criminal Justice and Legal Studies</td>
<td>Bernard J. McCarthy</td>
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<tr>
<td>Chair, Health Professions</td>
<td>Diane Jacobs</td>
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<tr>
<td>Chair, Molecular Biology and Microbiology</td>
<td>Jean Leuner</td>
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<tr>
<td>Director, School of Nursing</td>
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<tr>
<td>Chair, Public Administration</td>
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<tr>
<td>Director, School of Social Work</td>
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<td>Director, Student Support</td>
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### Rosen School of Hospitality Management

<table>
<thead>
<tr>
<th>College</th>
<th>Dean</th>
<th>Associate Dean</th>
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<tbody>
<tr>
<td>Rosen School of Hospitality Management</td>
<td>Abraham Pizam</td>
<td>Stephen LeBruto</td>
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</table>

### Colleges, Schools, and Departments

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>Dean</th>
<th>Associate Dean</th>
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<tbody>
<tr>
<td>College of Arts and Sciences</td>
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<tr>
<td>Associate Dean, students</td>
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<td>Associate Dean, faculty</td>
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<td>Associate Dean, budget</td>
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<tr>
<td>Assistant Dean, research</td>
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<td>Assistant Dean, graduate programs</td>
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<td>Assistant Dean, undergraduate programs</td>
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<tr>
<td>Director, Liberal Studies Program</td>
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<tr>
<td>Director, OASIS</td>
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<tr>
<td>Director, School of Communication</td>
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<tr>
<td>Interim Director, School of Film and Digital Media</td>
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<tr>
<td>Chair, Art</td>
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<td>Chair, Chemistry</td>
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<tr>
<td>Interim Chair, English</td>
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<td>Chair, Foreign Languages and Literatures</td>
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<tr>
<td>Chair, History</td>
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<td>Chair, Mathematics</td>
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<td>Chair, Music</td>
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<tr>
<td>Chair, Philosophy</td>
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<tr>
<td>Interim Chair, Physics</td>
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<tr>
<td>Chair, Political Science</td>
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<td>Chair, Psychology</td>
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<td>Chair, Sociology and Anthropology</td>
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<tr>
<td>Chair, Statistics</td>
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<td>Chair, Theatre</td>
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<table>
<thead>
<tr>
<th>The Burnett Honors College</th>
<th>Dean</th>
<th>Associate Dean</th>
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<tbody>
<tr>
<td>The Burnett Honors College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dean</td>
<td>Allyn MacLean Steamman</td>
<td></td>
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<tr>
<td>Associate Dean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Director of Undergraduate Research and Civic Engagement</td>
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<tr>
<td>Director of Student Services</td>
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<tr>
<td>Director of Computer Operations</td>
<td></td>
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</tr>
<tr>
<td>Director of Student Affairs</td>
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</table>
## 2004 - 2005 FALL / SPRING ACADEMIC CALENDARS

<table>
<thead>
<tr>
<th>Event</th>
<th>Fall 2004</th>
<th>Spring 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for Graduate International students</td>
<td>Feb. 1</td>
<td>Aug. 1</td>
</tr>
<tr>
<td>Application deadline for Undergraduate International students</td>
<td>March 1</td>
<td>Sep. 1</td>
</tr>
<tr>
<td>Application deadline for all Undergraduate applicants and transfers</td>
<td>May 1</td>
<td>Nov. 1</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>July 15</td>
<td>Nov. 15</td>
</tr>
<tr>
<td>Registration and Add/Drop</td>
<td>April 5 - Aug. 22</td>
<td>Oct. 25 - Jan. 9</td>
</tr>
<tr>
<td>Graduation Application due in college advising office¹</td>
<td>July 30</td>
<td>Dec. 3</td>
</tr>
<tr>
<td>Residence halls open</td>
<td>Aug. 18 (11:00 a.m.)</td>
<td>Jan. 7 (1:00 p.m.)</td>
</tr>
<tr>
<td>Registration time for State Employees, Non-degree,</td>
<td></td>
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</tr>
<tr>
<td>Transients and Audits (begins 3:00 p.m.)</td>
<td>Aug. 20</td>
<td>Jan. 7</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and STEP (begins 3:30 p.m.)</td>
<td>Aug. 20</td>
<td>Jan. 7</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Aug. 23</td>
<td>Jan. 10</td>
</tr>
<tr>
<td>Late Registration² and Add/Drop¹</td>
<td>Aug. 23-27</td>
<td>Jan 10 - 14</td>
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<tr>
<td>Last day for full refund¹</td>
<td>Aug. 27</td>
<td>Jan. 14</td>
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<tr>
<td>Grade Forgiveness deadline¹</td>
<td>Aug. 27</td>
<td>Jan. 14</td>
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<tr>
<td>Payment Deadline²</td>
<td>Sep. 3</td>
<td>Jan. 21</td>
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<tr>
<td>CLAST test (register by September 3)</td>
<td>Oct. 2</td>
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<tr>
<td>Withdrawal deadline¹</td>
<td>Oct. 22</td>
<td>Mar. 4</td>
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<tr>
<td>VA deferral payment deadline¹</td>
<td>Nov. 19</td>
<td>Apr. 8</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete³</td>
<td>Dec. 4</td>
<td>Apr. 25</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>Dec. 6-11</td>
<td>Apr. 26 - Mar. 2</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>Dec. 12</td>
<td>May 3</td>
</tr>
<tr>
<td>Commencement</td>
<td>Dec. 13-14</td>
<td>May 5 - 7</td>
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<tr>
<td>Grades due in Registrar's Office</td>
<td>Dec. 15</td>
<td>May 5</td>
</tr>
<tr>
<td>Grades Available on POLARIS (begins 9:00 a.m.)</td>
<td>Dec. 17</td>
<td>May 7</td>
</tr>
</tbody>
</table>

**NOTE:** Dates are subject to change. Consult the Schedule Web Guide and online Academic Calendar (www.ucf.edu/toplinks/academic_calendar.html) for information. All undergraduate degree-seeking students are required to attend Orientation prior to 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 $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.
3 Incomplete grades must be removed within one year of the 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>
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</thead>
<tbody>
<tr>
<td>Labor Day Holiday</td>
<td>Sep. 6, 2004</td>
</tr>
<tr>
<td>Homecoming Week (classes still held)</td>
<td>Nov. 1-6</td>
</tr>
<tr>
<td>Veteran's Day Holiday</td>
<td>Nov. 11, 2004</td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>Nov. 25 - 27, 2004</td>
</tr>
<tr>
<td>Martin Luther King Jr. Holiday</td>
<td>January 17, 2005</td>
</tr>
<tr>
<td>Spring Break - Holiday</td>
<td>March 14 - 19, 2005</td>
</tr>
<tr>
<td>Memorial Day Holiday</td>
<td>May 30, 2005</td>
</tr>
<tr>
<td>Independence Day Holiday</td>
<td>July 4, 2005</td>
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[UCF logo]
### SUMMER 2005 ACADEMIC CALENDAR

<table>
<thead>
<tr>
<th>Summer 2005</th>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
<th>Session D</th>
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</thead>
<tbody>
<tr>
<td>Application deadline for all undergraduate applicants and transfers</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>Application Deadline for Graduate Programs without deadlines</td>
<td>April 15</td>
<td>April 15</td>
<td>April 15</td>
<td>April 15</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 due in college advising office</td>
<td>April 25</td>
<td>April 25</td>
<td>April 25</td>
<td>April 25</td>
</tr>
<tr>
<td>Residence halls open (11:00 a.m.)</td>
<td>May 15</td>
<td>June 24</td>
<td>May 15</td>
<td>May 15</td>
</tr>
<tr>
<td>Registration for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>May 13</td>
<td>June 24</td>
<td>May 13</td>
<td>May 13</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>May 13</td>
<td>June 24</td>
<td>May 13</td>
<td>May 13</td>
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<tr>
<td>Classes begin</td>
<td>May 16</td>
<td>June 27</td>
<td>May 16</td>
<td>May 16</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>May 16-20</td>
<td>June 27-July 1</td>
<td>May 16-20</td>
<td>May 16-20</td>
</tr>
<tr>
<td>Fees due; Last day for full refund</td>
<td>May 20</td>
<td>May 20</td>
<td>May 20</td>
<td>May 20</td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>May 20</td>
<td>July 1</td>
<td>May 20</td>
<td>May 20</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>June 3</td>
<td>July 15</td>
<td>June 24</td>
<td>June 15</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>July 29</td>
<td>July 29</td>
<td>July 29</td>
<td>July 29</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete</td>
<td>June 24</td>
<td>August 5</td>
<td>August 5</td>
<td>July 18</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>June 24</td>
<td>August 5</td>
<td>August 5</td>
<td>July 18</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>June 25</td>
<td>August 6</td>
<td>August 6</td>
<td>July 19</td>
</tr>
<tr>
<td>Grades due in Registrar's Office</td>
<td>June 29</td>
<td>August 10</td>
<td>August 10</td>
<td>July 21</td>
</tr>
<tr>
<td>Grades Available on POLARIS (begins 9:00 a.m.)</td>
<td>June 30</td>
<td>August 12</td>
<td>August 12</td>
<td>July 22</td>
</tr>
<tr>
<td>Commencement</td>
<td>August 6</td>
<td>August 6</td>
<td>August 6</td>
<td>August 6</td>
</tr>
</tbody>
</table>

### University Holidays

- **Memorial Day Holiday** .................. May 30, 2005
- **Independence Day Holiday** ............. July 4, 2005

**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/toplinks/academic_calendar.htm) for information.

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

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1 Ends at 5:00 p.m. on last day
2 Summer B payment deadline for all students who register 3/28 - 5/20; Summer B payment deadline for all students who register 5/21 - 7/1.
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.
Administrative Procedures Act Policy Statement
The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this Undergraduate Catalog. The Undergraduate Catalog is published once a year and cannot always reflect new and modified regulations. Statements in this Undergraduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida. While every effort will be made to accommodate the curricular needs of students, limited resources may prevent the University from offering all required courses in each semester or in day and evening sections.

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

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

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

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

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

Drug-Free Workplace/Drug-Free Schools Policy Statement
Standards of conduct and disciplinary sanctions will be imposed for the unlawful possession, misuse or distribution of illicit drugs and alcohol by UCF students and employees on UCF property or as part of any of its activities. The unlawful manufacture, distribution, dispensation, possession or misuse of a controlled substance, prescription medication or the unlawful possession and use of alcohol is harmful and prohibited in and on UCF owned and controlled property 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 materials may also constitute cheating.
- Plagiarism, whereby another’s work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.

**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-mail correspondence to instructors or fellow students. In addition, many UCF courses require the use of the Internet.

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

Students wishing to acquire a personal computer are strongly advised to consider a laptop equipped with a wireless networking card. Recommended configurations can be found on the University’s Web site at http://www.cstore.ucf.edu/store/standards.html

**Student Responsibility for University Communication**

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

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

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

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

Students can update their contact information on-line at https://connect.ucf.edu.
The University of Central Florida, a member institution of the State University System, formerly was named Florida Technological University. The name was changed by action of the Florida Legislature on December 6, 1978.

**Mission Statement**

The University of Central Florida is a public, multi-campus, metropolitan research university, dedicated to serving its surrounding communities with their diverse and expanding populations, technological corridors, and international partners. The mission of the university is to offer high-quality undergraduate and graduate education, student development, and continuing education; to conduct research and creative activities; and to provide services that enhance the intellectual, cultural, environmental, and economic development of the metropolitan region, address national and international issues in key areas, establish UCF as a major presence, and contribute to the global community.

**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 Arts and Sciences</th>
<th>Accrediting Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>American Chemical Society (ACS)</td>
</tr>
<tr>
<td>Music</td>
<td>National Association of Schools of Music (NASM)</td>
</tr>
<tr>
<td>Business Administration (all disciplines)</td>
<td>The Association to Advance Collegiate Schools of Business (AACSB)</td>
</tr>
<tr>
<td>Education (all disciplines)</td>
<td>State Accreditation-Florida Department of Education; National Council for Accreditation of Teacher Education (NCATE)</td>
</tr>
<tr>
<td>Engineering and Computer Science</td>
<td>Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)</td>
</tr>
<tr>
<td>Aerospace, Civil, Computer, Electrical, Environmental, Industrial, and Mechanical Eng</td>
<td>Baltimore, MD 21202-4012</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computing Accreditation Commission (CAC) of ABET</td>
</tr>
<tr>
<td>Engineering Technology (Electrical Engineering Technology and Engineering Technology)</td>
<td>111 Market Place, #1050</td>
</tr>
<tr>
<td>Health and Public Affairs</td>
<td></td>
</tr>
<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 (CAHPI)</td>
</tr>
<tr>
<td>Health Information Management</td>
<td>American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAHPI)</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 (ACPCHA)</td>
</tr>
</tbody>
</table>

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

**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, 123,000 alumni, and 8,400 faculty and staff. The University offers 84 bachelor’s degrees, 64 master’s degrees, three specialist degrees and 23 Ph.D. degrees as well as more than 65 graduate certificate programs. In addition to offering classes on the 1,415-acre main campus in Orlando, UCF’s regional campuses serve students throughout an 11-county area in Central Florida. More than 13,000 students are enrolled in online courses.

UCF today is known locally as the university that is “Under Construction Forever.” Students and faculty enjoy state-of-the-art wireless classrooms and modern facilities, including a Barnes and Noble Bookstore with a cyber cafe, 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 School 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 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://connect.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 class-room time (reduced seat time).

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

These types of courses will require access to the Internet, web-browsing knowledge, ability to use email, and basic computer skills such as word processing. Students can also expect to encounter similar Internet requirements in any course offered by UCF, regard-
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. Available programs include 32 Bachelor's programs, 22 minors and certificates, 16 master's degrees, 10 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 serves an 11-county service area, which includes Brevard, Citrus, Flagler, Lake, Levy, Marion, Osceola, Orange, Seminole, Sumter and Volusia Counties. UCF Regional Campus locations are comprised of a system of campuses, centers and sites and provide a wide variety of learning styles and schedules, including web class availability. For the most current information on any of the 21 UCF Regional Campus locations with directions, check the website at www.regionalcampuses.ucf.edu

Admissions, Registration, Financial Assistance and Advising professionals are available at the following full-service campuses: UCF at Cocoa, UCF at Daytona Beach, and UCF at South Lake. In addition, advising is available through UCF at Sanford/Lake Mary and UCF at Palm Bay.

UCF Regional Campuses
Central Administration
Millican Hall, MH 331
407-823-4910

Administration
Interim Provost, UCF Regional Campuses Michael J. Sweeney
Asst. Vice President, Central Region Director David Meador
Asst. Vice President, Eastern Region Director Bernard Jensen
Assoc. Vice President, Southern Region Director James Drake
Asst. Vice President, Western Region Director Cecelia Rivers
Administrative Assistant Barbara Rubright
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
Coord., Academic Support Services Diane-Joy Colarusso
Asst. Director, Academic Support Services Rachael Gregory
Budget Specialist Bruce Whistler

Communications
Associate Director, University Relations Karen Jans
Web Administrator Tony Recascino
Graphic Designer Mary Lou Wade

Technology Services
Interim Director, Technology Kirk Henry

All locations provide students with an opportunity to enroll in selected courses (junior and senior level or graduate level) contributing to undergraduate degrees in a variety of disciplines within the University. The following lists full degree programs by specific location:

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

Central Region Director, Assistant Vice-President David Meador
Interim Central Region Associate Director Rachael Gregory

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

Eastern Region:
UCF at Daytona Beach (Full-Service Campus)
1200 W. International Speedway Blvd.
Daytona Beach, Fl 32114-0800

UCF at Deland
UCF at DeLand
UCF at Palm Coast
UCF at New Smyrna
UCF at Sanford/Lake Mary

For information: 386-506-4021

Eastern Region Interim Director Bernard Jensen
Eastern Region Associate Director David Laney
Assistant Director, Admissions, Registration, Records Tena Harris
Program Assistant, Admissions, Registration Sheri Newble-Dunn
Coordinator, Financial Aid Charlene Driver
Assistant Director, Academic Support Services Keith Branhman
Coordinator, Academic Support Services Leeann Davis
Coordinator, Academic Support Services Cindy Thomas
Coordinator, Academic Support Services Raphel Robinson
Director, Campus Life Diana Weidman

Computer Technology Germaine G. Washington

UCF at Daytona 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.)
Vocational Education (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

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.
University of Central Florida

Health Sciences
Health Services Administration (Web-based)
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.)
Vocational Education (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 Program
Educational Leadership (Ed.D.)

UCF at Sanford/Lake Mary
Undergraduate 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.)

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

UCF at DeLand
Undergraduate 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 Kennedy Space Center (Laboratory Site)
UCF at Palm Bay

UCF at Sanford/Lake Mary
Undergraduate 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.)

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

Graduate Programs
Applied Sociology
Business Administration (M.B.A.)*
Criminal Justice
Health Sciences: Health Services Administration
Educational Leadership
Engineering FEEDS/ITV
Elementary Education
Exceptional Education
Industrial Engineering and Management Systems
Public Administration
Vocational Education (Web-based)

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.)

UCF at DeLand
Undergraduate 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 Kennedy Space Center (Laboratory Site)
UCF at Palm Bay

UCF at Sanford/Lake Mary
Undergraduate 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.)

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

UCF at DeLand
Undergraduate Programs
College of Education
Early Childhood Education (B.S.)

Graduate Programs
Applied Sociology
Business Administration (M.B.A.)*
Criminal Justice
Health Sciences: Health Services Administration
Educational Leadership
Engineering FEEDS/ITV
Elementary Education
Exceptional Education
Industrial Engineering and Management Systems
Public Administration
Vocational Education (Web-based)

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.)
University Of Central Florida

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

College of Health and Public Affairs
- Communicative Disorders (B.A., B.S.)

Undergraduate Minors and Certificates
- Criminal Justice
- Organizational Communication
- Sociology

Graduate Programs
- Health Sciences: Health Services Administration

Western Region:
UCF at South Lake (Full-Service Campus)
1250 N. Hancock Rd.
Clermont, FL 34711
UCF at Celebration
UCF at Chiefland
UCF at Leesburg
UCF at Lehigh
UCF at Ocala
UCF at Osceola
UCF at South Orlando
UCF at Sumterville

For information: 352-536-2113
Western Region Director
Western Region Associate Director
Coordinator, Admissions and Registration
Academic Support Services
Coordinator, Ed Media/ITV (Telecomm's)

UCF at South Lake
Undergraduate 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

Graduate Programs
- Educational Leadership
- Exceptional Education

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

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

UCF at Osceola
Undergraduate Programs

Cecelia Rivers
Edgar Martinez
Selena Forrester
Jason Mayer

Endowed Chairs
Endowed chairs are established under the Florida Major Gifts Trust Fund, which provides $420,000 in state funds to match $600,000 in contributions from private sources within a five-year period. UCF presently has ten fully-funded endowed chairs and two others fully pledged:

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

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

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

**Carl H. Galloway Chair for Excellence in Business**: Created in 1986 to honor Carl Galloway, a pioneer in telecommunications. The Chair: David F. Scott, Jr.

**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.

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 employees training programs.

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**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 undergrad-
uate, 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 research or creative arts. This is the 
first chair to be established at the Daytona Campus. It is designed to 
serve as a unit of advocacy and support, assist in adjusting to a new academic 
Central Florida international community. Its main function is to serve as 
The International Services Center, a unit of the Division of Graduate 

David R. Dees; MH 210; 407-823-2691 

effort to provide outstanding undergraduate education. 

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

University Ombuds Office is located in Millican Hall, room 338F. 

authorized by the complainant, or otherwise required by applicable 
procedures are services of the office. All proceedings in individual cases 
individuals explore options, offer suggestions and advice, and assist in 
social, housing, consumer, work-related, or personal. The University 
Ombuds Officer is a neutral facilitator, and will listen to concerns, help 
mediate conflict, and guide the international students and scholars within the University 

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

Mildred W. Coyle Eminent Scholar Chair: Created in 2000 to 
support the teaching and research of an internationally recognized 
University Ombuds Office 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 suggestions and advice, and assist in 
the resolution of the concern. Referral and direction to appropriate 
individuals and offices, and clarification of University policies and 
procedures are services of the office. All proceedings in individual cases 
will be held confidential by the Ombuds Officer unless otherwise 
authorized by the complainant, or otherwise required by applicable 

Mildred W. Coyle Eminent Scholar Chair: Created in 2000 to 
support the teaching and research of an internationally recognized 

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

University Ombuds Office 
The Office of the Ombuds Officer provides members of the University 
community assistance and advice regarding concerns related to the 
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University Of Central Florida

their non-immigrant visa status. This includes issuing necessary 
USCIS documents to facilitate visa issuance abroad, transfer procedure 
and employment authorization. Counseling and assistance on personal, financial, academic, and cultural concerns also are given to 
guide the international students and scholars within the University 
community. The ISC is committed to providing accurate, updated and 
timely information on issues and needs pertinent to international stu 
dents and scholars. Another important role of the Center is to enhance international awareness and cross cultural understanding through edu 
cational, cultural and social programs and activities. 

UCF Public Safety and Police 
The UCF Police Department is a full-service law enforcement 
agency. The 40 certified police officers provide police services twen 
ty-four hours a day, seven days a week. The 

Knight's Safety Guide presents an overview of all police services 
and offers crime prevention, personal safety tips, and campus crime statistics in 
can be found on the UCFPD website at: http://police.ucf.edu, and is 
available upon request. 

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 

Information Technologies and Resources 
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. Scharf; 
LR 512; 407-823-2564 


From any location, at any time, University Libraries resources and 

International Services Center 
Director: Saleha Suleman; CMMS (Building #81); 407-823-2337 

The International Services Center, a unit of the Division of Graduate 
Studies, provides assistance and information to the University of 
Central Florida international community. Its main function is to serve as 
a unit of advocacy and support, assist in adjusting to a new academic 
environment and culture, and provide immigration and other advising to prospective, new and currently enrolled international students and 

Chair: Angeline A. Bushy.

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

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

Linda Chapin Eminent Scholar Chair in Tourism Management: 
Created in 2002 to support the teaching and research of an interna 
tionally recognized scholar in tourism management. Chair: Abraham Pizam
services are available to the UCF community. The University Libraries maintains rapidly growing collections of electronic resources, including nearly 400 databases, 30,000 e-books, and 4,000 of the 11,700 current serials subscriptions, as well as a traditional print collection over the Libraries' volumes. The Libraries' collections also include 2.8 million microforms, 38,000 media titles, and partial depository collections of Federal 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/hours.htm 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 30 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 can be reached 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 in-depth research consultation. http://library.ucf.edu/askl connects students with a Librarian, where questions are submitted and answered in a real time, hands-on, session, via email, or by telephone at 407-823-2562, or toll-free at 866-271-7589.

The Interlibrary Loan and Document Delivery Services Department (ILL) assists students in obtaining materials not owned by the UCF Libraries, but are owned by other libraries worldwide. Most 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 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 cannot be easily replaced, include 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. Libraries partner with other university libraries and local institutions in Central Florida Memory, Florida Heritage, and similar projects to provide digital access to special and historic images and documents.

The Curriculum Materials Center (CMC), a unit of 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/CMS or call 407-823-2791.

The Rosen Library, a new branch of UCF Libraries, is located at the Rosen School 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 Rosen 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: 407-803-5257.

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 Yankello; CSB 305; 407-823-2711

Computer Services and Telecommunications provides central support for administrative data processing, academic computing support, telecommunications networks, e-mail, campus telephone services, training, user help, and microcomputer sales and support. Academic and administrative computing is supported primarily through the following systems: Sun Enterprise 6800, V880, 5XXX systems, Novell LAN fileserver, and other Internet and campus facilities. Four public access PC labs, available to all faculty and students, are located around campus. Two labs are in Computer Center II: Main Lab West (CCII 104) and Main Lab East (CCII 113). The other labs are located in the following buildings: Classroom 1 (CL 101) and Magruder lab in Business Administration (BA 148). UNIX equipment is available in CCII-113. Most labs are open seven days a week with extended hours. The CyberKnight Center is located in CCII to assist students with computer and internet needs.

Online access to registration, grades, and financial aid information services are available from POLARIS (https://connect.ucf.edu/). Campus kiosk workstations are available in the following buildings: Millican, Library, Business Administration, College of Health and Public Affairs, Computer Science, Colburn, Howard Phillips, Bookstore, Education, Communication, Visual Arts, Math/Physics, Biology, Chemistry, Engineering, CREOL, and Downtown, Daytona, and Cocoa Campuses. Additional information is available on-line at http://www.it.ucf.edu/.

Computer accounts are provided to all students, faculty, and staff for access to e-mail, public computer labs, and the campus backbone network.

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

Main campus telephone services are provided by the Teledata Services Department's Siemens PBX. Campus residence students have the option to subscribe to voicemail and access to the long distance carrier of their choice. AT&T is the primary long distance provider to the campus.

Office of Instructional Resources

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

The Office of Instructional Resources (OIR) supports UCF administrators, faculty, and staff with multimedia design and production, digital media webcasting, ISDN video conferencing, video over IP, interactive video course delivery, video production, audio production, photography, graphics, and a full range of multimedia classroom support services. OIR manages UCF's interactive video network, which includes eight origination rooms on the 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 169) in the Central Florida Research Park. In association with its community partners, OIR offers faculty access to state-of-the-art digital imaging technologies including digital image processing, digital document scanning, and CD-ROM production. OIR's Faculty Multimedia Center (CL 1 A202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR's Interactive Video Classroom (CL 1320) 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 200 advanced multimedia classrooms and eight interactive video origination classrooms located throughout the campus. Multimedia equipment for classroom use may be checked out from Multimedia Classroom Support (CL 115) by calling: 407-803-5257.

OIR provides UCF with a full array of distributed-learning delivery systems, including an interactive video network that serves eight rooms on the Orlando campus; UCF Downtown; UCF at Daytona, UCF at Cocoa, UCF at Palm Bay, UCF at MetroWest (Valencia), UCF at South Lake (Clermont), UCF at Kennedy Space Center, UCF at South Orlando, and other regional locations. OIR provides 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) supports major institutional Web initiatives, including online learning (http://reach.ucf.edu), UCF's main web site (http://www.ucf.edu), web portal applications, and special projects such as the AskUCF online Q and A service (http://ask.ucf.edu), and the UCF Virtual Tour (http://www.ucf.edu/tour).

CDWS brings to these projects extensive production resources and staff skilled in project management, instructional design, digital media, video, new media, and Web programming.

CDWS also provides professional development activities for faculty and staff. Examples include IDL6543 (http://reach.ucf.edu/~idl6543), ADL5000 (http://reach.ucf.edu/~adl5000), WebCT Academy (http://reach.ucf.edu/~webct411), and Web Development Academy (http://reach.ucf.edu/~webdev).

CDWS provides student support through the Learning Online Web site (http://learn.ucf.edu) and provides faculty support through the Teaching Online Web site (http://teach.ucf.edu). Students also play an active role in supporting CDWS projects. A student Web programming team called the Techrunners builds online courses and other Web projects and also conducts Web-related research and development activities.

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

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

Graduation Rate Disclosure
The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking undergraduate students who are enrolling for the first time at the institution, and who have not previously enrolled at any other institution of higher education, either complete or graduate from their programs. The freshman retention rate for Fall 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, 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 407-823-2355 or visit the website at http://ucf.bookstore.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 Milican 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 ensemble 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 “Shakespeareience”. 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, Fax 407/447-1701

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

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

- Enjoy an extraordinary list of 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, AlumnKnight Outs, cultural events, pre-game events, KnightFest, community service projects, travel getaways and road trips.
- Career services through a partnership with iplacement, which offers a career search program that gives alumni easy, 24-hour access to timely employment information online.
- Members-only access and discounts to several UCF facilities such as the Recreation and Wellness Center, borrowing privileges at the UCF Library and room rental services at the UCF Student Union (great for weddings or meetings).
- Timely information via Pegasus, the award-winning alumni magazine (mailed 6 times per year), the Inside Scoop e-newsletter and access to member-only areas of www.ucfalumni.com our website.

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, visit the UCF Alumni Association located in The Research Pavilion, 2242 Research Parkway, Suite 301, 407-UCF-ALUM (823-2586); toll-free (800) 330-ALUM; or connect anytime at www.ucfalumni.com

UCF Foundation, Incorporated
The UCF Foundation, Incorporated is a non-profit, tax-exempt corporation directed by a 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.
Division of Student Development and Enrollment Services

Vice President for Student Development and Enrollment Services:
Thomas Huddleston, Jr.; 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 and complement the educational mission of the University while simultaneously improving the student’s total collegiate experience.

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

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

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

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

Academic Development and Retention
Associate Vice President: Maribeth Ehasz; MH 210; 407-823-2691
http://www.ad.sdes.ucf.edu

To facilitate 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: Karl P. Mooney; 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; WDSC 123; 407-823-5243

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

First Year Transitions (FYT)
Assistant Vice President: Mark Allen Poisel; PH 216; 407-823-2137
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 coordinates the offices of First Year Advising and Exploration, Orientation Services, and Transfer Services. A strong common component of First Year Transitions is the Academic Exploration Program for undeclared students and major changers. For more information, visit FYT’s website at http://fyt.sdes.ucf.edu.

Academic Exploration Program (AEP) 407-823-5322
The Academic Exploration Program has been developed to provide structured experiences to assist students 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 coordinated 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: Robert E. Snow; PH 116; 407-823-3789
http://firstyear.sdes.ucf.edu
UCF recognizes that starting in a new learning environment can present many challenging life transitions for incoming freshmen students. First Year Advising and Exploration has been established to prepare and advise first-time-in-college students who are not assigned to other first-year advising offices. The overarching mission of the office is to assist first-year students by providing numerous academic advising support services and other programs that will lead to their overall satisfaction, success and retention at UCF. Students who have not selected a major (Undeclared) are provided focused advising support services 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. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised through this office. For further information, visit Howard Phillips Hall, room 116, or the FYAE website at http://firstyear.sdes.ucf.edu.

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

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

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

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

- General advising and referral for transfer students before and after they enroll at UCF;
- Advising for transfer students who are undeclared majors, undecided, or changing majors;
- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities;
- Articulation workshops involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions;

For more information, visit the Transfer Services website at http://transfer.sdes.ucf.edu.

Student Academic Resource Center (SARC)
Director: DeLaíne 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 (CLASS) 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: TBA; PH 107; 407-823-5109
www.sarc.sdes.ucf.edu

The University Testing Center administers the state College Level Academic Skills Test (CLASS) and the Computer-Adapted CLASS (CAT-CLASS); 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.

Career Resource Center (CRC)
Director: Melanie Parker; SRC 185; 407-823-2361
http://www.crc.sdes.ucf.edu

The Career Resource Center offers a comprehensive range of services to help UCF students of any major reach their academic and career goals with a talented staff of career specialists, an all-inclusive career library and state-of-the-art recruiting tools. These comprehensive services are designed to help first-year through graduate students manage their career planning issues, including:

- Choosing and confirming educational and career choices through career assessment tools, a 500+ volume career library, walk-in career advising, career counseling, small groups, workshops, and special programs;
- Gaining career-related experience through an alumni mentoring and career shadowing program, listings of internship opportunities, an annual Internship Fair, and the Lockheed Martin Work Experience Program, which provides over 200 students annually with technical, business, and engineering experience;
- Developing the skills necessary for an effective job search through job search skills and business etiquette workshops; library resources on resumes, cover letters, and interviewing; resume and cover letter critique; and a practice interview program; and
- Searching for full-time employment and connecting with employers through the GOLD Connection, the center’s recruitment management system; the on-campus interviewing program; online job listings; eight annual job fairs; company presentations; and the resume referral system.

The CRC is open Monday through Friday. Walk-in advisors are available from 10:00 a.m. to 4:00 p.m. For more information, visit our website at http://www.crc.sdes.ucf.edu.

Counseling Center
Director: Robert Harman; SRC 203; 407-823-2811
http://www.counseling.sdes.ucf.edu

The Counseling Center is the only campus agency designated to provide psychological services to University enrolled students. The Center is composed of a professional staff of psychologists and mental health counselors who provide both a confidential atmosphere and a safe environment in which students may explore and resolve issues of concern. The Center maintains and assures confidentiality as provided by law. The Center is open Monday through Friday and operates on an appointment basis. The following counseling services are offered:

- Personal Counseling
Division Of Student Development And Enrollment Services

- Career Counseling
- Couples/Conjoint Counseling
- Group 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, online Schedule Web Guide, the efficient utilization of classroom resources, residency reclassifications, student veteran services, and commencements.

Veteran Services
Interim Assistant Director: H. Lee Parker; MH 149; 407-823-2707; http://www.va.sdes.ucf.edu

Veteran Services is a center for all veteran students and eligible dependents who are using VA educational benefits to further their education. The office provides information concerning entitlements, filing claims to the Department of Veterans Affairs (DVA), certifying enrollment at the University, and deferring tuition and fee payments. The office also provides counseling for personal and academic concerns and referral to various community agencies. Veterans and eligible dependents must be certified through the Veteran Services 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.

Veteran Benefits
Students who are 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 contained in the UCF "Student Veteran Handbook" and VA rules and regulations. A copy of the "Student Veteran Handbook" can be obtained at Veteran Services and on the website.

Veteran Services evaluates and awards transfer credit for military training and education in accordance with Department of Veterans Affairs regulations and UCF policies. Credit is awarded for 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 or other official military records. U.S. Air Force veterans are to provide official copies of Community College of the Air Force transcripts to the Undergraduate Admissions office. Students eligible for VA educational benefits may also be eligible for a VA Deferral of tuition and fees. The VA Deferral due date is contained in the "Academic Calendar" of this Undergraduate Catalog. Students eligible for financial aid adequate to cover tuition and fees are not eligible for this deferment.

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

Students concurrently enrolled at UCF and another institution may receive VA educational benefits, but first must consult with the Veteran Services offices to obtain "Transient Permission Form" approval as needed. Veterans and eligible dependents who desire to change their major, or who pursue a double major or dual degree, or who add a minor may receive VA benefits but must make arrangement through the Veteran Services before taking any of the applicable courses. This includes a minor in military science. NOTE: Some majors may have extra electives that can be filled with courses for a minor or another major.

To continue to receive VA educational benefits, students must maintain satisfactory academic progress and conduct. Accordingly, benefits will be terminated for individuals who are disqualified, excluded, suspended, or expelled from the University. If reinstated by the University following disqualification, exclusion, suspension, or expulsion, the veteran or eligible dependent must contact Veteran Services to have their VA educational benefits re-activated.

Individuals placed on academic probation will continue to receive benefits as long as he or she earns a 2.0 or higher GPA each term. For students who fail to maintain satisfactory academic progress, benefits will be terminated once the required semester hours of course work for the program of study are completed, regardless of the GPA or eligibility for graduation.

Veteran and eligible dependents also may draw VA benefits during the periods of eligibility while on cooperative education assignments. Payment is received during both the on-campus semester and the off-campus work terms. Contact Veteran 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 services consistent with the student's documented disability. Such services may include, but are not limited to, orientation to classrooms and facilities, assistance facilitating academic accommodations, assistance with course registration, counseling, and referral to campus and community services for students with disabilities.

To be eligible for disability-related services, individuals must have a documented disability as defined by applicable federal and state laws. Services are available to students whose disabilities include, but are not limited to, hearing impairment, manual dexterity impairment, mobility impairment, specific learning disability (such as dyslexia), speech impairment, visual impairment, or other disabilities requiring administrative or academic accommodations. Individuals seeking services 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 or services must contact Student Disability Services for an intake interview to be eligible to receive disability accommodations/services. 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. Information and assistance are available for faculty members working with students with disabilities. A Telecommunication Device for the Deaf (TDD)/Text Telephone (TTY) is available for hearing-impaired or speech-impaired persons with TDs/TTys to contact Student Disability Services. Telephone 407-823-2116 for TDD/TTY calls only.

Administrative Student Support 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. Pavlowski; SU 215; 407-823-5548
http://www.asfbusinessoffice.ucf.edu

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

In addition, our office manages the operation of the Student Government Computer Lab, which is located in SU 219. The Student Government Computer Lab has 41 computer stations available and is the only lab that provides FREE printing to currently enrolled students. Our office also manages the Student Government Ticket Center which sells a variety of discounted tickets to local amusement parks and movie theaters, and is also an authorized
Division Of Student Development And Enrollment Services

Alcohol and Other Drug Programming

Director: Laura Riddle; MH 272; 407-823-0879 http://www.goldenrule.sdes.ucf.edu/14_Drug-Free.html

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.

REACH Health and Peer Education Program

Coordinator: Tanya Cepero and Brooke Williams; 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


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

Florida Foundation for Future Scientists (FFFS)

Executive Director: Nancy Besley; MH 282; 407-823-4347 http://www.fffs.ucf.edu/

The Florida Foundation for Future Scientists is a statewide, non-profit organization authorized by the 1957 Legislature of the State of Florida to discover scientific and technical talent in the schools of Florida and to encourage the pursuit of careers in science and engineering. FFFS provides many services including the State Science and Engineering Fair (SSEF) of Florida and the establishment of guidelines, rules and procedures for local, regional and statewide competitions. The FFFS is housed at UCF in Orlando. Major programs and operating expenses are financed by grants and contributions from federal agencies, the State Legislature, private industries, businesses, professional organizations, and individuals.

Campus Life

Associate Vice President: Craig E. Ulloim; 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, Student Involvement, Office of Faiths and Ministries, Student Union, Recreation and Wellness Center and Intramural Sports, Student Rights and Responsibilities, Student Conduct, Dispute Resolution, Student Legal Services, Student Health Services, Housing and Residence Life, LINK First Year Experience, Affiliated Housing, Creative School for Children, Multicultural Academic and Support Services, Rosen School 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 five residential communities- Apollo, Libra, Lake Claire Courtyard Apartments, Nike, and Hercules- house approximately 3,800 students. On-campus residence halls offer double occupancy rooms with a shared bath in suite-style configurations. Single rooms with shared bath are available in the apartment facilities. Because of the limited amount of space, the University does not have a mandatory housing requirement. No on-campus accommodations are available for families or married couples.

80% of the housing capacity is reserved for new, incoming freshmen. Current residents occupy most of the remaining space. Applications for housing can be accepted only from those who have been admitted into the University. Therefore, those desiring to reside on campus should apply for admission to the University as soon as possible. On-campus housing cannot be offered to all 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 contract, when issued for the fall semester, is a two-year commitment (fall and spring semesters). Summer session contracts are for the summer only and do not extend to include the fall semester. 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. Specific information concerning University meal plans is available from UCF Dining Services, UCF PO Box 168017, Orlando, Florida, 32816. Web site: www.ucfdining.com.
UNIVERSITY OF CENTRAL FLORIDA

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

LINK (Learning and Interacting with New Knights) is specifically designed to help first-year students cope with the stressful transition to college and succeed here at UCF. LINK offers programs and activities in a timely and sequential format that supports the interests and needs of first-year students. SDES is partnered with many University departments in the delivery of LINK. First-year students have an opportunity to choose from a wide variety of programs and events offered by SDES that are targeted to address issues they face throughout the first year. From events such as the New Student Convocation, Block Parties, Late Knights, Majors Fairs, to Freshmen Frenzy, Homecoming, residence hall programs, and late night tutoring, LINK connects first-year students to UCF.

Off-Campus Student Services (OCCS)
Assistant Vice President and Director: Jimmy Watson; HAB 101; 407-823-6505;

Off-Campus Student Services assists students in their search for off-campus housing accommodations. The OCCS 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 OCCS 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) and UCF Eastern Region (Daytona; 386-255-7423) Campus Life offices provide student services at the branch campuses, including: orientation, career advising, veteran services, international student services, and accommodations for disabled students. In addition, the offices provide programs, assistance to clubs and organizations, and miscellaneous test information.

Student Government
Assistant Director of OS/SG Advisor: Shane Juntunen; SU 214; 407-823-2191
http://www.sga.ucf.edu

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

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

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

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 by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Center Business Office (at 407-823-1087). Please remember that optional health and accident insurance is not part of the Student Health Services program, but is designed to provide for health coverage needs that are beyond the scope of Student Health Services, such as hospital referrals. Charges incurred outside the Student Health Center are the responsibility of the student.

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

When the Student Health Center is closed, students may 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: William O. Faulkner; 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 class standing and/or level of involvement experience. The programs and activities will address both the short and long term developmental needs of students. Programs will vary in duration from a one-day workshop to an extended program that may involve weeks or months. The focus is to provide a variety of programmatic options that recognize students have different needs, time constraints, and levels of interest.

Greek Affairs
Director: Gregory Mason; SU 208; 407-823-2824;
(Greek Council Office, SU 208, 407-823-2072)
http://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).
LEAD Scholars Program

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

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

This program enables students to develop professionally through a special mentoring and 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 a bridge for participation in leadership opportunities as upper division students and in future community leadership roles.

Rosen School of Hospitality Management Campus Life

Director: Tony Perry
9907 Universal Blvd., Suite 201L
407-903-8072

Students’ campus life needs are met on the new Rosen School 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: Matt Boden; RS 102; 407-823-5337
http://www.ucm.sdes.ucf.edu

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

Student Rights and Responsibilities

Assistant Vice President and Director: Patricia 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: Nadine Hosni; 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 interpersonal disputes while promoting individual responsibility. Mediation is a private, voluntary, decision-making process in which one or more impartial persons (mediators) assist people, organizations, and communities in conflict to work toward a variety of goals. This service is available to the University community and is encouraged for those who have been unsuccessful in resolving their differences. Mediation training is conducted once per semester and is offered at two different levels: 1) a basic introduction to conflict resolution skills and mediation techniques session; and 2) 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

Coordinators: Dana Juntunen, TBA
SRC 154; 407-823-2851
http://www.osc.sdes.ucf.edu

The Office of Student Conduct addresses alleged violations of the “Rules of Conduct” contained within the student handbook, The Golden Rule. This office is also responsible for advising students of their rights during the Student Conduct Review Process, dean’s certification, and student eligibility checks. The Office of Student Conduct regularly publishes the student handbook, The Golden Rule, which contains more detailed information on student life. Copies may be obtained at SRC 154, or may be viewed on the web at http://www.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.sdes.ucf.edu

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

Recreation and Wellness Center
Director: TBA; 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 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.

Student Financial Assistance
Interim website: http://www.reachout.sdes.ucf.edu

The Office of Student Financial Assistance manages resources for all students. Due to confidentiality, counseling by phone and email is limited. Comprehensive counseling is available by appointment. Email: finaid@mail.ucf.edu

Student Outreach Programs
Interim Director: Rhonda C. Hall; OTC 600: 407-823-5580
http://www.reachout.sdes.ucf.edu

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

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)
Associate Director: Inez M. Ford; 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
Interim website: http://www.imsports.ucf.edu

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

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

Student Financial Assistance
Interim website: http://www.reachout.sdes.ucf.edu

The Office of Student Financial Assistance manages 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 email is limited.

Student Outreach Programs
Interim Director: Rhonda C. Hall; OTC 600: 407-823-5580
http://www.reachout.sdes.ucf.edu

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

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

Throughout the year, workshops, seminars and other activities and events are sponsored to support the student's personal development and academic achievement. Students are invited to the UCF campus for summer programs that provide an early introduction to college life and which equip students with unique approaches to attain college preparedness.
The Office of Undergraduate Admissions at the University of Central Florida coordinates the admission and enrollment of all undergraduate first-time-in-college, transfer, non-degree, and non-Florida state university transient students to the Orlando, Daytona, Clermont and Cocoa campuses. The office’s primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to and achieve growth and success at the University of Central Florida.

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

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

**Campus Tours**

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

Tours leave from the University Welcome Center at 10:00 a.m. and 2:00 p.m., Monday through Friday, except holidays. Group tours or special requests may be scheduled by calling Undergraduate Admissions at 407-823-5437.

Students are invited to participate in an information session held immediately after each campus tour. These sessions provide general information about the University and the application process. Meetings with Admissions Officers are available and are encouraged for those students who are finalizing their college plans.

Appointments can be made by calling the Undergraduate Admissions Office at 407-823-3000. Informative sessions and campus tours are available for students interested in the Rosen School of Hospitality Management. Please contact us at 407-823-2188 for further information.

**Undergraduate Admissions**

Asst. Vice President: Gordon D. Chavis, Jr., J.D.
Progress Energy University Welcome Center
407-823-3000; email: admission@mail.ucf.edu; website: http://pegasus.cc.ucf.edu/~admissio/
Undergraduate Admissions

Application for Admission
All interested applicants should complete the University of Central Florida “Undergraduate Admissions Application” and including the $30 in U.S. Currency, non-refundable application fee. Students may also apply online at our web site, http://pegasus.cc.ucf.edu/~admis/sio/application. Students should apply several months in advance of an anticipated start date. Mail admission applications to:
Undergraduate Admissions Office, University of Central Florida, P.O. Box 160111, Orlando, FL 32816-0111. Questions concerning admission requirements and applications should be forwarded to the same address or by calling 407-823-3000.

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

Applicants should understand that this Undergraduate Catalog outlines minimum requirements to be considered for admission and that admission to the University is selective. The satisfaction of minimum requirements does not guarantee admission. Conversely, Florida Department of Education policy allows the University to admit students to any semester as exceptions to the minimum requirements. The Undergraduate Admissions Office and the Admissions and Standards Committee are responsible for the admission of all undergraduate students under this policy.

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

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

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

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

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

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

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

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

Total Units: 18

Applicant Eligibility
All applicants must meet the following Department of Education (DOE) minimum eligibility index standards to be considered for Admission:
Admissions Application or apply online at UCF welcome transfer applications to the University. Students should submit either the University of Central Florida Undergraduate Admissions Application or apply online at http://pegasus.cc.ucf.edu/admission/ and arrange to have official transcripts sent from all colleges attended. The Undergraduate Admissions Office calculates 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 cumulative GPA of 2.5, and must have a minimum GPA of 2.0 and be eligible to return as a degree-seeking student to the last institution attended to be considered for admission to UCF. Meeting these minimum requirements does not guarantee admission. Transfer students are required to complete, at least, 30 hours in residence at UCF to earn a bachelor’s degree. In addition, students must complete 48 hours in residence at UCF to be eligible to receive baccalaureate honors recognition at the time of graduation. Transfer students are encouraged to review the current edition of UCF’s “Transfer Counseling Manual” available in Florida public community college counseling offices. The manual provides the recommended community college course requirements for all majors as well as other helpful information.

Transfer Applicants With Fewer Than 60 Credit Hours
All college transfer applicants with fewer than 60 semester hours of acceptable credit must minimally meet freshman high school unit entrance requirements, the high school academic GPA, and minimum SAT or ACT scores (as listed on previous pages); 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 acceler-

<table>
<thead>
<tr>
<th>If the High School GPA is:</th>
<th>Minimum test scores must be:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS GPA</td>
<td>SAT</td>
</tr>
<tr>
<td>2.0</td>
<td>1140</td>
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<td>2.1</td>
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<td>2.9</td>
<td>970</td>
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<tr>
<td>3.0</td>
<td>*</td>
</tr>
</tbody>
</table>

* No minimum score required.

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

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

- A student applying for admission who does not meet established requirements may bring to the University other important attributes or special talents and may be admitted if, 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 wish to enroll at the University as full-time students for their senior year of high school. Students must submit an application for admission by the published application deadline date. In addition the following information is required:
   - official copy of high school transcript(s);
   - official copy of Scholastic Aptitude Test (SAT I) or American College Test (ACT);
   - written letter of recommendation from high school counselor;
   - written permission from parents or legal guardian.

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

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

Transfer Applicants
UCF welcomes transfer applications to the University. Students should submit either the University of Central Florida Undergraduate Admissions Application or apply online at http://pegasus.cc.ucf.edu/admission/ and arrange to have official transcripts sent from all colleges attended. The Undergraduate Admissions Office computes a grade point average (GPA) for each institution attended, as well as a cumulative GPA on all college courses attempted. This computation does recognize plus or minus grades effective Fall 2001, but only recognizes grade forgiveness when it is used as part of an awarded State articulated Associate in Science degree or an Associate in Arts degree from a Florida public community college or Florida public university. Applicants must have a current minimum cumulative GPA of 2.5, and must have a minimum GPA of 2.0 and be eligible to return as a degree-seeking student to the last institution attended to be considered for admission to UCF. Meeting these minimum requirements does not guarantee admission.

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

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

Transfer Applicants With Fewer Than 60 Credit Hours
All college transfer applicants with fewer than 60 semester hours of acceptable credit must minimally meet freshman high school unit entrance requirements, the high school academic GPA, and minimum SAT or ACT scores (as listed on previous pages); 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 acceler-
Undergraduate Admissions

- CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate;
- No additional General Education Core requirements;
- Advanced knowledge of selection criteria for limited access programs;
- 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.

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

International Applicants
The University of Central Florida is authorized under federal law to enroll students on non-immigrant visas. All international candidates applying for admission to UCF must submit a "State University System Application," a University of Central Florida "Undergraduate Admissions Application," or apply online at http://www.ucf.edu. Because of additional processing time needed for 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 on-line application is available on our web site at http://pegasus.cc.ucf.edu/admissions/application.
- Students who attended an international secondary school that uses a grading and evaluation system different from the U.S. system will need a document-by-document evaluation of the secondary school record in English. This record, which should include performance evaluations, grades for work completed over a period of at least three years, as well as any certificates earned, should be sent to one of the agencies listed below. They will translate it if necessary, evaluate it, and then send their evaluation directly to UCF. A grade point average should be calculated and 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
  - (305) 273-1616
- P.O. Box 745
- Coral Gables, FL 33124
- Old Chelsea Station, New York, NY 10113-0745
- (212) 966-6311

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

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

**Non-Academic Admission Clearances**

Florida Department of Education Rule 6C-6.001(2) authorizes universities to refuse admission to applicants due to past misconduct. The University further requires the Vice President of Student Development and Enrollment Services or his/her designee to review all applications disclosing information regarding any prior criminal conviction or conduct problem at another institution and to make a decision as to whether the admission of this applicant will be in the best interest of the University. This statement describes the procedure and assigns responsibility for the review of these applications for admission. Applicants who fail to disclose any prior criminal conviction or conduct problem at another institution and such fact is subsequently discovered by the University, shall be denied admission or readmission, or may receive any other academic and/or disciplinary action up to and including expulsion.

**Transfer Credit: All Applicants**

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

**Accredited Institutions**

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

- New England Association of Schools and Colleges;
- Middle States Association of Colleges and Secondary School, Commission on Institutions of Higher Education;
- North Central Association of Colleges and Schools, Commission on Colleges and Universities;
- Northwest Association of Schools and Colleges Accrediting Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges;
- Southern Association of Colleges and Schools; and
- Western Association of Schools and Colleges Accrediting Commission for Secondary Schools 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 determining a “SASS Degree Audit,” which applies earned credits to the intended degree program. The “SASS Degree Audit” provides the student with an assessment of which degree requirements have been met and what remains to be satisfied. Although all college-level course work transferred from a 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.
Student Financial Assistance
Executive Director  Mary H. McKinney
Millican Hall, Room 120
Switchboard:  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .407-823-2827
Appointment:  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .407-823-5285
Fax:  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .407-823-5241
Email:  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . finaid@mail.ucf.edu
Website:  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . http://finaid.ucf.edu
Office Hours:
Monday:  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .9:00am - 7:00pm
Tuesday, Wednesday, Friday:  . . . . . . . . . . . . . . . .9:00am - 5:00pm
Thursday:  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .1:00pm - 7:00pm

The Office of Student Financial Assistance manages 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 email 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 and early in the year, to determine eligibility for many types of aid. 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.

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 priority deadline date.

If the priority date is missed, students should apply as soon as possible to be considered for 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 Federal Stafford Loans are available on a year-round basis. Students may apply for financial aid in advance of any term and receive aid from these programs, if eligible;

Students who 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 are available with each scholarship having a different criteria. Please review our scholarship information on the website for specific deadline dates for individual scholarships.

Please review our scholarship information page for specific deadline dates for individual scholarships.

Application Procedures
The FAFSA can be filed electronically at www.fafsa.ed.gov
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;

To ensure enrollment in sufficient hours for the various financial aid programs, please refer to the Program Eligibility Charts on the website;

Students must maintain UCF's Standards for Satisfactory Academic Progress;

Students are required to inform financial aid of any additional forms of aid they expect to receive beyond those listed on the
Estimated student budgets have been developed as a guide to help students anticipate their costs at UCF. Estimated Cost of Attendance for 2004-2005 students anticipate their costs at UCF. Estimated student budgets have been developed as a guide to help students anticipate their costs at UCF.

**Helpful Hints**

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

**School Costs**

Estimated student budgets have been developed as a guide to help students anticipate their costs at UCF. Estimated Cost of Attendance for 2004-2005

**Financial Information**

**Award Notice**

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

Student awards will be based upon the student’s financial need, the amount of available funds, the number of UCF students who qualify for aid, and the date the student completes the application process. The amounts listed on the award notifications are estimates based on full-time enrollment.

Admission to UCF must be finalized with no contingencies. Students must be classified as Degree-Seeking.

Verification must be completed. Students must meet the Standards for Satisfactory Academic Progress. If all eligibility is met, financial aid funds may be disbursed.

It is the student’s responsibility to be aware of minimal hourly requirements for each program, which can be found on the Program Eligibility Charts on the website. 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 deferment of tuition and fee payments. Deferments allow for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid 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/or other resources by the payment deadline. The deferment process occurs automatically if the student is meeting all general eligibility requirements and has enrolled for sufficient hours for the financial aid program/s. Please refer to the Program Eligibility Charts on the website for more information. Students should use POLARIS to obtain up-to-date information. Since awards are subject to change, deferments are also subject to change. Deferments 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 never attended them.

**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 also
Financial Information

<table>
<thead>
<tr>
<th>Financial Information</th>
<th>Deadline</th>
<th>Minimum Credit Hrs. Required</th>
<th>Available to Graduate Students</th>
<th>Second Undergraduate Degree Seeking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Federal Pell Grant</strong></td>
<td>Before June 30</td>
<td>Prorated based on hours</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>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.</td>
<td>2005</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Federal SEOG (Supplemental Educational Opportunity Grant)</strong></td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>UCF Grant</strong></td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>FSAG (Florida Student Assistance Grants)</strong></td>
<td>March 1</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Federal College Work Study</strong></td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>On-campus jobs; award earned as hourly wage. Not available to post-baccalaureate students.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FWEP (Florida Work Experience Program)</strong></td>
<td>Varies</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Federal Stafford Loan Program</strong></td>
<td>Posted each term</td>
<td>6 at UCF in UCF classes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Repayment may be deferred. Loan amounts vary as well as interest rates and repayments options.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Federal Perkins Loans</strong></td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Scholarships</strong></td>
<td>Varies year round</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>A broad range of scholarships are available through federal, state, institutional, and private sources. Each has different eligibility criteria. Consult the &quot;Scholarship&quot; online listing for more information. Inquire about ROTC scholarships at the ROTC office.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Federal Unsubsidized Stafford Loans</strong></td>
<td>Posted each term</td>
<td>6 at UCF in UCF classes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>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).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Federal Parent Loans for Undergraduate Students (PLUS)</strong></td>
<td>Varies</td>
<td>6 at UCF</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>These are loans that parents take out on behalf of their children (student must be dependent for financial aid purposes).</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

available for students to help with these expenses. The application is available for download prior to each term, so that funds may be available as early as the first day of classes. Students who apply late for financial aid should be prepared to cover their own living expenses, out-of-pocket, well into the semester. When financial aid disburses, the funds first apply towards University debts. The remaining balance is refunded to the student one of two ways. If a student has visited the SunTrust Bank on campus and has linked the account to the UCF Card, then the refund is deposited into the student's account. Otherwise, a check is mailed to the student's current mailing address on POLARIS.

**Satisfactory Academic Progress**

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:

- Maintain a minimum overall GPA of 2.0;
- Complete a minimum of 75% of the attempted hours taken during the course of the year. We will check for compliance of this requirement at the end of the summer term of each academic year. (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.

**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.

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 POLARIS, under 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 Financial Aid To Do List on POLARIS will indicate any required forms. Students transferring to UCF with excessive hours (120 or more attempted hours) must be sure to read the policies regarding Satisfactory Academic Progress found on the website. It is important that each class taken is a part of the required curriculum towards graduation.
Independent Students
Students are classified as dependent or independent because federal student aid programs are based on the principle that students (and their parents or spouse, if applicable) are considered the primary source of support for postsecondary education. For the academic year, you are an independent student if at least one of the following applies to you:
- 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 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 the class(s) and hours enrolled match the Transitional 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 these 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 POLARIS. 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 may have to repay a portion of that assistance. Students who received Federal Stafford Loans should also know that the Office of Student Financial Assistance is required to notify lenders of student withdrawals.

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

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

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

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

Students are encouraged to obtain a “Fee Invoice” to confirm fees and course registration. Fee Invoices are not mailed. Fee Invoices are available on the POLARIS web system and kiosks, 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 placed 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.finacct.ucf.edu/Student Accounts forms or from the Student Accounts Section of Finance and Accounting. Students must submit their petitions to Student Accounts (MH 107) and may appear
2003-2004 Fee Schedule*

<table>
<thead>
<tr>
<th>Fees Per Credit Hour</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Fee</td>
<td>$63.41</td>
<td>$63.41</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
<td>$0</td>
<td>$550.10</td>
</tr>
<tr>
<td>Building Fee</td>
<td>$2.32</td>
<td>$2.32</td>
</tr>
<tr>
<td>Capital Improvement Fee</td>
<td>$2.44</td>
<td>$2.44</td>
</tr>
<tr>
<td>Financial Aid Fee</td>
<td>$3.17</td>
<td>$3.17</td>
</tr>
<tr>
<td>UCF Activity and Svc Fee</td>
<td>$8.09</td>
<td>$8.09</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
<td>$11.09</td>
<td>$11.09</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$3.90</td>
<td>$3.90</td>
</tr>
<tr>
<td>Repeat Course Fee</td>
<td>$164.54</td>
<td>$164.54</td>
</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$94.42</td>
<td>$207.00</td>
</tr>
</tbody>
</table>

2003-2004 Repeat Course Schedule*

<table>
<thead>
<tr>
<th>Fees Per Credit Hour</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Fee</td>
<td>$63.41</td>
<td>$63.41</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
<td>$0</td>
<td>$550.10</td>
</tr>
<tr>
<td>Building Fee</td>
<td>$2.32</td>
<td>$2.32</td>
</tr>
<tr>
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<td>$11.09</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$3.90</td>
<td>$3.90</td>
</tr>
<tr>
<td>Repeat Course Fee</td>
<td>$164.54</td>
<td>$164.54</td>
</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$58.96</td>
<td>$262.56</td>
</tr>
</tbody>
</table>

Other Fees: Resident and Non-resident *

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCF Campus Card Fee (per academic year)</td>
<td>$10.00</td>
<td>$10.00</td>
</tr>
<tr>
<td>Campus (ID) Card Replacement Fee</td>
<td>$15.00</td>
<td>$15.00</td>
</tr>
<tr>
<td>Health Fee</td>
<td>$6.00 per credit hour</td>
<td></td>
</tr>
<tr>
<td>Minimum charge: $36.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum charge: $90.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material and Supply Fee (approved courses only – varies per course)</td>
<td>$5.00-$45.00</td>
<td></td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>$100.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>$100.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>Returned Check Fees (checks returned for any reason):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check amounts up to $50.00</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Check amounts over $50.00 and less than $300.00</td>
<td>$30.00</td>
<td></td>
</tr>
<tr>
<td>Check amounts over $300.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zero Hour Registration</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: 2004-2005 tuition and fees were not available at the time of this publication. Rates for the 2004-2005 academic year will be available in early July 2004. Fees are subject to change without notice.

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 Federal 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 registra-
tion 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 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 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 a position on the date fees are due and who meet academic requirements, including those employees on sabbatical, professional development, grants-in-aid, and educational leave, may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of the registration fee. UCF Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the UCF Employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF Employee will be liable for all applicable fees. Any UCF Employee who uses an Employee Tuition Waiver Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term's Fee Payment Deadline. See the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. Prior to enrolling into courses each term, enter the Human Resources web site at http://www.hr.ucf.edu for eligibility requirements, course restrictions and for the waiver application form.

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

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.

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

To qualify as a Florida resident for tuition purposes in accordance with State regulations, the student must be a United States citizen, resident alien, paralee, Cuban national, Vietnamese refugee, or other refugee or asylee so designated by the United States 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 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 student 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 them.)
   b. Proof of purchase of a home in Florida in which the student resides;
   c. Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment records).

2. Documentation establishing bona fide domicile in Florida which is not temporary or merely incidental to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile:
   a. Declaration of Domicile;
   b. Florida voter registration;
   c. Florida vehicle registration;
   d. Florida driver license;
   e. Proof of real property ownership in Florida (e.g., deed, tax receipts);
   f. Verification of permanent employment in Florida by the employer, employment records, or other employment-related documentation (e.g., W-2 paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment. The document must show 12 consecutive months of Florida employment prior to the first day of classes of the term for which the student requests Florida residency;
   g. Proof of membership in or affiliation with community or state organizations or significant connections to the State;
   h. Proof of continuous presence in Florida during periods when not enrolled as a student;
   i. Proof of former domicile in Florida and maintenance of significant connections while absent;
Financial Information

j. Proof of reliance upon Florida sources of support;

k. Proof of domicile in Florida of family;

l. Proof of admission to a licensed practicing profession in Florida;

m. Any other factors peculiar to the individual that tend to establish the necessary intent to make Florida a permanent home and that the individual is a bonafide Florida resident, including the age and general circumstances of the individual;

n. Proof of graduation from a high school located in Florida.

3. No contrary evidence establishing residence elsewhere;

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

Or

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

Or

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

Or

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

Or

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

Or

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

Or

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

Or

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

Or

Be a graduate student of the Southern Regional Education Board’s Academic Common Market attending Florida’s state universities,

Or

Be a full-time employee of a state agency or political subdivision of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training,

Or

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

Or

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

Or

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

And

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

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

To request a residency review, the student must submit a completed “Residency Reclassification 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 bonafide 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 on-going information about University policies and procedures throughout the first year experience. For more information about the first year advising offices and their services, please see the “Student Development and Enrollment Services” chapter of this Undergraduate Catalog.

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

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

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

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

College of Business Administration

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

New students will:
1. Meet college advising representatives in a group setting during Orientation to discuss college policy, procedures, and degree programs;
2. Review degree requirements at Orientation using SASS Degree Audit and catalog to better understand degree requirements and learn how to read a SASS Degree Audit;
3. Meet with the transfer advisor in the Office of Student Support (OSS; 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 OSS if your major is Business Pending.

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

College of Education

New students will:
1. Meet college advising representatives in a group setting during Orientation to:
   a. Discuss College of Education admission requirements needed for enrollment in 3000/4000 level classes
   b. Review degree program requirements
   c. Understand expectations and responsibilities associated with a career in education;
2. Be advised by the College of Education Office of Student Services (ED 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

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 210C;
2. Set up an appointment with the faculty advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through POLARIS at https://connect.ucf.edu;
5. Register at the scheduled appointment time in POLARIS, or in person in the Engineering and Computer Science Academic Affairs Office. Complete all schedule changes by the end of the published Add/Drop period;
6. Submit a written schedule plan signed by their faculty advisor each term if you have been placed on an engineering advisement hold. This plan must be submitted in person to the Engineering and Computer Science Academic Affairs Office each time a student uses the registration process. (Mechanical and Aerospace will submit their plan to the MMAE Office ENGR 307); and,
7. File an "Intent to Graduate Form" in the Engineering and Computer Science Academic Affairs Office by the withdrawal deadline of the term prior to the term in which the student intends to graduate.

College of Health and Public Affairs

New students will:
Meet college advising representatives in group settings during Orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.

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

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

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

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

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

Additionally, prudent use of elective hours in the curriculum 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 2010C, 2011C
- Genetics: PCB 3063
- General Chemistry: CHM 2045C, 2046, 2046L
- Organic Chemistry: CHM 2210, 2211, 2211L
- Microbiology: MCB 3203
- Calculus: MAC 2233 (prefer MAC 2311, 2312)
- Physics: PHY 2053C, 2054C (prefer PHY 2048, 2048L, 2049, 2049L)
- Statistics: STA 2023

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

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

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

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

Continuing students should:
1. See their faculty advisor during the first few weeks of each semester to check progress and to select a program of study;
2. See a program advisor prior to registration to select courses;
3. View a SASS Degree Audit through POLARIS and contact the Office of Academic Services regarding questions or concerns; and,
4. File an Intent to Graduate Form in the School's Office of Academic Services (CL1 302) during registration for the graduating term.

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

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

Regional Campus System
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 major program of study; and
3. Plan an appropriate first semester class schedule.

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

For a list of the academic programs available through the Regional Campus System, see 'UCF Regional Campuses' within the "University of Central Florida" chapter of this Undergraduate Catalog.
Transfer Services

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

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

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

Where Can I Go For Help?

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

- Common program and course prerequisites;
- Critical academic and transfer policies;
- Foreign language requirements;
- UCF critical dates and deadlines;
- General advising and referral for transfer students before and after they enroll at UCF;
- Individual appointments to discuss transfer issues;
- Written articulation agreements between the university and community colleges;
- Advising for transfer students who are undeclared majors, undecided, or changing majors.

How Can a Community College Counselor or Advisor Help Me?

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

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

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

- Priority in admission to state universities;
- Acceptance of at least 60 credit hours toward the baccalaureate degree; no additional general education core requirements;
- Acceptance of all courses taken at your institution, if the same course with the same course number is offered at UCF;
Transfer of all accelerated programs (CLEP, AP, IB, early admission, and dual enrollment courses) within the A.A; official test scores must be sent to receive UCF course credit;

- Advance knowledge of selection criteria for limited access programs; equal opportunity with UCF native students to enter limited access programs; and
- All grade forgiveness awarded under the A.A. will be honored.

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

What If I Have Not Taken the CLAST?
Students may be admitted without completing the CLAST. However, without the CLAST completed, you are not awarded the A.A.; privileges provided by the A.A. are not granted, (e.g., grade forgiveness, Gordon Rule, and the completion of general education requirements). If you have not met the CLAST requirement, you must take the exam in your first term of enrollment; you must satisfy all four parts of the CLAST by the time you have completed 36 hours of upper-division course work. UCF accepts the CLAST alternatives and waivers awarded by Florida public community colleges and universities.

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

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

What Are the Foreign Language Requirements?

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

Some baccalaureate degrees require students to demonstrate foreign language proficiency as a graduation requirement; this requirement may be satisfied by college-level course work or testing equivalent to two semesters of college instruction. Some majors require additional proficiency. Consult the UCF Undergraduate Catalog for graduation requirements for specific majors. Neither high school courses nor American Sign Language proficiency will satisfy graduation foreign language requirements. International students required to provide TOEFL scores for admission are considered to have satisfied the graduation requirement.

How Will My Credits Transfer?

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

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

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

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://connect.ucf.edu). A late payment fee of $100 will be assessed on all accounts not paid or deferred by each term’s payment deadline. Please note that you will not be sent a bill. It is up to you to review your invoice through POLARIS. Payments may be made at the Cashier’s Office, Millican Hall, room 110, or mailed to:
University of Central Florida
Cashier’s Office
PO Box 918449
Orlando, FL 32891-8449

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

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

Can Transfer Students Participate in The Burnett Honors College?

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

Transfer Tips: Office Visits for Transfer Advising

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

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

Students should:

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

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

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

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

- Complete the "Student Health Form." Registration will not be allowed without the completion and approval of this form.
- Complete CLAST if possible; however, you can be admitted 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://connect.ucf.edu  
___/___/___ date of acceptance

**Transcripts (original transcript from all institutions attended)**

___/___/___ date transcripts sent from all current and prior institutions  
___/___/___ date final transcript sent after term completed

**Financial Aid/Scholarship**

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

**Housing**

___/___/___ 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 cannot be used to satisfy graduation requirements that may be required by the specific major.

**Program (Major) Requirements**

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

**Orientation:**

___/___/___ orientation date at UCF
Requirements for Graduation

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

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

Degrees Awarded Posthumously

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

Choice of Catalog (Catalog Year) and Continuous Enrollment

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

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

General Education Program (GEP)

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

Courses that fulfill the General Education Program requirements are specified, but in some cases an advanced course in the same discipline may be substituted for GEP requirements with the approval of Enrollment and Academic Services. Students should consult both with an advisor and with Enrollment and Academic Services before submitting any course.

Undergraduate students who have not completed requirements for the Associate of Arts degree and who desire to transfer to another Florida public university can have their transcripts indicate “General Education Requirements Met” upon written request, if they have completed UCF’s GEP requirements with a GPA of 2.0 or better. UCF will accept a similar statement on transcripts received from Florida public community colleges and universities in lieu of completion of the University’s General Education Program. Students enrolled in courses that use the “NC” grade must earn a grade of “C-” (1.75) or better.

General Education Program Learning Objectives

Communication Foundations

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

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

Cultural and Historical Foundations

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

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

Mathematical Foundations

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

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

Social Foundations

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

- understand the working of governmental structures;
- understand the process by which individuals and groups allocate resources;
- analyze the structure of current or past societies, cultures, and institutions;
- understand human behavior and describe the development of sensory processes, motivation, emotion, learning, cognition, intelli-
Undergraduate Degree Requirements

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

Communication Foundations

1. ENC 1101 English Composition I 1, 2 3(3,0)
2. ENC 1102 English Composition II PR: ENC 1101 1, 2 3(3,0)
3. SPC 1600C Fundamentals of Oral Communication or 3(3,0)
4. SPC 1016 Fundamentals of Technical Presentation 3(3,0)

Cultural and Historical Foundations

1. Take one of the following two-semester sequences:* 6(3,0)
   - EUH 2000 Western Civilization I 2 and 3(3,0)
   - EUH 2001 Western Civilization II 2 or 3(3,0)
   - HUM 2211 Humanistic Tradition I 2 and 3(3,0)
   - HUM 2230 Humanistic Tradition II 2 or 3(3,0)
   - AMH 2010 U.S. History: 1492-1877 2 and 3(3,0)
   - AMH 2020 U.S. History: 1877-present 2 or 3(3,0)
   - WOH 2012 World Civilization I 2 and 3(3,0)
   - WOH 2022 World Civilization II 2 or 3(3,0)

2. Take one course from the following: (3 hours)
   - ARH 2050 The History of Art I 3(3,0)
   - ARH 2051 The History of Art II 3(3,0)
   - MUL 2010 Enjoyment of Music 3(3,0)
   - THE 2000 Theatre Survey 3(3,0)
   - FIL 1001 Cinema Survey 3(3,0)
   - REL 2300 World Religions 3(3,0)
   - PHI 2010 Introduction to Philosophy 3(3,0)
   - LIT 2110 World Literature I PR: ENC 1102 3(3,0)
   - LIT 2120 World Literature II PR: ENC 1102 3(3,0)

Mathematical Foundations

1. Take one course from each group. 6(3,0)
   - MAC 1105 College Algebra 2 3(3,0)
   - MGF 1106 Finite Mathematics 2 3(3,0)
   - CGS 1060C Introduction to Computer Science 2 3(3,0)
   - STA 1060C Basic Statistics using Microsoft Excel 2 3(3,0)
   - STA 2014C Principles of Statistics 2 3(3,0)

Social Foundations

1. Take one course from each group. 6(3,0)
   - ECO 2013 Principles of Macroeconomics 3(3,0)
   - ECO 2023 Principles of Economics II 3(3,0)
   - POS 2041 American National Government 3(3,0)
   - PSY 2012 General Psychology 3(3,0)
   - SYG 2000 General Sociology 3(3,0)
   - ANT 2000 General Anthropology 3(3,0)

Science Foundations

1. Take one course from each group. 6(3,0)
   - AST 2002 Astronomy 3(3,0)
   - PSC 1121* Physical Science PR: MAC 1105 or MGF 1106 3(3,0)
   - PHY 2053C College Physics I: MAC 1105 and MAC 1114 3(3,0)
   - CHM 1201 Concepts in Chemistry PR: High School Algebra 3(3,0)
   - BSC 1005* Biological Principles 3(3,0)
   - BSC 1050* Biology and Environment 3(3,0)
   - GLY 1030 Geology & Its Applications 3(3,0)
   - GEO 1200* Physical Geography 3(3,0)
   - ANT 2511 The Human Species 3(3,0)
   - MCB 1310 Biotechnology and Genetics 3(3,0)

* 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.

gence, and personality.

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

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

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

<table>
<thead>
<tr>
<th>GEP Requirements</th>
<th>Acceptable Substitutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 (College Algebra)</td>
<td>MAC 1114, MAC 2233, MAC 2253,</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</td>
</tr>
</tbody>
</table>
Undergraduate Degree Requirements

Diversity Requirement

The University recognizes that communities are comprised of, and enriched by, people of diverse backgrounds. The study of diversity is encouraged to promote an understanding of the needs of individuals, the University, and society. Thus, all students completing their first baccalaureate 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.

Other Courses:

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 registration in any college. Students seeking a second baccalaureate degree or transferred students will be allowed to take the examination (SRC 203) for the Foreign Language Proficiency Examination periodically each semester. Students must register in advance with that office to take the examination.

Exit Exams

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

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 instruction. This requirement may be met either by successful completion of the appropriate college-level course or by examination. Languages that may be used include those taught at UCF and any others for which the University can obtain standardized proficiency tests. Students who have previously received a baccalaureate degree are exempt from this requirement.

Departmental Requirements

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.
Undertake Degree Requirements

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: **GEP Courses Which Satisfy:**

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

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

2. 12 hours of course work in which the student must complete 24,000 words of composition
   - (1) Six hours of English
   - (2) Six-hour sequence of Western Humanities, World History, U.S. History, or Western Civilization

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADV 4101</td>
<td>Adv Copy and Campaigns</td>
</tr>
<tr>
<td>CRW 3013</td>
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<td>THE 4072</td>
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Each of the courses listed below fulfill 3,000 words of the composition portion of the “Gordon Rule” Requirement.

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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tr>
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<td>SYP 3400</td>
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</table>

College Level Academic Skills Test (CLAST)

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

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

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

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

**CLAST Waiver Petitions for Students with Disabilities**

Students with disabilities may request reasonable accommodations while taking the CLAST. Those who are unable to pass a sub-test of the CLAST due to a disability may request that a sub-test of the CLAST be waived. The student must be registered with the Student Disability Services Office (SRC 132) and have on file documentation of his or her disability. Contact Academic Support and Advising Programs (PH 107) to complete a petition to waive a CLAST subtest. The CLAST Waiver Committee reviews all requests for waivers on a case by case basis. For disability registration information, contact Student Disability Services at 407-823-2371. For CLAST waiver petition information, call Academic Support and Advising Programs at 407-823-8630.

**Summer Attendance Requirement**

A student entering the State University System with fewer than 60 semester hours of credit is required to enroll in a minimum of nine hours of credit in the summer at a State of Florida university. Courses taken at the University during the summer for which the student receives a “W” or “F” may be counted toward this requirement. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. Petition forms for exemption are available from Academic Services (MH 210).

**Admission to the Upper Division**

To be classified as an upper division student at the University of Central Florida, a student must complete the following:

1. A minimum of 60 semester hours of academic work;
2. The English and mathematics requirements of the Gordon Rule;
3. Passing scores on three of the four parts of the CLAST; and,
4. One year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

**Graduation Application Deadline**

Students planning to graduate in the next term must complete the “Intent to Graduate Form” in their college during Registration for their last term (see the “Academic Calendar” for specific dates). Students who have not applied for graduation by the last day of classes in the term preceding the graduation semester may not be listed in the Commencement Program. Graduating students must be enrolled at UCF during the term of graduation. Graduates may contact the Registrar’s Office for Commencement ceremony and guest ticket information or refer to http://graduation.ucf.edu.

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

**Correspondence Courses**

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

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

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

**Double Majors**

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

**Double Degrees/Second Baccalaureate Degree**

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

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

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

**Catalog Year Requirements for Double Degrees and Double Majors**

Students earning two degrees may use different catalog years for each degree. Students earning a double major must use the same catalog year for both majors.

**Dual Usage of Credit Hours**

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

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

Registration is available over the web using the POLARIS system at [https://connect.ucf.edu] and in the college advising offices. The dates and times for each registration period are included in the "Academic Calendar" online at [http://www.ucf.edu/toplinks/academic_calendar.html].

Schedule Web Guide
The Schedule Web Guide is published online twice each year: the Summer/Fall edition and the Spring edition. The Schedule Web Guide provides the official "Academic Calendar" and describes the policies and procedures governing registration each term. The Schedule Web Guide is available on the Registrar's Office web page at [http://registrar.ucf.edu].

Terms and Credit Hours
The University of Central Florida academic schedule consists of two semesters (Fall and Spring), and the Summer term. The graduation credit value of each course of instruction is stated in terms of 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.

Holds
A hold (negative service indicator) may be placed on a student's records, transcripts, grades, diplomas or registration due to financial or other obligations to the University. Satisfaction and clearance of the hold is required before a release can be given. Students may check for holds on the POLARIS system at [https://connect.ucf.edu]. To obtain an immediate release for financial holds, payment to the Cashier's Office must be made either in cash, credit card, cashier's check, or money order.

Add/Drop Policy
Add/Drop is the period following their initial registration when students may make class schedule adjustments (as listed in the "Academic Calendar"). Add/Drop may be done using the POLARIS system (https://connect.ucf.edu) and in the college advising offices. After the Add/Drop period, no courses 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 181. 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 website: [http://registrar.ucf.edu]. It is necessary to complete the required forms during the last hours of registration as noted in the "Academic Calendar" online at [http://www.ucf.edu/toplinks/academic_calendar.html]. Direct student expenses after the completion of registration include the campus ID card, vehicle registration and textbooks.

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

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/toplinks/academic_calendar.html]. For waiver eligibility and application information, see "Tuition Waivers" within the "Financial Information" chapter of this Undergraduate catalog.

State Tuition Exemption Program (STEP) (National Guard) Registration
State 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/toplinks/academic_calendar.html]. 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/toplinks/academic_calendar.html] will result in the student being assessed regular fees. The tuition fee waiver cannot be used for courses that require increased costs, including, but not limited to courses offered through the Center for Continuing Education, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, co-ops, practicums, or applied, individualized instruction in music, art, or dance. Eligible members of the active Florida National Guard may receive a waiver of 50% of tuition and material and supply fees.

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

UCF Students Attending Another State University System of Florida Institutions
UCF students who desire to attend another SUS institution as a Transient Student may secure the "SUS Transient Application Form" from their college advising office, from the Registrar’s Office or online at [http://www.facts.org]. The priority permission of the department, school, and college advising office is required to ensure that
the courses attempted at another institution will meet the UCF Degree/General Education Program requirements.

UCF Students Attending a Non-SUS Institution
A UCF degree-seeking student desiring to earn credit at another college or university for transfer back into a UCF degree program must obtain prior transient approval for specific courses from the Dean or Department Chair of his/her respective college or school. Transient approval of courses to be applied to the UCF General Education Program must be obtained in advance from Academic Services (MH 210). Credit earned without prior transient approval may not be accepted. Plus/minus grades will be transferred for course work earned Fall 2001 and after using UCF's grade point system. Because of graduation certification, students may not take courses in transient status during the term in which they expect to graduate. Student seeking transient status must complete the "Transient Approval Form," available from the college or school advising office or at http://www.facs.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 on-line through POLARIS at https://connect.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 on-line at www.degrechk.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 on-line 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 "WF" unless otherwise noted in the "Academic Calendar" online at http://www.ucf.edu/toplinks/academic_calendar.html. A student may withdraw from courses using POLARIS at https://connect.ucf.edu, or by visiting the Registrar's Office (MH 161), certain college advising offices, or a Regional Campus records office. Students may withdraw by fax at 407-823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student's identification number, the course(s) to be dropped and his or her signature. Students 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 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. Withdrawing from classes may have financial aid, NCAA eligibility or international Visa consequences. Students should seek appropriate advisement 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 consult Academic Services (MH 210). At the time of the request, Academic Services will ascertain from the instructor whether the student was passing or failing the course. If the student was passing, a "WF" will be recorded on the student's permanent record; if failing, a "WF" will be entered. Medical and late withdrawals normally are for all courses taken in the semester.

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

If a medical withdrawal is approved, a "WM" will be recorded for each course. Students who receive a medical withdrawal may be placed on hold until the University can determine that the student is ready to return. If a medical withdrawal is not approved, the request may be approved as a late withdrawal and grades of "WF" 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>Grade Points Per</th>
<th>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, MAG 1114, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311H, MAG 2311H, and STA 2014.

Other Actions | Grade Points
--- | ---
I | Incomplete -
N | No grade reported by instructor -
R | Repeated course (Grade Forgiveness) -
S | Satisfactory (w/credit)/Satisfactory Progress (Research, Thesis, or Dissertation) -
T | (followed by grade) Subsequently repeated (no credit) -
U | Unsatisfactory (no credit) -
Course #3 A 4 semester hours X 4.00 grade points = 16
Course #2 A- 3 semester hours X 3.75 grade points = 11.25

Total number of grade points earned for that 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 |

Total grade points = 13 semester hours X 46

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. The "N" designator may not be assigned by the instructor.

Incomplete Grade

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

Grade Change

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

Grade Reports

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

Attendance, Absences, or Unsatisfactory Work

Under University policy, students are not authorized to attend class unless they are on the class roll, or have been approved to audit and have paid audit fees. Students are responsible for satisfying the entire range of academic objectives as defined by the course instructor and ensuring that their class work and attendance are satisfactory. Students should understand that attendance policies and procedures vary among instructors and academic units, and that 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, Athletics Services for Student-Athletes, Saber Center 123B; 407-823-3761.

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

Classroom Responsibility

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

Student Conduct

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

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

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

**Academic Honors**

**President's Honor Roll Certificate (Full-Time Award)**

The President’s Honor Roll Certificate (Full-Time Award) is awarded in recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA in a consecutive academic year. The certificate must be completed 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 10 percent, but not in the upper five percent.

**Grade Forgiveness**

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

1. Grade Forgiveness is limited to two courses;
2. Grade Forgiveness may not be used twice for the same course;
3. Grade Forgiveness will only be awarded if the original and repeated courses both are taken at UCF;
4. All courses will remain on the student’s official transcript. The original course grade will be marked with a “T” to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an “R.” The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;
5. If it is determined that the student is ineligible for the Grade Forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made;
6. If a student applies for Grade Forgiveness and later withdraws, or receives an “I” grade or “NC” grade in the course, the attempt will count as one of the allotted Grade Forgiveness attempts, and the GPA will calculate both grades.
7. UCF does not honor Grade Forgiveness granted at other institutions unless it is part of an Associate in Arts or a specific statewide articulated Associate in Science degree transferred from a Florida Public Community College or State University. UCF’s Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations;
8. Due to the two-course limit, a student who has repeated two or more courses at a Florida Public Community College or State University and included those courses in the transfer of an AA or a specific statewide articulated AS degree will not be granted any Grade Forgiveness at UCF;
9. Grade Forgiveness awarded for repeated courses will not retroactively alter any previous grade or academic action (i.e. academic probation or disqualification). In addition, no academic records can be altered after a student graduates;
10. Grade Forgiveness is not retroactive and, therefore, may not be used for a course repeated before Fall 1981. If a student who repeated a course at UCF before 1981 and did not use the previous forgiveness policy may repeat the course again. In this case, the lower of the previous two grades will be forgiven. This special circumstance is the only one in which a student will be allowed to repeat a course more than once; and

11. With prior approval from the Dean's office in which the course is offered, a student may substitute a course different from the original one if: 1) the substitute course reflects a change in prefix, number, hours, or title but not in subject; or 2) the substitute course replaces a course no longer offered by UCF.

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

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

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

First-time-in-college students may be admitted on Academic Probation at the discretion of the Undergraduate Admissions Office or the Admissions and Standards Committee. Transfer students may be admitted on Academic Probation at the discretion of the Undergraduate Admissions Office or the Admissions and Standards Committee. Academic Probation is intended to inform students making unsatisfactory progress of their need to alter study habits and seek additional counseling. Early recognition will indicate to the student the 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 A.D. 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 application 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 state-wide 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 admission to the program. Plus or minus grades will transfer for course work earned Fall 2001 and after using UCF's grade point system.

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

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

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

1. Submit a written statement indicating the reason for the previous academic difficulties and a plan for ensuring success in future terms:
   a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification Number (PID).

   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. Disqualified students are limited to one readmission appeal during the disqualification period and one appeal per 12-month period following the disqualification period.

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.

Admissions and Standards Committee

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

Right of Appeal

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

1. Complete the "Application for Readmission as an Exception to University Policy Form," available at the Registrar's Office (MH 161);
2. Prepare a written statement specifying the extenuating circumstances that 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, if applicable.
   e. SASS Degree Audit (obtained from POLARIS at https://con-nect.ucf.edu).

Exempting students who have not completed the required suspension period, the appellant will be afforded the opportunity to personally appear before the Committee before it renders a decision. Upon receipt of both the appeal and all required supporting documentation, the Admissions and Standards Committee will render a decision. This decision is final.

Academic Amnesty Program

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

1) Gain the written support for the Academic Amnesty Program from the student’s college or school and present to the Admissions and Standards Committee an academic plan of action approved by the college or school. 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 or school (i.e., academic advising or mentoring, required tutoring or academic support services, etc.).
   d. Complete and submit an Academic Amnesty Agreement to the Admission and Standards Committee.

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

Note: The criteria and procedures noted above are subject to change without notice. Final eligibility criteria, application procedures, satisfactory completion requirements and ancillary policies are under development. For the most current information, contact Dr. Ron Atwell, Admissions and Standards Committee Chair at 407-823-3326 or at ratwell@mail.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 students’ responsibility to make appropriate changes to the address as they occur. Address and e-mail changes can be made on POLARIS (https://connect.ucf.edu). Address and e-mail changes also can be made by writing the Registrar’s Office, P. O. Box 160114, Orlando, FL 32816-0114 or fax to 407-648-5022. Written requests must be signed and the student identification number provided.

Transcript Requests

Requests for official transcripts are made through the Registrar’s Office (in person, by mail, or by fax). “Transcript Request Forms” are also available on the Registrar’s Office website at http://registrar.ucf.edu. A student’s academic record can be released only upon written authorization signed by the student. Telephone and e-mail requests are not accepted. Transcripts cannot be released if the student is on hold due to a financial obligation to the University. Transcript requests must include the student’s signature, full name, identification number, and the name and complete address of the person(s) or organizations to whom transcripts are to be sent. If final grades or degree statement are needed, indicate that the transcript request is to be held until all requested data are posted.

A $5 per transcript charge is assessed for each transcript request. Payment for official transcripts is required at the time of request and may be satisfied by 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://connect.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 considered.

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

Major and Minor Changes

Majors

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

Minors
A minor is a complement to a bachelor's degree program/major requiring at least 18 credit hours in a field. A student may declare a minor at any point during the first term of enrollment up to but no later than the submission of the "Intent to Graduate Form.

Students strongly are urged to declare a minor as early as possible. Minors are optional unless required by your specific major. All graduation requirements (i.e., the minor and major) must be from a single UCF catalog for which a student is eligible. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second degree is earned, certification will not be made at a later time even if additional courses have been completed. The "Undergraduate Minor Declaration/Change Form" is available at the college and school advising offices. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

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

Family Educational Rights and Privacy Act (FERPA)
The procedures for protecting the confidentiality of student records are based on state regulations and the federal Family Educational Rights and Privacy Act of 1974. FERPA affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 30 days of the day the University receives a written request for access. Students should submit to the University Registrar, dean, head of the academic department, or other appropriate official, a written request 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 or requests that the student be notified of the results of any hearing requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing;

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility; and

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

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

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

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

All other student information will be released in accordance with FERPA; in most cases this requires the student's prior written and signed consent. The University extends to students the opportunity to withhold any or all information, including "directory information." To do this, students must complete the "Directory Disclosure/Release Authorization" form available at the Registrar's Office (MH 161) or online at http://registrar.ucf.edu, requesting that this information be withheld. The Golden Rule outlines the University procedures for confidentiality. For additional information describing FERPA policy, enter the Department of Education Family Policy Compliance Office website at http://www.ed.gov/offices/OFM/fpcoc/.

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

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

Advanced Placement Program (AP) (see table on following page)
Students who have participated in the Advanced Placement Program in high school and have received a score of 3, 4, or 5 on the national examinations will receive college credit in the appropriate subject
### ADVANCED PLACEMENT EXAMS

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score of 3</th>
<th>4 (Diploma holders only)</th>
<th>Score of 4</th>
<th>5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
<th>Score of 5</th>
<th>GEP Usage</th>
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<td>ARH 2050 and 2051</td>
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<td>CUL &amp; HIS Found 2</td>
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<td>MAC 2311 and 2312</td>
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<td>MAC 2311 and 2312</td>
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<td>Chemistry</td>
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<td>CHM 2045C or CHM 2045L</td>
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<td>SCI Found 1</td>
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<td>SCI Found 2</td>
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<tr>
<td>Computer Science AB</td>
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<td>SCI Found 2</td>
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<td>Economics: Macro</td>
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<td>SOC Found 1</td>
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<td>SCI Found 1</td>
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<td>Economics: Micro</td>
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<td>SCI Found 1</td>
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<td>Government and Politics: Comparative</td>
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<td>PHY 2035C and 2045C</td>
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<td>Psychology</td>
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<td>Same as 3</td>
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<td>Studio Art: 2-D Design Portfolio</td>
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### INTERNATIONAL BACCALAUREATE

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<th>Exam</th>
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<th>5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
<th>Score of 5</th>
<th>GEP Usage</th>
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* This use for General Education applies only to I.B. credit.
areas. Students should consult their high school guidance counselor or write to the Educational Testing Service, Princeton, NJ 08540, for additional information. The table labeled “Advanced Placement Exams” provides information related to Advanced Placement examination areas and subtest areas for which credit may be awarded.

**Advanced Placement Language (all modern languages)**

A score of 3 earns a minimum of one semester (min. 3 credits) of introductory literature. A score of 3 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 (see table on previous page) for scores of four or higher in the subsidiary and higher level program areas. The table below labeled “International Baccalaureate” provides information related to the International Baccalaureate program credit.

**International Baccalaureate (all modern languages)**

International Baccalaureate offers examinations in many languages and literatures at different levels: B, A2, and A1. Most students in Florida take English as their A1 level language (literature for native 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 B (most common) or higher.

**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 below*

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

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

- Credit may be awarded in the CLEP subject examination area, provided the student: a) is not within 60 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 within 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.

### 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>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Algebra, College</td>
<td>MAC 1105</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Algebra-Trigonometry, College</td>
<td>MAC 1147</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>American Government</td>
<td>POS 2041</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>American Literature</td>
<td>AML 1000</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Biology, General</td>
<td>BSC 1005</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Business Law, Introduction to</td>
<td>BUL 1241</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Calculus with Elementary Functions</td>
<td>MAC 2233</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Chemistry, General</td>
<td>CHM 1020</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Educational Psychology, Introduction to</td>
<td>EDP 1005</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>ENC 1101</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>English Literature</td>
<td>ENL 1000</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>History of the United States I: Early Colonizations to 1877</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>History of the United States II: 1865 to Present</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Information Systems and Computer Applications</td>
<td>CGS 1077</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Macrosystems, Principles of</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Management, Principles of</td>
<td>MAN 2021</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Marketing, Principles of</td>
<td>MAR 2011</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Mathematics, College</td>
<td>MGF 1107</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Microeconomics, Principles of</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Psychology, Introductory</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>SYG 2000</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>MAC 1114</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>-</td>
<td>Same as “C”</td>
<td>MAT Found 1</td>
</tr>
</tbody>
</table>

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

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

No direct equivalent. Content of Language A1 varies widely.

Minimum 3 credits literature for 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)

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

### CLEP Language Examinations

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

### CLEP Examination Requirement for Bright Futures Scholarship Recipients

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

The acceleration mechanisms that may be used are:

1) College Level Examination Program (CLEP) attempts. The student may attempt up to five CLEP examinations before college course work. A CLEP examination may be passed or failed and still satisfy one of the five attempts required by the policy. If a CLEP examination is chosen to meet one of the five attempt requirements, the exam must be taken prior to the student's registration for college courses for which credit may be earned through CLEP examinations and no later than the student’s registration for the second semester of college. The State of Florida will pay for up to five CLEP examinations, whether or not the student passes the exam, providing each of the five attempt requirements are met.

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

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

It is important that students choose exams that are appropriate for meeting both general education and major program requirements. Bright Futures recipients should work closely with their First Year advisor in the assessment of AP, IB, and similar credit and in the selection of appropriate CLEP exams. The Bright Futures requirement does not apply to transfer students from community colleges or four-year universities.

For additional information regarding the Bright Futures requirement, visit the UCF Office of Academic Support and Advising Programs (ASAP) at PH 107, call 407-823-6630, e-mail at asap@mail.ucf.edu or enter its web site at http://pegasus.cc.ucf.edu/~asap.

### 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

### 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 105/105L</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>Biology (A-Level)</td>
<td>none</td>
<td>BSC 2010C</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>Chemistry (AS-Level)</td>
<td>none</td>
<td>CHM 1020/1020L</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Chemistry (A-Level)</td>
<td>none</td>
<td>CHM 2045C</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Computing (AS-Level)</td>
<td>CSS 1073</td>
<td>MAT Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Computing (A-Level)</td>
<td>CSS 1073 and CSS 1074</td>
<td>MAT Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Economics (AS-Level)</td>
<td>ECO 1000</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Economics (A-Level)</td>
<td>ECO 2023 and ECO 2023</td>
<td>SOC Found 1</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>English (AS-Level)</td>
<td>ENC 1101 or ENC 1102</td>
<td>COM Found 1</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>English (A-Level)</td>
<td>ENC 1101 or ENC 1102#</td>
<td>COM Found 1</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Environmental Science (AS-Level)</td>
<td>EVR 1001C</td>
<td>SCI Found 2</td>
<td>same</td>
<td></td>
</tr>
<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>same</td>
<td></td>
</tr>
<tr>
<td>History (A-Level)</td>
<td>Three credits for each successfully passed exam, subject to institutional review</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Foreign Language (AS-Level)</td>
<td>At least one semester of language credit up to elementary II level (usually 1122)</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Foreign Language (AS-Level)</td>
<td>One semester of literature</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Mathematics (AS-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>
<tr>
<td>Physics (AS-Level)</td>
<td>none</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Physics (A-Level)</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Psychology (AS-Level)</td>
<td>none</td>
<td>PHY 2053C/2054C</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Psychology (A-Level)</td>
<td>none</td>
<td>SOC Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Sociology (AS-Level)</td>
<td>none</td>
<td>SOC Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Sociology (A-Level)</td>
<td>SYG 2000</td>
<td>SOC Found 2</td>
<td>same</td>
<td></td>
</tr>
</tbody>
</table>

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

# If the student has previous credit for ENC 1101 and ENC 1102, credit will be awarded for LIT 1006.
### DANTES SUBJECT STANDARDIZED TESTS (DSST)

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

### EXCELSIOR COLLEGE EXAMINATIONS TABLE

<table>
<thead>
<tr>
<th>Exam Title</th>
<th>Course Number</th>
<th>GEP Usage</th>
<th>Passing grade for credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abnormal Psychology</td>
<td>CLP 1140</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>English Composition</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>C</td>
</tr>
<tr>
<td>Ethics: Theory and Practice</td>
<td>PHI 1630</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foundations of Gerontology</td>
<td>GEY 1000</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>Lifespan Developmental Psychology</td>
<td>DEP 2004</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Microbiology</td>
<td>MCB 1000</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

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 previous page)**
The Advanced International Certificate of Education (AICE) program is an international, advanced secondary curriculum and assessment program equivalent to the British system of "A-Levels." Information about the program, including course syllabi, can be found online at [http://www.cie.org.uk/a_and_s/gce_a/index.html](http://www.cie.org.uk/a_and_s/gce_a/index.html).

**DANTES Examination Credit (see table above)**
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](http://www.getcollegecredit.com).

**Excelsior College Examinations (see table above)**
The table labeled “Excelsior College Examinations” provides information related to the Excelsior examination areas and subtest areas for which credit is awarded. More detailed information about Excelsior College Examinations, including detailed test descriptions, can be found on-line at [http://www.excelsior.edu](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://international.ucf.edu/](http://international.ucf.edu/)

Three of the University of Central Florida's five international goals are:

1. To achieve international prominence in key prorams of graduate study and research;
2. To provide international focus to our curricula and research programs;
3. To become more inclusive and diverse.

UCF offers a variety of programs that support these goals by educating students for global citizenship 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 transnational 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 London.

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](http://www.international.ucf.edu), or contact the office at 407-882-2300.

**Center for Cooperative Education and Applied Learning**

**Director:** Dr. Sheri Dressler; PH 208; 407-823-2667

The Center for Cooperative Education and Applied Learning develops and supports experiential learning opportunities to provide real-world work experience for UCF students. This usually takes the form of Cooperative Education experiences and internships.

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

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

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

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

**Division of Continuing Education**

**Assistant Vice President/Director:** J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390, Orlando, FL 32826; 407-822-2026; Fax: 407-882-0244

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

**Center for Multilingual Multicultural Studies**

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

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

The Center for Multilingual Multicultural Studies at University of Central Florida is accredited by the Commission on English Language Program Accreditation (CEA) and agrees to uphold the CEA standards for English Language Programs. For further information about this accreditation, please contact the Commission of English Language Program Accreditation, 700 S. Washington Street, Suite 200, Alexandria, VA 22314, (703) 518-2490.

Off-Campus College Credit Programs
Director: Stephen Miller; Division of Continuing Education, Bldg #81, P.O. Box 1609950, Orlando, FL 32816-0950; 407-882-0260; Fax: 407-882-0244

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

Institutes and Centers for Research
Center for Applied Human Factors in Aviation (CAHFA)
Director and Chief Scientist: Jefferson M. Koonce; 407-823-1011; Fax: 407-823-5862

The Center for Applied Human Factors in Aviation (CAHFA) has as its mission the enhancement of safety in the nation’s airspace system through applied human factors research, systems design, and training strategies. Chartered in 1990, CAHFA is a research consortium established between UCF and Charter partner Embry-Riddle Aeronautical University, Daytona Beach, Florida. CAHFA’s professional staff maintains offices on both campuses. The complimentary strengths of the two universities are combined to create a research resource that is without peer for solving aeronautilcal 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; BAZ 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.

School of Optics: CREOL and FPCE
Director: Eric W. Van Stryland; 407-823-6800; E-mail: info@creol.ucf.edu; Website: http://www.creol.ucf.edu

The School of Optics: 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 School of Optics. The School offers Masters (MS) and Doctoral (PH.D.) Degrees in Optics. The School of Optics/CREOL has become an internationally recognized institute with 25 faculty members, 30 Ph.D. level research scientists, and 137 graduate students. The faculty are recognized as being among the best in the optics/laser/photonic 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, bio-photonics, 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 School has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of the School. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of optics and photonics.

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 increase 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. Kay L. Mittnik; 407-823-2446

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

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

The Center serves as a valuable resource in executive training and development by offering programs that address critical issues for managers and business leaders. These programs are offered in a variety of formats suitable for any individual or corporation through:
Florida Canada Linkage Institute  
Director: Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649; E-mail: foli@mail.ucf.edu  
The Florida Canada Linkage Institute was created by the Florida Legislature to assist in the development of stronger economic and social ties between Florida and Canada. Linkage is developed through promotion of expanded public/private dialogue on cooperative research and technical assistance, cultural exchange, enhancement of language training, and student/faculty exchange programs. The Institute serves the entire State University System. The Institute administers the Florida Out of State Tuition Fee Exemption Program for Canadian students to study in Florida’s universities and community colleges for the same tuition fees as Florida residents. The awards are competitive and limited to 25 FTE per year.

Florida Eastern Europe Linkage Institute  
Director: Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649; E-mail: eeli@mail.ucf.edu  
The Florida Eastern European Linkage Institute is statewide and is designed to create and foster educational, commercial, cultural and social exchanges between the countries in central and eastern Europe and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located in the College of Health and Public Affairs on the main campus, promotes the development of linkage through expanded public/private dialogue on cooperative research and technical assistance, cultural exchanges, the enhancement of language training, and student/faculty exchange programs. The institute administers the Out of State Tuition Fee Exemptions Program that is available for students from central and east European countries to study in Florida state universities and community colleges for the same tuition fees as Florida residents. The awards are limited to 25 FTE and are competitive.

The John Scott Dailey Florida Institute of Government at the University of Central Florida  
Director: Marilyn 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 governments, 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 teachers and professionals statewide, and its technical library boasts one of the nation’s most extensive holdings on solar and alternative energy. FSEC’s international Renewable Energy Training and Education Center is providing educational programs for government and industry leaders around the world.

Florida Space Institute (FSI)  
Director: Dr. Ron Phillips, Mail Stop: FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsiccas@mail.ucf.edu; website: http://fsi.ucf.edu.  
The Institute for Simulation and Training (IST) was established to conduct research and develop technology that advances the state of the art in affordable and effective simulation capabilities and training systems. Driven by a proven record of research achievement, IST has developed unique qualifications and is positioned to provide the enabling technologies and technical talent necessary for future simulation development. In April 1985 a State of Florida resolution recognized the Institute as part of the Center of Excellence for Simulation and Training.

IST is located in the Central Florida Research Park, adjacent the UCF campus. The park also is home to the Army Program Executive Office for Simulation, Training and Instrumentation (PEO STRI), Naval Air Training Systems Division (NAVAIR TSD), and Air Force Agency for Modeling and Simulation (AFAMS). The institute is one of an estimated 150 public and private entities specializing in simulation and training and located along the high tech corridor traversing the state from Tampa to Daytona Beach, the largest concentration of this expertise in the world.

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Director: Dr. Ron Phillips, Mail Stop: FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsiccas@mail.ucf.edu; website: http://fsi.ucf.edu.  
The mission of the Florida Space Institute is to support and develop Florida’s space industry through applied and basic university research and university education in space-related fields using practice-based teaching. FSI conducts research, develops and transfers technologies, and teaches courses in space-related sciences. In cooperation with the Florida Space Authority, NASA / Kennedy Space Center, the Air Force, and statewide industry infrastructure, FSI works to facilitate engineering and science interactions within the state.

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

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

Institute for Simulation and Training (IST)  
Director: Randall Shumaker; 3280 Progress Drive, Orlando, FL 32826-0544; 407-882-1300; Fax: 407-658-5059; E-mail: shumaker@ist.ucf.edu; Website: http://www.ist.ucf.edu  
The Institute for Simulation and Training (IST) was established to conduct research and develop technology that advances the state of the art in affordable and effective simulation capabilities and training systems. Driven by a proven record of research achievement, IST has developed unique qualifications and is positioned to provide the enabling technologies and technical talent necessary for future simulation development. In April 1985 a State of Florida resolution recognized the Institute as part of the Center of Excellence for Simulation and Training.

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IST’s research staff of engineers, scientists, and students conducts basic and applied research for a broad range of training devices and programs. Departments focus on applied research and technology, human systems integration, and information systems technologies. Research areas include:

- Multi-resolution simulation
- Virtual environments
- Computer generated forces
- Mathematical foundations
- Application development
- Information technology
- Human factors/Team training
- Training and education
- Media convergence
- Embedded simulation
- Parallel computing

Laboratories, work space, and administrative offices occupy nearly 38,000 square feet of floor space in IST’s research park building. Another 26,000 square feet of office and laboratory space is shared with the US Army. Simulation-based emergency management training is conducted at the institute’s training building near Orange and Seminole counties’ joint fire rescue facility on the campus’ north boundary.

IST actively assists UCF in the development of simulation-related curricula. First in the nation with a master’s degree in simulation systems, the University in collaboration with IST now offers a truly multi-
disciplinary 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 into clients’ grant proposals. The Institute also provides statistical support to various government agencies and private organizations. For a brief description of consulting activities of the Institute and research expertise of faculty members, please visit (http://www.cas.ucf.edu/statistics/consulting/institute.htm) The Institute offers one free consulting session to Ph.D. graduate students. The consulting service is available to faculty members working on funded projects for a modest fee. Professor Ibrahim A. Ahmad (iahmad@email.ucf.edu), Chairman of the Statistics Department, is the Director of the Institute. However, other faculty members from the Department of Statistics and Actuarial Science are available for assisting clients.

Institute for Technical Documentation
Director: Karla Saari Kitalong; CNH 307E; 407-823-6257.

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

Small Business Development Center (SBDC)
Director: Aloyse T. Polfer; 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
- Bookkeeping
- Business Tax
- Franchising
- Marketing
- Sources of Financing
- Product Innovation
- Business Plan Development

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

Small Business Institute
Director: Lloyd W. Femald, Jr.; 407-823-5725

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

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

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

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

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

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

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

**Majors:**

### College of Engineering and Computer Science
**Bachelor of Science**

**Majors:**

### 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, Medical Laboratory Sciences, Molecular Biology and Microbiology, Public Administration, Radiologic Sciences

### Rosen School of Hospitality Management
**Bachelor of Science (B.S.)**

**Majors:**
- Hospitality Management, Restaurant and Foodservice Management

### Academic Minors
**College Awarding Minor**

**College of Arts and Sciences**

- African American Studies, American Studies, Cognitive Sciences, Digital Media, Judaic Studies, Latin American Studies, Middle Eastern Studies, North American Indian Studies, Russian Area Studies, Social Sciences-Interdisciplinary, Women’s Studies

**College of Business Administration**

- Accounting, Business Administration (for non-Business Administration majors), Economics (for Business and non-Business majors), International Business, Management Information Systems, Marketing (for Business and non-Business majors), Real Estate

### College of Education
**Coaching, Early Childhood Education, Exceptional Education, Fitness Training, Technical Education and Industry Training**

**College of Engineering and Computer Science**
**Aerospace Studies, Military Science, Space Studies, Technology and Society**

**College of Health and Public Affairs**
**Aging Studies, American Humanities, Communicative Disorders, Criminal Justice, Emergency Management, Health Sciences, Health Services Administration, Health Information Management, Legal Studies, Molecular Biology and Microbiology, Public Administration, Urban and Regional Planning**

### School/Department Awarding Minor*

- **Name of Minor**
  - Multidisciplinary
  - Art History, P.A.V.E., Art Studio
  - Chemistry
  - Interpersonal Communication, Organizational Tel Communication, Mass Communication, Magazine Journalism
  - Department of English Technical Writing and Editing, Creative Writing, Literature, Linguistics, Writing
  - Cinema Studies
  - French, German, Italian, Russian, Spanish
  - History
  - Mathematics
  - Military Science (Army ROTC)
  - Music
  - Environmental Studies, Humanities, Philosophy, Religious Studies
  - Astronomy, Physics
  - Asian Studies, Political Science
  - Political Science/Pre-Law
  - Clinical, Human Factors, Industrial/Organizational
  - Multicultural Anthropology, Sociology, Anthropology
  - Statistics
  - Theatre

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

### Graduate Programs
See description at the beginning of each college section. For further information on a particular program or graduate fellowships, contact the departmental office in the respective college or see the Graduate Catalog.
The College of Arts and Sciences, the largest academic unit in the University, includes the following departments: Art; Biology; Chemistry; English; 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 graduation requirement, American Sign Language is not considered a foreign language and will not fulfill the requirement.

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

Preprofessional Programs

Prelaw Program

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

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

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

**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 within a major should be directed to the Department offering the degree. The student should contact the department early in his/her academic career.

**Program Planning**

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

**Area Studies Programs**

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

**Asian Studies** - Contact: Hong Zhang, CNH 531, 407-823-3184

**Judaic Studies** - Contact: Moshe Pelli; 407-823-5039

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

**Middle Eastern Studies** - Contact: Elliot Vitesse; 407-823-2745

**Russian Studies** - Contact: TBA; 407-823-2251

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

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

**Programs, Tracks, and Degrees**

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<td>American Studies</td>
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<tr>
<td>Animation</td>
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<tr>
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<td>Art</td>
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<td>Astronomy</td>
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<td>Jazz Studies</td>
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<tr>
<td>Journalism</td>
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<td>Latin-American Area Studies</td>
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<tr>
<td>Liberal Studies</td>
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<td>Magazine Journalism</td>
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<td>Mathematics</td>
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<td>Psychology</td>
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<td>Real Estate</td>
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<td>Religious Studies</td>
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<td>Russian Area Studies</td>
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<td>Social Sciences</td>
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<tr>
<td>Statistics</td>
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<tr>
<td>Theatre</td>
<td>BA, BFA, Minor</td>
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</table>
American Studies: Program

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

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

Degrees: None
Tracks: None
Minors: American Studies

Anthropology

(See Sociology and Anthropology)

Art: Department

http://reach.ucf.edu/~art
E-mail: art@ucf.edu

Chair: TBA; VAB 117; 407-823-2676
Faculty: Abbas, Abraham, Burkhart, Burrell, B. Carter, Cooper, Carter, Francis, Gaudnek, Gonzalez, Hall, Haran, Haxton, Kim, Martin, Poindexter, Reedy, Rivers, Spencer, M. Wyatt

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

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

Asian Studies: Program

Director: Hong Zhang, CNH 531, 407-823-3184

An interdisciplinary minor designed to enhance multicultural education by offering students both an overview of Asian civilization and a detailed study of its most significant features. The focus of the program is on India, China, and Japan. Course work will include upper-level classes from the curricula of participating programs (anthropology, art history, economics, foreign languages, history, humanities, philosophy, political science).

Degrees: None
Tracks: None
Minors: Asian Studies

Biology: Department

http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu
Chair: David Kuhn; BL 210; 407-823-2141
Faculty: David Kuhn; BL 210; 407-823-2141
Faculty: Celestani, Fauth, Jenkins, Kuhn, Morrison-Sheltar, Nadeau, Noss, Osborne, Parkinson, Quintana-Ascencio, Sheltar, Snelson, Soto, Stout, Sweet, Thomas, Vajravelu, von Kalm, Walters, Waterman, Weishampel, Worthy, Professors Emeritus Ellis and Koevening

The Department of Biology offers a Bachelor of Science in Biology, a minor in Biology, the Master of Science in Biology, a graduate certificate in Conservation Biology, and a cooperative Ph.D. in Biomolecular Sciences. The core curriculum provides a background in the chemical, mathematical, and physical sciences, as well as broad preparation in the biological sciences. This diverse background opens career opportunities for graduates in areas outside of their particular degree program. Graduates are well prepared to further their education in professional or graduate schools. Selection of electives, in consultation with a faculty advisor, offers students the opportunity to study and explore careers in specialized topics not taught through formal courses may be gained through independent study contracts.

Degrees: Biology (BS, MS, PhD)
Tracks: Biology Pre-professional (BS)
Minors: Biology

Chemistry: Department

http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Chair: 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, Slater, Snydman

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, Malia, Maunae-Cuadra, Meseske, Miles, Moroux, O'Hara, Pryor, Rabby, Santana, R. Smith, Stansberry, Taylor, 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 trains 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.
Minors
Tracks
lows concentration degree plans. Students, leading to graduation with honors. Program description fol-

English program provides an enriched course of study for exceptional

Degrees: Advertising/Public Relations (BA), Interpersonal Communication (BA), Journalism (BA), Organizational Communication (BA), Radio Television (BA)
Tracks: Broadcast Journalism, Broadcast Production, General Broadcasting

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

Community Arts—PAVE: Program
Director: TBA; VAB 117; 407-823-2676
A minor in Community Arts—Partners in Art in Visual Education (PAVE) is offered for the student who is majoring in Art, Music, Theatre, or English.

Degrees: None
Tracks: None
Minors: Community Arts

English: Department
http://www.english.ucf.edu
E-mail: english@ucf.edu
Interim Chair: Jose Fernandez; CNH 301; 407-823-2212

Professor Emeritus: Adicks, Omans, Schillhorst

The Department of English is responsible for the effective teaching of language and literature in English, including World Literature, and creative, expository, and technical writing. Students may concentrate in creative writing, technical writing, or literature. The Department serves the broad needs of the University with course offerings in writing and literature for students from other departments. The department has a Technical Documentation Writing Lab and also publishes The Florida Review, The Cypress Dome, and The Faulkner Journal. An Honors in English program provides an enriched course of study for exceptional students, leading to graduation with honors. Program description follows concentration degree plans.

Degrees: English (BA, MA, Ph.D)
Tracks: Literature, Creative Writing, Technical Writing
Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

School of Film and Digital Media
Director: Terry Frederick
Digital Media: Program
http://www.creat.cas.ucf.edu
E-mail: creat@cas.ucf.edu
Director: J. Michael Mosshell; VAB 205; 407-823-6100

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

Degrees: Digital Media (BA, BS)
Tracks: Graphic Design, Computer Animation, Computing for Media, Writing for Media, Digital Music, Internet and Interactive Systems

Minors: Minor, Certificate

Film: Program
http://www.film.ucf.edu
E-mail: film@ucf.edu
Division Head: Phil Peters; COM 121; 407-823-3456
Faculty: Blum, Congdon, Cook, Fluegel, Gerstein, Harpole, Harris, Ingle, Johnson, Jones, Rohdie, Sandler, Schlow, Stockl, Underberg, Yearwood

Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student’s creative voice, and stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of their work. Encouraging all aspects of filmmaking from conceptualization to distribution, the department prepares students to become effective independent filmmakers. Graduating seniors are required to complete a capstone film, script, or digital media project. Concentrations include: filmmaking, screenwriting, digital cinema, and cinema studies. Community partners include: Universal Studios Florida, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the “limited access” program by submitting an application form and creative portfolio by December 31. Complete information on faculty, curriculum, and admission requirements is available on the department website. Because this is a limited access program, students should pay close attention to the program admission requirements.

Degrees: Film (BFA) Cinema Studies (BA)
Minors: Film-Cinema Studies (BA)

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


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

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

Degrees: French (BA), Spanish (BA, MA), Foreign Language Combination (BA), ESOL (MA)
Tracks: None
Minors: French, German, Italian, Spanish

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

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

Degrees: Forensic Science (BS)
Degrees in community at large.

The program is designed to serve students pursuing careers in generating and disseminates knowledge in the civilization of the Jewish people and stimulates the historical process of modern civilization and major world religions in ancient Jewish political and economic organization. Because the roots of western culture and civilization and major world religions and 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, and in international and Middle-Eastern affairs.

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

Degrees: Liberal Studies (BA, BS, MA, MS)
Photography (A.S. to B.S.)

Tracks: Liberal Studies, Liberal Arts, Environmental Studies, Women Studies, Computer Information Technology

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, Danielsyan, Dunlop-Pyle, Dutton, Griffiths, Han, Heinzer, Higgs, Hilton, Hoffman, Jones, Kassab, Katsevich, Langfield, Li, Martin, Mikusinski, Mohapatra, Pensky, Phillips, Pyle, Rautenstrauch, Ren, Richardson, Rodriguez, Rollins, Salzmann, Schober, Shvaimoggi, 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; 407-823-2869, Fax 407-823-3378
Part-Time Faculty: Berger, Chen, Fox, Garnly, Gerher, Hawkins, Hill, Knorrer, 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
Philosophy: Department

Minors: Music

Tracks: Music Performance, Composition

Degrees: Music (BA), Music Education (BME), Music Performance (BM)

Physics: Department

Minors: Philosophy, Humanities, Religious Studies, Cognitive Sciences

Tracks: Regular and Honors

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

Political Science: Department

Minors: Political Science, Political Science/Prelaw

Tracks: American Politics, International Relations

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

Contact: TBA; 407-823-2224

Four UCF departments, Foreign Languages, History, Political Science, and Philosophy, have pooled their resources to offer a minor to students interested in a basic and well-rounded background in Russian Area Studies. The philosophy of the program is to offer

Russian Area Studies: Program

Contact: TBA; 407-823-2224

Political Science: Department

Minors: Psychology, Behavioral Forensics Certificate

Tracks: None

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

Contact: TBA; 407-823-2216


Psychology is one of the empirical sciences in the College of Arts and Sciences. The Undergraduate Program in the Department of Psychology reflects the scientific nature of the field and has two primary missions. The first is to provide students with a rigorous preparation for graduate training in psychology and related fields. The second mission is to provide all students with skills they will need to apply the basic concepts and methods of psychology in their work, their communities, and their lives. The Department of Psychology grants both BA and BS degrees. While either the BA or BS degree provides excellent preparation for graduate program studies, 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
students a multidisciplinary approach to the subject, so as to allow
them to grasp the subject in its complexity and to understand linguist-
ic, cultural, historical, political, and socio-economic interrelationships

Degrees: None

Tracks: None

Minors: Russian Area Studies

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

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

Degrees: Social Sciences (BS)

Tracks: None

Minors: Social Sciences-Interdisciplinary

Sociology and Anthropology: Department
http://www.cas.ucf.edu/soc_anthro/firstpage.html
E-mail: anthropology@ucf.edu, sociology@ucf.edu
Chair: J. Corzine; PH 403B; 407-823-2227
Associate Chair: D. Gay

Faculty: A. Chase, D. Chase, Cook, Corzine, Dees, Dietz, Dupras,
Ford, Gay, Goldstein, Howard, Huff-Corzine, D. Jones, Jasinski,
Keeton, Lieberman, Lynzwiler, Marshall, Morris, Mustaine, Sikorska-
Simmons, Stearaman, Wallace, Wright, Wright II, Zom

The Department of Sociology and Anthropology offers a Bachelor of
Arts in Sociology and in Anthropology. Students should consult with
their departmental advisor early in their academic careers to select
an area of specialization within the Department or if they plan to pursue
graduate work.

Degrees: Anthropology (BA), Sociology (BA, MA)

Tracks: Domestic Violence (MA)

Minors: Anthropology, Anthropology in Multicultural
Studies, Sociology

Statistics: Department
http://www.cas.ucf.edu/statistics
E-mail: statistics@ucf.edu
Chair: I. Ahmad; CCCI 212; 407-823-2289

Faculty: Cutchins, Gad, Guo, Hoffman, Jamshidian, Johnson,
Nickerson, Pensky, Ren, Richardson, J. Schott, S. Schott, Su,
Suchora, M. Wang, You, Zhang

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

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

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are available for qualified graduate and undergraduate students.

Degrees: Statistics (BS, MS), Actuarial Science (BS, MS)

Minors: Statistics

Theatre: Department
http://theatre.ucf.edu
E-mail: theatre@ucf.edu
Chair: TBA; UTC 111; 407-823-2862.

Faculty: Bell, Blades, Boyd, Brotherton, Brown, Chicheure, DiCroce,
Flannery, Harris, Hart, Helsinger, Huaxiang, Ingram, Larntonox,
Listengarten, Major, Maxwell, McDonald, Niess, Owens, Ruscella,
Rusnok, Scott, Seay, Shaffer, Siegfried, H. Smith (Professor Emeritus), T. Smith, Stribling, Vernon, Weaver, Woods

The Department of Theatre seeks to develop theatre artists of the highest quality by providing a select number of students with the training, education, and experiences necessary for the successful pursuit of professional careers in theatre arts. In support of this mission and the liberal arts goals of the College of Arts and Sciences, the department seeks to provide its students with the knowledge and skills necessary to live full, rewarding and productive lives. Offering both undergraduate Bachelor of Arts and the Bachelor of Fine Arts degrees, as well as graduate Masters of Arts and Master of Fine Arts degrees, the Department of Theatre undertakes to develop and graduate theatre artists who are sensitive, aware, and total human beings. Through its public performance programs, the department endeavors to serve as a cultural resource for the University, the community and the central Florida region. Striving to provide its students with a competitive edge, the department employs a faculty and staff of artists/teachers who work intensely with students in the classroom and in production. To supplement this education and training, professional guest artists are brought to the campus to work in production and in the classroom. Before graduation, BFA students are required to complete a professional theatre internship thus providing them with a unique and invaluable introduction to the real world of professional theatre. In all its endeavors, the Department of Theatre strives to create and maintain a professional environment necessary for the continued growth and development of its students, faculty, and staff.

Degrees: Theatre (BA, BFA, MA, MFA)

Tracks: Performance, Design/Tech, Stage Management, Musical Theatre

Minors: Theatre

Women's Studies: Program
http://www.cas.ucf.edu/womensstudies
E-mail: womenst@ucf.edu
Director: L. M. Logan ; CNH 201H; 407-823-6502

The Women's Studies program offers an interdisciplinary minor and a certificate in Women's Studies, in cooperation with several departments. The program examines women's situation and contributions in past and present societies, women's issues, and theories concerning women and gender.

Degrees: BA (Liberal Studies)

Tracks: Women's Studies Track in Liberal Studies

Minors: Women's Studies, Certificate
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 research university. Honors students receive an education that prepares them to enter the best graduate and professional schools as well as distinguished careers.

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

Students in TBHC are actively involved in social activities and course programming. 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 course work in Honors sections of the General Education Program1; 2) complete with a “Satisfactory” (S) grade Honors Symposium2; and 3) meet upper-division Honors course requirements determined by college or major3.

Qualified students who transfer to UCF with an AA Degree with Honors from a Florida community college that has signed an Honors Articulation Agreement with TBHC will be admitted into University Honors with junior standing. Further information is available from the Honors Office of Student Services.

Students may receive credit for one upper-division Honors Seminar4 upon completion of six or more hours of upper-division credit for the following programs:

1) University Study Abroad Program; 2) The Washington Center; and 3) Research Experiences for Undergraduates (REU) program.

By the end of the second week of the term in which a student plans to graduate with University Honors, the student must file a completed “Intent to Graduate with University Honors” form with TBHC and complete an exit interview. A student who completes all of the requirements for University Honors will have the designation of “University Honors” entered on the diploma and transcript.
The Burnett Honors College

Summary Table of University Honors Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEP Symposium</td>
<td>12 hours</td>
</tr>
<tr>
<td>Upper-division Major</td>
<td>1 hour</td>
</tr>
</tbody>
</table>

1. Complete one Honors Interdisciplinary Seminar (3 hrs) outside the major.
2. Complete with a grade of "B" or better.
3. Complete three credit hours of Independent Study or one Honors Interdisciplinary Seminar (3 hrs).

University Honors Upper-Division Requirements for Molecular Biology and Microbiology Majors

1. Complete one Honors Interdisciplinary Seminar (3 hrs) outside the major.
2. Complete with a grade of "B" or better.
3. Complete with a grade of "B" or better.
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 instructors who must present course proposals for consideration by the University Honors Committees. Enrollments are limited to 20 students. At least one of these seminars will form part of the revised University Honors upper-division curriculum currently under adoption by each college or major. Other approved upper-division Honors courses may be substituted for the Seminar requirement.

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

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

Eligible UCF freshmen who have been admitted to The Burnett Honors College and are interested in attending medical school have an opportunity to receive guaranteed admission to University of South Florida’s College of Medicine and complete a medical degree in seven years (3+4). Students must apply for the program prior to their first semester at UCF. The first three years of study will be completed at 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 decelerate at any point prior to October 31 of the third year.

Transfer students are not eligible for this program.

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

- Molecular Biology and Microbiology
- 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.

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

Eligibility Requirements

- Florida resident
- SAT score of 1300 or ACT of 29
- Unweighted high school GPA of 3.7
- Class rank (if available) top 10%
- Admission to The Burnett Honors College
- Completion of the Accelerated USF Medical School Application Form with one letter of recommendation following admission to The Burnett Honors College
- Completion of the first year at UCF with a UCF GPA of not less than 3.5 in the sciences and a 3.5 in all other coursework
- 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
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 more 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.
Dean: Thomas L. Keon, BA 230; 407-823-2181  
Associate Dean: Bradley M. Braun, BA 230L; 407-823-5094  
Associate Dean: E. Taylor Ellis, BA 101-W; 407-823-2187

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 Business Administration pending category until they meet the requirements set forth above. Only grades of “C” (2.0) or higher will transfer into the program. Each student should attend orientation for academic advising and should meet with an academic advisor in the College to outline a program of study.
5. A minimum of 12 semester hours must be completed at UCF.

4. Professional courses should not be taken at a community/junior college in the areas of Accounting, Economics, Management Information Systems, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year course areas in the College of Business Administration and cannot be satisfied with community/junior college courses.

3. A student who is enrolled in 15 semester hours of course work is considered to be carrying a normal academic load. Students in the College of Business Administration desiring to take more than 17 semester hours must obtain permission from the College.

2. Undergraduate students in the College of Business Administration should be directed to the Office of Undergraduate Student Services at: BUL 3130; 407-823-2584. The Office of Undergraduate Student Services (USS) is the primary office for undergraduate assistance in the College of Business.

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 211), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023 (or QMB 2100) and CGS 2100. At UCF, students who have completed MAC 2233 and STA 2023 will be 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.

Grade Point Average Requirements

For graduation the student must have maintained a minimum 2.0 GPA in course work taken in the College of Business Administration and a minimum 2.0 GPA in the course work required in the major, and a UCF minimum GPA of 2.0. In addition, Accounting, Finance, Marketing, Management, and Management Information Systems also require a grade of "C" (2.0) or better in each course.

Student Load

A student who is enrolled in 15 semester hours of course work is considered to be carrying a normal academic load. Students in the College of Business Administration desiring to take more than 17 semester hours must obtain permission from the College.

Community/Junior College Transfers Notes

1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida’s community and junior colleges should complete the following courses as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 211), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023 (or QMB 2100) and CGS 2100. At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401 Business Quantitative Tools I. Students who have completed either MAC 2233 or STA 2023, but not both, must take ECO 3401. Completion of these courses will satisfy all prerequisite course requirements for all business and accounting degree programs and will ensure that a student will receive further consideration for admission.

2. Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF’s Business program. Only grades of “C” (2.0) or higher transfer into the program.

3. Florida Public Community College students are advised to complete the Associate of Arts Degree including:
   a. The general education requirements
   b. The one year Accounting and Economics sequence
   c. College Algebra
   d. CGS 2100

4. Professional courses should not be taken at a community/junior college in the areas of Accounting, Economics, Management Information Systems, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year course areas in the College of Business Administration and cannot be satisfied with community/junior college courses.

5. A minimum of 12 semester hours must be completed at UCF within each individual major and 30 hours within the UCF College of Business.

Advisement

Undergraduate Student Services

Director: Helen Y. Hill; B21 101; 407-823-2184

The Office of Undergraduate Student Services (USS) is the primary office for undergraduate assistance in the College of Business. Degree requirements, registration, and any questions concerning University and College academic policies affecting Business majors should be directed to the Office of Undergraduate Student Services staff in BAI1 101 or by calling 407-823-2184. Visit USS’s home page at: http://www.bus.ucf.edu/uss/

Programs and Degrees

Title

Accounting
Business Administration
Economics
Finance
General Business
Management Information Systems
Management
Marketing

Degree

BSBA, MSA, MST
BSBA, MAAE, BA
BSBA
BSBA, MBA
BSBA, MS
BSBA, MS HR
BSBA

Departments and Programs

School of Accounting

Director: A. Judd; BA 437; 407-823-2871
Assistant to Director: S. Smith; BA 438; 407-823-5678
Faculty: Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kelliher, Klintworth, Lacy, Mahoney, Roberts, Roush, Savage, Smith, Vaughn, Veit, J. Welch,

Mission Statement

The mission of the School of Accounting is to provide high quality undergraduate, graduate, and professional educational programs responsive to the needs of students, community, and the profession. Teaching, research, and service are the means of accomplishing this mission. The School offers rigorous programs emphasizing communication skills, critical thinking, ethical practices, interpersonal skills, and technical competence preparing graduates for entrance into the accounting profession.

The School encourages intellectual contributions by faculty through instructional development, applied scholarship, and basic scholarship. The School provides service by participating in university governance, professional organizations, and professional educational programs. (Adopted by the faculty on March 4, 1993, and revised by the faculty on January 10, 1997.)

To prepare for any business career, a strong foundation in accounting and taxation will provide the variety of skills necessary to succeed in today’s complex financial world. An accounting degree prepares students for entry into the fields of industrial, managerial or governmental accounting, with a strong potential for career advancement.

The objective of the baccalaureate program with a concentration in accounting is to provide basic conceptual accounting and business knowledge as a foundation for accounting career development. The undergraduate degree also is the first step toward becoming a Certified Public Accountant. Certified Management Accountant and Certified Internal Auditor. The School of Accounting also offers master’s degrees in accounting and taxation. These programs complete the education required to become a CPA. A rigorous and comprehensive accounting curriculum at UCF focuses on the real-world challenges of accounting, emphasizing problem solving, information analysis and computer applications.

Distinctive Benefits

- Strong industry ties allowing for unique opportunities for placement and advancement.
- A competitive internship program that places graduate students in positions with major employers in the community.
- The opportunity to enroll in outstanding graduate programs in accounting and taxation.
- A very strong faculty known for their teaching excellence.
- Over a dozen scholarships available to advanced students.
- Active student organizations including the Student Accounting Society and Beta Alpha Psi.
- A faculty committed to the continuous improvement of the accounting and taxation programs.
- Outstanding pass rates on the CPA exam.
Degrees: Accounting (BSBA, MSA, MST)
Minors: Accounting

Department of Economics
Chair: D. Hosni; BA 205-D; 407-823-3266, economics@bus.ucf.edu
Faculty: Anton, Braun, Buhagiar, Caputo, Dickie, Elston, Euzen, Finnoff, Gerkings, Gibbs, Hamilton, Harrison, Hofer, Hosni, Im, Martin, McHone, Mikhail, Milan, Moore, Pennington, Potter, Rungeling, Rustrom, Scrogin, Soskin, Tramell, Underwood, White, Xander
Faculty Advisor: R. Pennington; BA 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 develop 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 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 them.

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, McQuilten, Modani, Park, Ragozzino, Ramanal, Scott, Schnitzlein, Singer, Smith, Weaver, Whyte, Winters

The program in finance is designed to provide the student with broad knowledge in finance, including business finance, investments, financial institutions, international finance, risk management and insurance, and real estate. The program provides the student with the theoretical background and tools of analysis required for making effective financial decisions. The study of finance prepares the student for careers in business financial management. Students who major in finance are sought by both financial and non-financial firms.

Distinctive Benefits
- Students prepare for career opportunities in business and corporate financial management, commercial banking, real estate, investment management and counseling, investment banking, mortgage banking, multinational business, insurance and government.
- Students who major in finance are sought by both financial and non-financial firms.
- The rapidly changing domestic and international economies need individuals who have the skills to make sound financial decisions.

Degrees: Finance (BSBA)
Minors: International Business, Real Estate

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 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, Callahan, Callarman, Connell, Fernando, C. Ford, R. Ford, Holland, Huseman, Keon, Migenes, McDonald, D. Neubaum, Putchinski, Quinn, Schminke, Stone, Sussan, Uhl-Bien, Viggiano

Tomorrow’s managers must be prepared to meet the challenges of a highly dynamic and rapidly changing business environment. The objective of the Management program is to prepare students for the excitement and opportunities that this presents. To learn about management, students study the processes and techniques of leadership, planning, controlling and staffing of both small and large organizations.

The curriculum is designed so that students can choose to concentrate in either 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 coursework and prepares them for general management responsibilities.

The General Management major prepares students for a career that involves decision making responsibilities regardless of a specific organization or assignment. The department goal is to emphasize the expertise, knowledge, and skills necessary to be not only a team player, but ideally a team leader. Whether the student is studying leadership, motivation, staffing, or international management, the curriculum will sharpen students’ skills in problem identification, analysis, and solution. The major can lead to a variety of rewarding careers in management positions throughout the organization. The department offers more specialized training - using the same approach - via our Human Resource Management major. Career paths include positions in training and development, personnel and employee relations, equal opportunity and labor relations, human resource consulting, and more. 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: Courtneay, Goodman, Haynes, Hightower, Hornik, Jiang, Johnson, Leigh, McNamara, Porth, Odisho, Saunders, Szymanski, Theinzel, Tidwell, Van Sylte, 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
Impact Marketing 2010

The Marketing major at UCF is called Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott, Faculty http://www.bus.ucf.edu/marketing/index.htm Degrees

Distinctive Benefits

- Challenging field of study that rewards inquisitive students who are willing to work toward a goal.
- 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, Bonnici, Crowson, Das, Davis, Desiraju, Echambadi, Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott, Mayfield-Garcia, Michaels, Rubin, Sooder, Stock, Whang, Yoon

The Marketing major at UCF is called Impact Marketing 2010, or simply IM2010. It provides a superior education in the foundations of marketing such as research, customer behavior, professional selling, management, and strategy. A wide assortment of electives is designed to let each student round out his/her education according to specific career interests, whether that might be retailing, advertising, e-business, research, sales, sports marketing, healthcare, entertainment marketing or services. Internships are also readily available, and count as a marketing elective. Skills emphasized and developed throughout the curriculum are teamwork, communication, creativity, quantitative analysis, computing, problem solving, decision-making, thinking globally, and driving change.

A great benefit for Marketing majors is the opportunity to earn a certificate in any of seven areas of career interest: Selling and Sales Management, Retailing Management, E-Marketing, Sports Marketing Management, Healthcare Marketing, Entertainment Marketing, and Services Marketing. Students can design a personalized certificate program combining elective courses with an internship that will enhance their value to potential employers.

The department offers an 18-hour minor in Marketing. This course of study provides a strong basic education in Marketing for business students with majors other than Marketing or students with majors from other colleges. Earning a minor in Marketing can add significant value and career flexibility for any student with any major.

Marketing is vitally important to all organizations and individuals, from global corporations to small businesses, from CEOs to the proprietors of small retail stores, from global manufacturing operations to a new dot com startup. Nearly one-third of the civilian work force in the United States is employed in jobs related to marketing.

Marketing offers a variety of interesting and challenging career opportunities, such as professional selling, retailing, advertising, marketing research, sports marketing, distribution and logistics, purchasing, and e-business. In addition, students with marketing degrees may find excellent job prospects in international markets. Marketing career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government and social service agencies. Marketing also provides a strong career foundation for movement into top management positions.

Distinctive Benefits
- IM2010 program for Marketing majors recognized as one of the most innovative in the country.
- Seven certificate programs are available for Marketing majors.
- An 18-hour Marketing minor is available for students with other majors.
- Twenty-two dynamic faculty members are among the strongest teachers in the college.
- Comprehensive course offering each semester and summer - you can finish!
- Full-time faculty teach approximately 90% of undergraduate classes offered by the Department.
- Strong emphasis on preparing students for marketing management careers.
- Approximately 15 scholarships awarded annually on a competitive basis.
- Opportunities to participate in honors in the major, internships, independent projects, and directed studies.
- Opportunities to participate in national award-winning student chapters of the American Marketing Association and The Society for Marketing Professional Services (SMPS).

Degrees: Marketing (BSBA)
Minor: Marketing

For more information, visit http://www.bus.ucf.edu/marketing/index.htm, or call 407-823-2108. Department office is located in BA 353.
The role of the College of Education at the undergraduate level is to prepare students for careers as early childhood, elementary, secondary, exceptional, physical, vocational education teachers, and sports and fitness professionals. The College of Education offers Bachelor of Science degrees with the following majors:

- Art Education
- Early Childhood Education
- Elementary Education
- English Language Arts Education
- Exceptional Student Education
- Foreign Language Education
- Mathematics Education
- Physical Education
- Science Education
- Social Science Education
- Sports and Fitness
- 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 CLAST examination (no alternatives or waivers are accepted)
- Complete common program prerequisite courses

Admission to Internship I

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

- Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST)
- Possess minimum overall GPA of 2.5
- Achieve a "C" (2.0) or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I by deadline

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 program as a post-baccalaureate student. Students must meet regular admission requirements for the College of Education and Teacher Education.

Office of Clinical Experiences

Interim 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.
Department of Child, Family, and Community Sciences

Chair: Wilfred D. Wienke; ED 209-H; 407-823-2595
Faculty: Albers, Angelopoulos, Balado, Blanes, Casado, Cross, Diere, Dierker, Edwards, Englehart, Ezell, Fuller, Hartle, Hayes, Hines, Hughes, Jennings, K.D. Jones, L. Jones, Kessel, Klein-Ezell, Little, Manning, Martin, Miller, Mumford, Plapp, Robinson, Rockwell, Taub, Young

Undergraduate academic majors leading to bachelor's degrees and certification are offered in Child, Family, and Community Sciences. Students who major in Early Childhood Education are qualified to teach Pre-Kindergarten through grade 3 upon graduation and receipt of a Pre-Kindergarten through Primary Florida Teaching Certificate. (Pre-Kindergarten Exceptional Student Education is embedded in this certification). Students majoring in special education are certified K-12 in exceptional student education. Students are responsible for completion of program requirements and are encouraged to review their programs with an assigned advisor.

Several graduate level programs are available in the department.

The Master of Education in Exceptional Education: Exceptional Student Education is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exceptional Student Education is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.

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 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 Tomey; 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/trainers interested in working with students in a specific academic or vocational area in middle/junior high school, high school, selected post-secondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, Sports and Fitness, and Technical Education and Industry Training. The Technical Education and Industry Training degree also offers a track specifically designed for students seeking state certification in Business Education (6-12).

K-12 Education

Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. A specialization is available in Art, Foreign Language (French and Spanish), Reading, and Physical Education.
UNIVERSITY OF CENTRAL FLORIDA

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;
ENG 107; 407-823-2455
Director, Academic Support Services: Melissa Falls;
ENG 107; 407 823-2455
Director of College Honors Programs: Jay Kapat,
ENG 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  BSAE
Civil Engineering  BSCE

Civil Engineering - Construction  BSCE
Computer Engineering  BSCpE
Computer Engineering - Software Engineering Concentration  BSCpE
Computer Science  BS
Electrical Engineering  BSEE
Electrical Engineering - Wireless Communication Concentration  BSEE
Electrical Engineering - Microelectronics Concentration  BSEE
Electrical Engineering Technology - Computer Systems Concentration  BSEE
Electrical Engineering Technology - Electrical Systems Concentration  BSEE
Electrical Engineering Technology - Photonics Concentration  BSEE
Engineering Technology - Design Concentration  BSET
Engineering Technology - Operations Concentration  BSET
College Mission Statement

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 at the nationally recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today's engineer, engineering technologist, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is 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 Electrical, Computer, and Systems Engineering (ECE) Department, the Mechanical Engineering and Management Systems (MEMS) Department, the Electrical, Computer, and Systems Engineering (ECE) Department, the Mechanical Engineering and Management Systems (MEMS) 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 Division (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

College Vision

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

College Mission Statement

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 the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, preparing a diverse student body to be effective, contributing members of a technological society and life-long learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of 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.
- A model for university outreach, globalization and partnerships.
- An organization committed to obtaining the highest quality standards in all phases of its operations, processes, and management.
- An organization successful in obtaining resources to support academic development.

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 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 Electrical, Computer, and Systems Engineering (ECE) Department, the Mechanical Engineering and Management Systems (MEMS) 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 Division (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

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

The Engineering Technology Division and Department offers baccalaureate concentrations in Design, Operations and in Space Science, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems, Computer Systems, and in Photonics, all leading to the Bachelor of Science in Electrical Engineering (BSEE) degree. Both the BSET and BSEE degrees are accredited by 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 AF/ROTC program offers a minor in Aerospace Studies, and the AR/ROTC program offers a minor in Military Science.
The Honors Program in the College of Engineering and Computer Science

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

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

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

The Honors in the Major Program

The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate under the guidance of a faculty member in his/her major. The Honors in the Major program recognizes the work of students in the HIM program who are working on an independent project of approximately six semester hours of work. These credit hours are acceptable as technical electives by all programs except for Electrical and Computer Engineering.

Electrical and Computer Engineering students in the HIM program use the HIM credits in lieu of Senior Design I and II. These six credit hours consist of an Honors in the Major Seminar titled Research Methods in Engineering (EGN 4931H) (three semester hours), plus three semester hours of Undergraduate Honors Thesis (EGN 4970H).

The latter will result in an undergraduate thesis which will describe the research done by the student. The student will defend his/her thesis before a committee of faculty in the field as part of an oral examination covering the honors work. A sponsoring faculty member is required to supervise the undergraduate thesis.

In order to be admitted to the Honors in the Major program, the student must:

1. Have at least 60 semester hours, including at least 12 graded, upper division semester hours at UCF.
2. Have a minimum UCF GPA of at least 3.20 in all upper division courses.
3. Have a minimum GPA of 3.50 or more in the Engineering option courses.
4. Have a recommendation by a sponsoring faculty member. Exceptions to the eligibility criteria may be made by the College Honors Committee in individual cases, upon recommendation by a sponsoring faculty member.

To successfully complete the HIM program and receive said designation, the student must successfully defend the thesis and graduate with a minimum 3.5 GPA in the option courses, and minimum 3.2 GPA at UCF. No exceptions to this policy will be made for graduation. Successful candidates will be awarded an Honors in Engineering/Engineering Technology/Computer Science mention on the diploma and transcript, representing satisfactory completion of the program. Moreover, each department will award a limited number of graduate scholarships (with tuition waivers) to those who apply for graduate school and have successfully completed this program.

Application for admission to the Honors in the Major Program must be made to the College of Engineering and Computer Science Honors Director, Avelino Gonzalez, Engineering Building, room 411.
### The Environmental Engineering Program

The Environmental Engineering major is concerned primarily with the interactions with humans and their environment and the planning, design, and control of systems for environmental quality management for water, land, and air environments.

Environmental Engineering students are required to take a minimum of two Project Design Courses (out of four offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

**Mission**

The Environmental Engineering Program Faculty strives to create a high quality learning experience for our students. The principal goals include:

1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Environmental Engineering graduate education and research.

**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](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, Bassiouni, Brigham, Deo, Dutton, Favorov, Foroosh, Frederick, Gerber, Gomez, Guha, Heinrich, Hughes, Lang, Lee, Leeson, Lisetti, Llewellyn, Lobo, Marin, Marinescu, R. Miller, Moshell, Mukherjee, Orooji, Parsons, Pattanaik, Reinhard, Rogers, Rolland, Shah, Vemulapati, 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 may use required elective credit to concentrate their degree in one of many research areas, including computational biotechnology, computational complexity, computational geometry, computer architecture, computer graphics, computer networks, computer simulation, computer vision, databases systems, design and analysis of algorithms, distributed computing, digital media, evolutionary computing, graph theory, machine learning, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, software engineering and VLSI design tools and hardware algorithms.

Research facilities are organized around laboratories directed by faculty members. Facilities in these laboratories change rapidly and are generally funded through external research grants, supplemented by grant matching and startup funds from SCS. To learn about the current status of research facilities and projects, visit faculty web pages. These may be found by following links from the computer science home page at [http://www.cs.ucf.edu](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 infor-
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 those 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 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.

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

Certificates: Applied Computer Science and Computer Information Technology

Department of Electrical and Computer Engineering

Acting Chair: Issa Batarseh; ENGR 407; 407-823-2787

Faculty: Batarseh, Demir, Benios, Boloni, Chatterjee, DeMara, Ejinjou, Georgopoulous, A. Gonzalez, F. Gonzalez, Haralambous, Jones, Kasparis, Klee, Kokar, Liu, Malocha, Mikhail, Petasko, R. Phillips, Qu, Richie, Schiavone, 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 experience provides 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 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, 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, which includes courses listed as Linear Control Systems (EEL 3657), Electronics I and II (EEL 3307C and EEL 4308C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Computer Systems Design I (EEL 4767C), Networks and Systems (EEL 3123C) and Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design 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 Electrical Engineering Degree Program is to educate students to become highly skilled in the principles and practices of electrical engineering and develop electrical engineers that meet market needs.

Objectives
1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in electrical engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the electrical engineering discipline, including the ability to design systems and processes, conduct, and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The mission statement and objectives for the Computer Engineering and Electrical Engineering programs are electronically posted and
2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:

- Design systems, components, and processes to meet desired needs.
- Identify, formulate, and solve industrial engineering problems.
- Use industrial engineering techniques, skills, and tools for engineering practice.
- Be a productive member of multi-disciplinary teams.
- Communicate effectively in both written and spoken presentations.
- Incorporate contemporary issues into the practice of industrial engineering, including global communication.
- Have the knowledge to become a Professional Engineer (PE) in the IE discipline.

3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:

- Make decisions in light of professional and ethical responsibilities.
- Understand the impact of engineering solutions in a global and societal context.
- Understand contemporary issues into the practice of industrial engineering.
- Engage in life-long learning.

4. BSIE graduates seeking professional employment or admission to graduate education programs will be successful in doing so within six months of graduation.

5. IEMS students will receive relevant curriculum content in a learning environment that facilitates learning and retention.


Department of Mechanical, Materials, and Aerospace Engineering

Chair: Ranganathan Kumar; ENGR 307; 407-823-2416, Fax 407-823-2028
Faculty: An, Bandary, Bishop, Q. Chen, R. Chen, Chew, Cho, Chow, Coffey, Conway, Desai, Fang, Giannuzzi, Hagedoom, Ham, Ilgbusi, Johnson, Kalita, Kapat, Kar, Kassab, Klenzien, Leonessa, Lin, Minardi, Moslehy, Nayfah, Nicholson, Peterson, Seal, Sohn, Suryanarayana, Vaidyanathan, Xu

The Department of Mechanical, Materials, and Aerospace Engineering offers undergraduate degree programs in Mechanical Engineering and Aerospace Engineering. The Aerospace Engineering program is designed to provide a broadly-based foundation in aeronautics and astronautics, including topics such as aerodynamics, propulsion, aerostructures, and materials, flight dynamics, and control and performance.

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, aerostructures, and materials, flight dynamics, and control and performance.

Both programs seek to convey an understanding of the fundamental principles of science and engineering, to stimulate curiosity and creativity, to provide hands-on experience in laboratories, and to prepare students to design systems which solve current and relevant societal problems. The design experience begins in the freshman engineering courses and grows throughout the curricula with increased emphasis on student creativity, open-ended problems, materials selection, design methodology, feasibility considerations, alternative solutions, and concurrent design, and culminates in the senior capstone design courses. The use of computers and written and oral communication are part of the design experiences throughout the programs.

Mission: Aerospace Engineering

In support of the University and College missions, the Aerospace Engineering program at UCF is committed to provide the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be lifelong learners, pursuing their personal and professional development.
Aerospace Engineering Program Educational Objectives and Outcomes

Career Preparation: The program prepares graduates for employment as engineers in aerospace or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize aeronautical systems or space systems, and will have a command of corresponding engineering principles. Among the obvious career opportunities are the design and development of aircraft, missiles, and spacecraft systems. Aerospace technologies are also important and applicable to power applications such as turbomachinery. Also, many environmental problems associated with wind effects on buildings, structures, etc., are appropriate to the methods and technology of aerospace engineering.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in aerospace technology, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate aerospace 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

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

Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746
Assistant Chair: A. Rahrooh; ENGR 212; 407-823-4749
Assistant Chair: R. Coowar; ENGR 207; 407-823-4741
Faculty: 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.

Bachelor of Science in Electrical Engineering Technology (BSEEET) Coordinator: Alireza Rahrooh

This program in electrical engineering technology, leading to the BSEEET 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, computing, 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) Coordinator: Lucy Morse

The BSET curriculum consists of a carefully integrated program that includes professional studies, general education, and applied mathematics and sciences. Through the selection of the upper level technical concentration students can build and tailor their program, based on previous knowledge to assist them to launch a career that best meets their needs and aspirations. The Design concentration provides advanced course work in preparation for employment at the baccalaureate level in the fields of manufacturing, testing and fabrication of mechanical parts, and the building and construction industries. Graduates may become involved in applied design, product development, manufacturing or production, to name but a few. The Operations concentration provides an orientation for professional careers in technical management and operations in the manufacturing, sales, services, and construction industries. Graduates may become involved in many diverse areas including product development, manufacturing, quality assurance and logistics, sales, field engineering, technical writing and safety. 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 lower division core as well as a common upper division core.
Requirements for entry into the Professional Officer Course

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 or e-mail us at AFROTC@ucf.edu. This information is subject to change.

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

Officer Commissions
Students who complete the Professional Officer Course are appointed Second Lieutenants in the United States Air Force. After completing the training program and entering active duty with a reserve commission, they will serve a minimum active duty tour which varies in length depending on their particular career area (typically four years). Such obligations are explained in detail during the one-on-one counseling sessions conducted with each candidate by detachment officers.

Army ROTC (Military Science)
Chair: LTC John J. Ruzich; Trailer 501, Room 110
Faculty/Staff: MAJ Christensen, MAJ Sanderson, CPT Huggins, CPT Nelson, CPT Plumtree, MSG Helms, SFC Celestine, SSG Phillips, SSG Blount, SGT Rodriguez, Ms. Martin, Office Manager; 407-823-2430, Fax 407-823-5324
The University of Central Florida, in cooperation with the US Army, provides an opportunity to earn a commission as a Second Lieutenant and compete for a guaranteed active duty assignment or accept a guaranteed Army Reserve or National Guard position. The program offers both a four-year and two-year option for students working on their Associate of Arts, Baccalaureate or Graduate degrees. The two-year option allows students with at least two academic years remaining in either undergraduate or graduate studies to meet all requirements for commissioning. Students may be eligible for the Army's Simultaneous Membership Program (SMP) which combines Reserve Forces Duty with Army ROTC officer training courses on campus.
Students earn about $7500.00 in their last two years. Note: The Army retains sole discretion - in accordance with public law and military regulation - regarding whether or not any applicant is qualified for pre-commissioning education through Army ROTC. More information on the AROTC program can be found on the AROTC Department home page: http://army.ucf.edu

Curriculum
The Military Science on-campus curriculum is divided into two phases:
1. Basic Military Science Course and Advanced Military Science Course.
   A. Basic Military Science
      The Basic Military Science courses, open to both men and women, are offered during the freshman and sophomore years. These courses address military organizations, equipment, operation, map reading, land navigation, management skills, grade structure, communications and leadership. There are non-contractual obligations or commitments for students in the Basic course phase. The Basic Course phase offers students the opportunity to see what Army ROTC is all about (MSL 1101, 1102, 2201, 2202). Students will also participate in a Field Training Exercise (FTX). These courses fulfill pre-requisite requirements for entering
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 the school year. Each student is required to take courses that meet the Army’s Professional Military Education Requirements. Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced program. They must also successfully complete a 32-day Advanced Leadership Camp at Fort Lewis, WA, normally between their junior and senior years.

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

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

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

5. Placement Credit
Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

6. Daytona Beach Campus Students
These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 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. National Advanced Leadership Camp (NALC)
All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student’s leadership performance and potential. Students normally attend NALC after their junior year and receive approximately $800 pay.
The College of Health and Public Affairs houses seven departments and schools: the School of Nursing, the School of Social Work, and the departments of Communicative Disorders, Criminal Justice and Legal Studies, Health Professions, Molecular Biology and Microbiology, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health, social and justice services, and basic and applied life sciences. 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, Medical Laboratory Sciences, Health Information Management, and Radiologic Sciences.

Application must be made to the appropriate program in health sciences. For Social Work and Nursing, contact the appropriate School. Additional information regarding prerequisites and grade point averages may be obtained from the desired School, Program, Department, or College website.

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

Programs and Degrees

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<th>Major</th>
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<tr>
<td>Biomolecular Science</td>
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<tr>
<td>Cardiopulmonary Sciences</td>
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<tr>
<td>Communicative Disorders</td>
<td>BA, BS, MA</td>
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<tr>
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<tr>
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<td>Legal Studies</td>
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<tr>
<td>Medical Laboratory Sciences</td>
<td>BS</td>
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<tr>
<td>Molecular Biology and Microbiology</td>
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<tr>
<td>Nursing</td>
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<td>Public Administration</td>
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<td>Physical Therapy</td>
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<td>Radiologic Sciences</td>
<td>BS</td>
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<tr>
<td>Social Work</td>
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Certificates

The completion of program requirements leads to the degree of Bachelor of Science Degree. 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.

The primary goal of the program in Health Services Administration is to prepare managers to direct a variety of health care organizations such as hospitals, HMO’s, clinics and any other organization involved in the delivery or management of health care services. The undergraduate curriculum is consistent with the curricular requirements of the Association of University Programs of Health Administration, stressing administration, policy and planning skills. A diverse health care community offers students a variety of internship experiences as well as providing placement opportunities upon graduation. Faculty are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment and integrated delivery mechanisms.

Program in Cardiopulmonary Sciences

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

The major in Cardiopulmonary Sciences (which includes the Respiratory Care Program) leads to the Bachelor of Science Degree. In the professional curriculum, students study advanced courses in respiratory therapy, pharmacology, life support systems, disease assessment, clinical practice, diagnostics, and patient management. Upon completion of the undergraduate program, the baccalaureate individual will possess basic and advanced level skills and should be prepared to assume future leadership roles within the profession. Graduates will be prepared to become Registered Respiratory Therapists through licensure by the State of Florida.

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association. This is a limited access program and requires a separate application to the program by February 1 of the year in which admission is sought.

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

Program in Health Information Management

Director: Tom Falen; HPA 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...
The curriculum of the Health Information Management program is approved by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in collaboration with the Council on Accreditation of the American Health Information Management Association. This is a limited access program and requires a separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management program are eligible to take the AHIMA Registered Health Information Administrator Certification exam. By successfully passing the exam, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

Degrees: Health Information Management (BS)
Tracks: None
Minors: Health Information Management

Program in Health Sciences-Athletic Training
Director: D. Cassidy; HPA2 124; 407-823-3463

This program in athletic training at the University of Central Florida is a track in the Department of Health Professions in the College of Health and Public Affairs. The athletic training track is a six semester program where students complete 12-15 credits per semester while engaged in clinical rotations. The core of athletic training coursework will emphasize skills and competencies necessary for successful clinical practice in a variety of settings in which athletic trainers are presently employed. A significant and important aspect of the educational program will be clinical experiences that will occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, sports medicine clinics, and professional athletic organizations. The unique aspect of the athletic training curriculum is that upon successful completion of the course of study, it will provide the graduate with a Bachelor of Science degree in Health Sciences and the eligibility to take the National Athletic Trainer’s Association Board of Certification (NATABOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (A.T.C.). The Academic 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 Program 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: None
Minors: Health Sciences

Program in Health Services Administration
Director: T. Falen; HPA2 124; 407-823-2369

The Program offers a baccalaureate degree in Health Services Administration. The baccalaureate degree is designed for students who desire to study the business side of health care. People within the health care industry with associate degree/selected 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 graduate and undergraduate education, and for the four-year health professions (chiropractic, medical, dental, optometric, podiatry, pharmacy, and veterinary medicine).

Degrees: Molecular Biology and Microbiology (BS, MS)
Tracks: None
Minors: Molecular Biology and Microbiology
Program in Medical Laboratory Sciences

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

Medical technologists are involved in medical diagnosis, treatment, surveillance, management, research, and education. They use highly sophisticated equipment such as electronic cell counters, automated analyzers, computers, and microscopes in the examination of body tissues and fluids.

The curriculum is designed to give students a thorough background in the physical and biological sciences; to develop the understanding, skill, and ability essential to assume leadership roles in management and education; to develop a high level of proficiency in the clinical laboratory; and to develop an awareness for continuing education needed for professional growth.

The last two years of sequential courses constitute the upper division portion of the Program. The size of the class in the Medical Laboratory Science Program is determined by the availability of space and equipment, and available spaces in the clinical facilities.

This is a limited access program that requires a separate application to the program. Preference will be given to those who apply by March 1st but applications will be accepted until the class is filled.

The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAA-CLS) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

**Degrees:** Medical Laboratory Sciences (BS)

**Tracks:** None

**Minors:** None

School of Nursing

**Director:** Jean D. Leuner; HPA 220; 407-823-2744

**Faculty:** Brown, Browne-Kramlsey, Bushy, Byers, Chen, Connell, Covelli, Dennis, Desmarais, Dorner, Dow, Hennig, Holtzrub, Hoyt, Kiehl, Kijek, Lafferty, Lange, Leli, Mayer, Pelliccio, Peterson, Rudner, Ruland, Saenz, Savitz, 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 acute, community, and rehabilitative settings. Program emphasis includes clinical nursing practice, health promotion and maintenance, and preparation for assuming leadership roles. The baccalaureate curriculum provides the foundation for graduate study in nursing.

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

Registered nurses licensed in Florida are eligible for admission into the RN to BSN Program at UCF. Each applicant is reviewed individually and guided to prevent repetition of previous coursework. RNs may submit applications during any semester. Contact the School of Nursing for specifics on the RN-BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, Leesburg and Ocala campuses. The RN-BSN course work is also offered via the Internet.

The goal of the MSN program is to prepare advanced practice nurses to assume leadership positions in a variety of healthcare settings. Majors include Nurse Practitioner (Family, Adult, or Pediatric), Clinical Nurse Specialist, and Nursing Leadership and Management.

Minimum hours for the degree are 43-49 hours of graduate work depending on the major. Either a thesis or research scholarly project is required. Student must be a licensed Registered Nurse in Florida.

The doctor of philosophy in Nursing (PhD) program prepares nurses 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. 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 Wart; HPA2 238; 407-823-2604

**Faculty:** Berman, Colby, Feldheim, Jurie, Korosec, Kapucu, Lawther, Liou, Rogers, Wang

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

**Degrees:** Public Administration (BA, BS, MPA)

**Tracks:** None

**Minors:** Public Administration, Urban and Regional Planning, Emergency Management, American Humanities

**Certificates:** Non-Profit Management

School of Social Work

**Director:** Paul Maiden; HPA 204; 407-823-2114

**Faculty:** Abel, Allgood, J. Davis, L. Davis, Dziegielewski, Gammonley, Green, Jacinto, Kohn, Leon, Maiden, Massey, Turnage, VanHook, Zuckerman

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 in the field of child welfare or related areas. The Addictions Certificate (open to Social Work majors only) prepares students to work in the field of adult and adolescent substance abuse.

**Degrees:** Social Work (BSW, MSW)

**Tracks:** None

**Minors:** Aging Studies, American Humanities

**Certificates:** Addictions, Aging Studies, Children's Services
The hospitality industry currently represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen School of Hospitality Management is ideally situated to prepare students for managerial careers in the hospitality industry. Whether the student is interested in entering lodging, food service, travel and tourism, financial management and technology, theme parks, vacation ownership resorts, or conventions and destination services management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 42 million tourists each year, has over 400 hotels with 112,000 rooms, 4,000 restaurants, and 75 theme parks and attractions. The industry employs a half million people in the State of Florida and many are in the Central Florida area.

The educational mission of the School is to provide students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, and to apply creative decision techniques in responding to those opportunities.

The curriculum is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and practical experiences that students will need to enter and succeed in a hospitality management career. Students also have the opportunity to experience the work world in hospitality through an internship requirement and through extensive contact with leading hospitality managers in the Central Florida area.

The School also houses the Linda Chapin Eminent Scholar Chair in Tourism Management and the Dick Pope Sr. Institute for Tourism Studies which was created and funded by the travel and tourism industry in Central Florida. The Institute conducts research and gathers information that helps the entire Orlando area hospitality industry better understand and serve its many guests from around the world.

The Center for Multi-Unit Restaurant Management and the Darden Eminent Scholar Chair in Restaurant Management provides a unique focus in the curriculum on corporate restaurant management. Students have access through the Center to leading restaurant industry executives. This academic unit is an integral part of the Rosen School of Hospitality Management.

Distinctive Benefits
- A brand new state-of-the-art facility located in the heart of the tourism district in Orlando, Florida.
- Access to the many hospitality organizations that serve one of the premier tourist destinations in the world.
- Extensive ties with the top leadership of the Orlando area hospitality industry.
- A large number of scholarships made available through the generous support of the industry.
- A faculty committed to continuously improving their knowledge of the hospitality industry as well as their ability to teach that knowledge to their students.
- A required work experience that provides students with practical experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with experience in food preparation.
- American Resort Development Association (ARDA) Professorship of Vacation Ownership.
- Central Florida Hotel and Lodging Association (CFHLA) Professorship of Convention and Conference Management.

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

Minor:
- Hospitality Management
<table>
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<tr>
<th>Department</th>
<th>Track/Concentration</th>
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<td>Accounting</td>
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<td>Art</td>
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<td>Art - Animation Track</td>
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<td>Economics (B.A. &amp; B.S.B.A.)</td>
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<td>Electrical Engineering Technology - A.S. to B.S.E.E.T. Track</td>
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<td>Radiologic Sciences</td>
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<td>Restaurant and Foodservice Management</td>
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<td>Science Education - Biology</td>
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<td>Sports and Fitness</td>
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<td>Statistics</td>
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<td>Technical Education and Industry Training</td>
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<td>Theatre (B.A. &amp; B.F.A.)</td>
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<td>Theatre - Musical Theatre Track</td>
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ACCOUNTING (B.S.B.A.)
College of Business Administration, BA2 101, 407-823-2184
http://www.bus.ucf.edu

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

Degree Requirements
1. UCF General Education Program (min 36 hrs)
   A. Communication Foundations
   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
   - Select one: STA 2023, STA 2024, STA 2026
   - ACG 2071 Principles of Managerial Accounting
   - ACG 2100C Computer Fundamentals for Business
   - Select one: MAC 2233, STA 2024, STA 2026
   - A minimum grade of “C” (2.0) must be earned in each accounting course.
   - Students who change degree programs and select this major in the UCF College of Business Administration.
   - Students must have at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411) to be counted towards this 60 hour requirement.
   - 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 readmittance as an accounting major. All students must have a “C” (1.75) or lower is not satisfactory for continuing into other accounting courses and will not count toward graduation for an accounting major.
   - Students who have completed both classes with a “C” (2.0) or better must take 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 3 hrs
     - ACG 3356 Intro to International Business 3 hrs
   - First or subsequent semesters depending on major:
     - ECO 3411 Quantitative Business Tools II 3 hrs
     - FIN 3403 Business Finance 3 hrs
     - ISM 3011 Essentials of Management/Information Systems 3 hrs
     - MAR 3023 Marketing 3 hrs
     - BUL 3130 Legal and Ethical Environment of Business 3 hrs
   - Last Semester:
     - MAN 4720 Strategic Management 3 hrs

4. Special College and/or Departmental Requirements
   - Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411) to count towards this degree.
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students 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 readmittance as an accounting major. All students must have a “C” (1.75) or lower is not satisfactory for continuing into other accounting courses and will not count toward graduation for an accounting major.
   - Additional, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - All students must have credit for a course in each of the following areas:
     - English communication arts including written composition
     - Oral expression
     - Behavioral science such as psychology, anthropology, and sociology
     - Humanities
     - Political environment of business and society such as political science, public administration, and ethics
   - 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 3 hrs
   - ACG 4401 Accounting Information Systems 3 hrs
   - ACG 3361 Intermediate Managerial Accounting 3 hrs
   - TAX 4001 Taxation of Business Entities and Transactions 3 hrs

6. Area Specialization/Concentration Requirements (9 hrs)
   - Select one set from the following area specialization options:
     - A. Public Accounting
       - ACG 3141 Intermediate Financial Accounting 3 hrs
       - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
       - ACG 4651 Auditing 3 hrs
     - B. Managerial Accounting
       - ACG 4671 Internal Auditing 3 hrs
       - ACG 5346 Intermediate Managerial Accounting 3 hrs
       - FIN 3414 Intermediate Corporate Finance 3 hrs
     - C. Accounting Information Systems
       - ACG 4671 Internal Auditing 3 hrs
       - ACG 5405 Advanced Accounting Information Systems 3 hrs
       - ISM 3005 MIS Techniques 3 hrs
     - D. Governmental and Not-For-Profit Accounting
       - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
       - ACG 4671 Internal Auditing 3 hrs
       - ACG 5517 Financial Accounting and Auditing for Governmental and Nonprofit Organization 3 hrs
   - E. General Accounting
     - Select one additional financial reporting course:
       - ACG 3141 Intermediate Financial Accounting or ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
       - Select one auditing course:
       - ACG 4651 Auditing 3 hrs
       - ACG 4671 Internal Auditing 3 hrs
   - Select one additional accounting course from the following:
     - Restricted Electives listed below:
     - Note: Course substitutions in any area require approval by the Director, School of Accounting. A grade of “B” or better in pre-requisite course required to take graduate level courses.

7. Restricted Electives (3 hrs)
   - Students may choose among the following accounting and accounting-related business courses:
     - ACG 3131 Financial Accounting Concepts and Analysis 3 hrs
     - ACG 3361 Intermediate Managerial Accounting 3 hrs
     - ACG 3141 Intermediate Financial Accounting 3 hrs
     - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
     - ACG 4401 Accounting Information Systems 3 hrs
     - ACG 4651 Auditing 3 hrs
     - ACG 4671 Internal Auditing 3 hrs
     - ACG 4922 Approved Special Topics Courses in Accounting 3 hrs
     - ACG 4000I Honors Thesis in Accounting 3 hrs
     - TAX 4001 Taxation of Business Entities 3 hrs
     - ACG 5346 Advanced Managerial Accounting 3 hrs
     - ACG 5405 Advanced Accounting Information Systems 3 hrs
     - ACG 5517 Governmental and Nonprofit Accounting 3 hrs
     - ACG 5205 Advanced Financial Accounting 3 hrs
     - BUL 5332 Advanced Business Law Topics 3 hrs
     - FIN 3414 Intermediate Corporate Finance 3 hrs
     - FIN 4453 Financial Models 3 hrs
     - ISM 3005 MIS Techniques 3 hrs
     - ISM 4212 Database Management Systems 3 hrs
     - TAX 5015 Advanced Taxation Topics 3 hrs
     - (HPA electives to be added for Governmental Specialization)
   - **Enrollment restricted to students accepted into the Honors in the Major Program

8. Honors in the Major (6 hrs)
   - UCF DEGREE PROGRAMS
UCF Degree Programs

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 3 hrs
- ACG 4970 Honors Thesis in Accounting 3 hrs

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

9. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Students pursuing a Bachelor of Arts Degree may substitute American Sign Language for the foreign language exit requirement, except where one or more foreign languages have been specified by a college, school, or program for a specific degree.

Graduation: none

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

CPA Examination Requirements
Effective August 31, 1983, Florida Law states that to qualify to sit for the CPA exam, one must possess thirty (30) additional semester hours of credit beyond the minimum requirements for the baccalaureate degree. In addition to this overall educational requirement, the following specific criteria also apply:
- 36 hours in accounting beyond elementary, including coverage of financial accounting, auditing, cost and managerial accounting, and taxation.
- 39 hours in general business, including at least 6 hours of business law.

Because of these increased educational requirements, no experience or additional course work is needed for certification. To satisfy the necessary coursework required by the law, the School of Accounting offers the Master of Science in Accounting (MSA) and the Master of Science in Taxation (MST) degree programs. Please see the Graduate Catalog for program requirements. For additional information about the department, curriculum, faculty, events, and careers in accounting, students are invited to visit our department home page at: http://www.bus.ucf.edu/acc/

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Micro-economics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative

Business Tools I.

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher will 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 satisficed 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

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<td>MAC 1105*</td>
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<td>CGS 2100C*</td>
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<td>*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.</td>
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<td>Must complete 9 hours in a Summer term</td>
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Sophomore

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<td>*C (2.0) or better grade required in each class</td>
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<tr>
<td>** Accounting majors must have a “C” (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major</td>
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Junior

<table>
<thead>
<tr>
<th>Course</th>
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<td>GEB 3313</td>
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<td><strong>BUL 3130</strong></td>
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<td><strong>ISM 3011</strong></td>
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<tr>
<td><strong>ACG 3130</strong></td>
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<tr>
<td><strong>ACG 4401</strong></td>
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<tr>
<td><strong>ACG 3361</strong></td>
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<tr>
<td>** Accounting majors must have a “C” (2.0) or better in each class to include law and tax and a 2.0 GPA in major</td>
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Senior

<table>
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<td><strong>TAX 4001</strong></td>
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<td>ACG Specialization</td>
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<td>FIN 3403</td>
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<tr>
<td><strong>ACG Specialization</strong></td>
<td>3</td>
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<tr>
<td><strong>ACG Restricted Elective</strong></td>
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<td>MAR 3203</td>
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<tr>
<td><strong>Elective</strong></td>
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</tbody>
</table>

***General electives as required to reach 120 semester hours.

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

Admission Requirements
Students must apply for admission to the Actuarial Science Concentration by March 15 of the Spring semester two years prior to expected graduation. Transfer students expecting to graduate in less than two years should apply immediately upon admission to UCF.
1. UCF General Education Program (39 hrs)
A. Communication Foundations
Communication 2010 3 hrs
B. Cultural and Historical Foundations
Hispanic/Latino Studies 1010 3 hrs
C. Mathematical Foundations
Mathematics 1101 3 hrs
D. Social Foundations
ECO 2023 Microeconomics 3 hrs
E. Science Foundations
Biological Sciences 1101 3 hrs

2. Common Program Prerequisites (14 hrs)
COP 3502C Computer Science I 4 hrs
ECO 2013 Macroeconomics 3 hrs
ECO 2023 Microeconomics 3 hrs
MAC 2311 Calculus I 4 hrs
MAC 2312 Calculus II 4 hrs
MAC 2313 Calculus III 4 hrs

3. Core requirements (47 hrs)
AGC 2021 Principles of Accounting 3 hrs
STA 2023 Statistics I 3 hrs
STA 4321 Theory of Interest 3 hrs
STA 4323 Life Contingencies I 3 hrs
STA 4331 Life Contingencies II 3 hrs
COT 4500 Numerical Calculus 3 hrs
ENC 3241 Writing for Technical Professionals 4 hrs
BSC 2010C General Biology 4 hrs
Select one course
MAS 3105 Linear Algebra 3 hrs
MAS 3106 Mathematical Reasoning 3 hrs

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

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

5. Departmental Exit Requirements
Earn a grade of “C” (2.0) or better in each STA course.
Computer competency met by COP 3502C.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

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

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

Total Semester Hours Required 120 hours

Related Programs: Mathematics, Mathematics Education, Statistics
Related Minors: Statistics, Mathematics

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
COP 3502C*: any COP programming language course.
However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
BSC 2010C*: any laboratory BSC, CHM, or PHY course.
However this is a prerequisite for BSC 2011C and will need to be taken.

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, 2004 for Spring 2005
Feb 1, 2005 for Summer 2005
July 1, 2005 for Fall 2005
Attain an overall minimum 2.25 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies somewhat with the quality of applicants, but for the previous acceptance periods, the minimum GPA did not drop below 3.3.
Have acceptable keyboard skills.
Receive a positive evaluation of other factors specified by the School.

Degree Requirements
Students who change degree programs and select this major
UCF Degree Programs

must adopt the most current catalog.

- Co-op credit can be used in the major
- Students should consult with a departmental advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Communication
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation
- A maximum of six credit hours of internship may be earned in one semester. A total of nine credit hours of internship may be earned within the 120 credit hours required for graduation.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   - Select ENC 1101 & 1102 Composition
   - Select SPC 1600 Fund Oral Communication
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

   SPC 1000 Fund Oral Communication
   - GEP

3. Core requirements (30 hrs)

   ADV 3000 Principles of Advertising
   - 3 hrs
   ADV 4101 Advertising Copywriting
   - 3 hrs
   ADV 4103 Radio-TV Advertising
   - 3 hrs
   COM 3110 Business and Prof Communication
   - 3 hrs
   MMC 4254 Ad/PR Campaigns
   - 3 hrs
   MMC 4240 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 4001 Public Relations Case Studies
   - 3 hrs

   Students who complete a 3-hour internship may take either
   PUR 4801 or ADV 4103.

4. School Exit Requirements

- To avoid delaying graduation, the student must request a review of requirements before registering for the last term.
- Achieve an average overall “C” GPA (2.0) in required UCF Ad/PR courses. This GPA does not include electives.
- Computer Competency met by program admission test

5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: 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.

6. Electives (variable)

Select primarily from upper level courses, with School advisor’s approval. Should be taken outside of the School of Communication.

7. University Minimum Exit Requirements

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

Total Semester Hours Required

120 hours

Related Programs: Marketing

Related Minors: Business, Marketing, Psychology

Transfer Notes:

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

AEROSPACE ENGINEERING (B.S.A.E.)

College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering Department

ENGR 307, 407-823-2416; Fax 407-823-0208
http://www.mme.ucf.edu

R. H. Chen, ENGR 307; E-mail: chenh@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 aerospace engineering academic advisor in the department of his/her major.
- Each student must seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students

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

   A. Communication Foundations
      - 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 (4hrs)
      - 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
      - 7 hrs
      - 1. Take MAC 2311, Calculus with Analytic Geometry I
      - 2. Take MAC 2312, Calculus with Analytic Geometry II
      - 3. Prefer SPC 1016

   D. Social Foundations
      - 6 hrs
      - 1. Take ECO 2013 or ECO 2023
      - 2. Take ANT 2000, PSY 2012, or SYG 2000

   E. Science Foundations
      - 7 hrs
      - 1. Take PHY 2048/48L

2. 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
   (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 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 requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3343 Thermodynamics 3 hrs
EAS 3706 Structure & Properties of Aerospace Materials 3 hrs
EAS 3373 Principles of Electrical Engineering 3 hrs
STA 3022 Probability & Statistics for Engineers GEP
EAS 3010 Fundamentals of Aerospace Flight 1 hr
EAS 3101 Aerodynamics I 3 hrs
EAS 3800C Aerospace Engineering Measurements 3 hrs
EAS 3101C 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 4330 Space Systems Concepts or EAS 4000 Spacecraft Attitude Dynamics or EAS 4505 Orbital Mechanics 3 hrs
EAS 4300 Aerothermodynamics-Propulsion System 3 hrs
EML 3034 Modeling Methods in MMEA 3 hrs
EML 3312C Feedback Control 3 hrs
EML 3601 Solid Mechanics 3 hrs
EML 3701 Fluid Mechanics I 3 hrs
EAS 4404C Introduction to CAD/CAM of Aerospace Vehicles 3 hrs
EML 4535C Elementary Concepts of Aeronautics 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 courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- EGN 4412C Interdisciplinary Design I or EAS 4700C Aerospace Design I 3 hrs
- EGN 4413C Interdisciplinary Design II or EAS 4710C Aerospace Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

7. University Minimum Graduation Requirements

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

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

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 technical elective for transfer students.

Tentative Course Schedule for Entering Freshmen

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

Aerospace Engineering - 128 semester hours required

FIRST YEAR

Fall (14 cred hrs, 18 cont hrs)
- ENC 1101 English Comp I 3
- CHS 1440 Chem for Eng or CHS 2450 3
- MAC 2312 Calculus II 4
- EGN 1006C Intro to Eng Prof 1
- EGN 1111C Eng Comp Graphics 2
- *SPC 1016 Tech Presentations 3

Spring (15 cred hrs, 19 cont hrs)
- EGN 1007C Eng Conc/Meth 1
- *ENC 1102 English Comp II 3
- MAC 2312 Calculus II 4
- *PHY 2048 Phys Eng/Sci I w/lab 4
- EGN 1111C Eng Comp Graphics 2

SECOND YEAR

Fall (14 cred hrs, 17 cont hrs)
- Humanities/History 1a 3
- *MAP 2302 Diff Equations 3
- *PHY 2049 Phys Eng II w/lab 4
- EGN 3310 Eng Anal - Statics (PR: EGM 3310, CR: MAC 2313) 3
- EAS 3010 Fundamentals of Aerospace Flight 1
- (PR: CHS 1440 & MAC 2282) Social Foundations 3

Spring (12 cred hrs, 12 cont hrs)
- EGN 3373 Prin Elec Eng 3
- (PR: PHY 2049, CR: MAP 2302) EGN 3331 Eng Anal - Dynamics 3
- EGN 3310 Eng Anal - Statics (PR: EGM 3310, CR: MAC 2313) 3
- EML 3041 Solid Mechanics 3
- (PR: EGN 3310, CR: MAP 2302) 3

SUMMER

Fall (9 cred hrs, 9 cont hrs) 1
- ECO 2013 or 2023 Macro or Micro 3
- Humanities/History 1a 3
- STA 3032 Prob & Stats/Engrs 3

THIRD YEAR

Fall (15 cred hrs, 19 cont hrs)
- EML 3034 Model Meth's MMEA 3
- (PR: EGN 1111C, MAP 2302, High Lev Prog; CR: EGN 3321) 3
- EML 3701 Fluid Mechanics I 3
- (PR: MAP 2302, EGN 3343) 3
- EAS 3800C Aerosp Eng Mrk 3
- (PR: EGN 3321, CR: EGN 3343) 3
- EML 3312C Feedback Control 3
- (PR: EGN 3321, 3373 MAP 2302) 3
- EAS 4200 Flight Structures 3
- (PR: EML 3001, EML 3034) 3

Spring (14 cred hrs, 18 cont hrs)
- EML 3304 Fund of Aerodynamics 3
- (PR: EGN 3701) 3
- EAS 3810C Desgn Aerosp Expr Mths 3
- (PR: EGN 3800C, EML 3701) 3
- EAS 3404C Des Con Aero Veh 3
- (PR: EML 3312C) 3
- EAS 4505 Orbital Mechanics or EML 3701 Fluid Mechanics I 3
- (PR: EGN 3321, MAP 2302) 3
- EAS 4400 Spcrrct Att Dyn or (PR: EML 3312C) 3
- (Fall only) 3
- EAS 3530 Space Sys Concepts 3
- (PR: EAS 3011, PHY 2049, MAP 2302) 3
- *Earth Science 3

FOURTH YEAR

Fall (12 cred hrs, 18 cont hrs)
- EGN 3343 Thermodynamics 3
- (PR: EGN 3343, EML 3034, EML 3601, CR: EAS 4200 or EML 3500) 3
- EAS 4105 Flight Mechanics 3
- (PR: EAS 3101, EML 3312C) 3
- EAS 4134 High-Speed Aerodynamics 3
- (PR: EAS 3101) 3
- EAS 4700C Aerosp Design I or (PR: EAS 3810C) 3
- EGN 4412C Interdisciplinary Design I (PR: EAS 3810C CR: EML 3312C, EAS 3404C) 3

Spring (14 cred hrs, 18 cont hrs)
- EAS 4300 Aerotherm Prop Sys 3
- (PR: EAS 4134 or EML 4703) 3
- EAS 4710C Aerosp Design II (PR: EGN 4412C) 3
- EAS 4710C (PR: EAS 4700C) or EGN 4413C Interdisciplinary Design II 3
- EAS 4401C Technical Electives 3
- *Humanities/History 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. Students should consult with the MMEA Department in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with their faculty advisor frequently to ensure they are making satisfactory progress toward their degree.
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.

4. Aerospace engineering students must earn at least 32 hours in residence at UCF.

IMPORTANT NOTICE

- Bolded course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.
- A number of the bolded courses are given only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.
- Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- Please meet with your advisor if you have any questions regarding your schedule. Do not drop any course before discussing this action with your advisor - there may be alternative actions which will benefit you.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034 ("C" or FORTRAN recommended).
- If you are not ready to begin the calculus sequence upon entry to the 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
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)
   - Communication Foundations 9 hrs
   - Cultural and Historical Foundations 9 hrs

2. Common Program Prerequisites (0 hrs)
   - ANT 2000 General Anthropology 3 hrs
   - ANT 2511 The Human Species 3 hrs
*See Transfer Notes for possible substitutes

3. Core Requirements: Lower Level (6 hrs)
   - ANT 3100 Arch & the Rise of Human Cult 3 hrs
   - ANT 2410 Cultural Anthropology 3 hrs

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

5. Core Requirements: Area Study (3 hrs)
   - All students are required to take one of the following courses:
     - ANT 3163 Mesoamerican Archaeology 3 hrs
     - ANT 3164 The Inca 3 hrs
     - ANT 3168 Maya Archaeology (or ANG 6168) 3 hrs
     - ANT 3311 Indians of the SE US 3 hrs
     - ANT 3313 Indians of N American High Plains 3 hrs
     - ANT 3314 Indians of the Northwest Woodlands 3 hrs
     - ANT 3318 Indians of the Northwest Coast 3 hrs
     - ANT 3319 The Anthropology of Diaspora 3 hrs
     - ANT 3332 Peoples and Culture of Latin America 3 hrs
     - ANT 3340 Caribbean Cultures 3 hrs
     - ANT 3363 Anthropology of Japan 3 hrs
     - ANT 4398 Gender Issues in Latin America 3 hrs
     - ANG 6324 Contemporary Maya 3 hrs

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 3 hrs
   - ANT 3142 Old World Prehistory 3 hrs
   - ANT 3184 Archaeology of Complex Societies 3 hrs
   - ANT 3550 Primatology 3 hrs
   - ANT 3518 Florida Archaeology 3 hrs
   - ANT 4153 North American Archaeology 3 hrs
   - ANT 4180C Seminar in Laboratory Analysis 3 hrs
   - ANT 4824 Advanced Archaeological Field Work 3 hrs
   - ANG 5166 Problems of Maya Archaeology 3 hrs
   - ANG 5167 Maya Hieroglyphs 3 hrs
   - ANG 5228 Maya Iconography 3 hrs
   - ANT 3541 Biobehavioral Anthropology 3 hrs
   - ANT 4521C Forensic Anthropology 3 hrs
   - ANT 4462 Medical Anthropology 3 hrs
   - ANT 4525C Human Osteology 3 hrs
   - ANT 3212 Peoples of the World 3 hrs
   - ANT 3241 Magic, Ritual, and Belief 3 hrs
   - ANT 3245 Native American Religions 3 hrs
   - ANT 3262 Rural Society 3 hrs
   - ANT 3273 Law and Culture 3 hrs
   - ANT 3302 Sex, Gender, and Culture 3 hrs
   - ANT 3701 Applied Anthropology 3 hrs

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.
ART (B.F.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, 823-2676

The BFA degree is recommended for studio art majors who plan to attend graduate school.

Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.

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

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- Grades below “C+” (2.25) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor in their specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
   Take one two-semester sequence 6 hrs
   Select ARH 2050 The History of Art I 3 hrs
C. Mathematical Foundations
   Select MGF 1106 Finite 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
ART 2050 History of Western Art I GEP 3 hrs
ART 2051 History of Western Art II 3 hrs
ART 6500C Intro to Computer Art 3 hrs
ART 2XXX-4XXX any ART prefix, studio, or media courses 3 hrs
*See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)

ART 2820 Art as Interface 3 hrs
ARH 2050 The History of Art I 3 hrs
ART 2XXX-4XXX any ART prefix, studio or media course 3 hrs

4. Restricted Electives (42 hrs)

Specialization:

Select six upper division courses from one area:

- Ceramics (ART 3760C, 4783C)
- Animation (ART 3XXX, 4971, FIL 3286C, 3287C, 4288C*, 4289C*)
- Drawing (ART 3332C, 4320C)
- Drawing/Printmaking Combination (ART 3332C, 3401C, 4320C*, 4402C*)
- Drawing/Illustration Combination (ART 3332C, 3255C, 4320C*, 4256C*)
- Graphic Design (GRA 3100C, 3112C, 2140C, 4195C)
- Painting (ART 3504C, 4505C*)
- Photography (PGY 2401C, 4420C*, 4440C*)
- Sculpture (ART 2701C, ART 4710C*)
*may be repeated for credit

Elective in Art: 15 hrs
- Select five Art courses; two of which may be lower division
- Select from at least three of the following areas, excluding the area of specialization.
- Animation, Ceramics, Drawing, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

Additional Electives 9 hrs
- ARH 3XXX-4XXX Art History Courses or Any upper level Humanities or Social Science course(s)

Animation specialization requires FIL 3410 and any 6 credits of upper level art courses
(A maximum of six hours of Independent Study, Practicum, and Internship are permitted.)

5. Departmental Exit Requirements (3 hrs)

ART 4935 BFA Exhibit/Seminar

ART 5811C The Professional Practice of Art (BFA Exhibit Seminar is only offered during Spring Semester)
- Achieve at least a “B” GPA (3.0) overall in courses within the major
- Each senior is required to submit a portfolio of representative work in the student’s specialization, for review and approval by faculty, during their last semester of matriculation toward the degree.
### Admission Requirements
- **Minimum Hardware and Software Specifications.** Contact the department for specific requirements.
- **Continual Access to a Laptop Computer.**
- **Note:** Although the department maintains a small computer lab for students, a laptop is required.

### University Minimum Exit Requirements
- **A 2.0 UCF GPA.**
- **60 Semester Hours Earned After CLEP Awarded.**
- **48 Semester Hours of Upper Division Credit Completed.**
- **30 of the Last 36 Hours of Course Work Must Be Completed in Residence at UCF.**
- **A Maximum of 45 Hours of Extension, Correspondence, CLEP, Credit by Exam, and Armed Forces Credits Permitted.**
- **Complete the General Education Program, the Gordon Rule, the CLAST and Nine Hours of Summer Credit (if applicable).**

### Total Semester Hours Required: 120 hours

#### Related Programs:
- Art History, Studio Art (BA), Art Education, Animation, Digital Media

#### Related Minors:
- Partners in Visual Art Education

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

### Acceptable Substitutes for Common Program Prerequisites if Taken Prior to Transferring to UCF:
- **ART 2203C**: A student may substitute ART 2202C.
- **ART 2600C**: A student may substitute any three-hour media course; however, ART 2600C is a prerequisite for subsequent art courses and will need to be taken for the major.

### UCF Degree Programs

#### 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 laptop 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 2.0 (C) 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**
- **B. Cultural and Historical Foundations**
- **C. Mathematical Foundations**
- **D. Social Foundations**
- **E. Science Foundations**

#### 2. Common Program Prerequisites (21 hrs)
- **ART 2201C** Design Fundamentals 2-D
- **ART 2203C** Design Fundamentals 3-D
- **ART 2300C** Drawing Fundamentals I
- **ART 2301C** Drawing Fundamentals II
- **ARH 2050** The History of Art I
- **ARH 2051** The History of Art II
- **ART 3600C** Intro to Computer Art
- **ART 2600C, 4XXX any ART prefix, studio, or media courses**

**Transfer Notes:**
- *See Transfer Notes for possible substitutes*

#### 3. Core Requirements (12 hrs)
- **ART 2820** Art as Interface
- **ARH 2005** Survey of Non-Western Art
- **Any two upper level Art or Film History course**

#### 4. Animation Upper Division Courses (18 hrs)
- **ART 3643C** Digital Effects and Compositing
- **FIL 3286C** Introduction to Animation
- **FIL 3287C** Intermediate Animation
- **FIL 3410** History of Animated Films
- **FIL 4288C** Advanced Animation
- **FIL 4289C** Animation Workshop

**Workshops may be repeated**

#### 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, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

#### 6. Departmental Exit Requirements
- **ART 4971** Thesis
- **Achieve at least a “B” GPA (3.00) in courses within the major.**
- **Computer Competency met by CGS 1060C or ART 2600C**

#### 7. Foreign Language Requirements (0-8 hrs)
- **Admission:** By graduation requirement
- **Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

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

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**Note:** Unfortunately, individual reviews are not possible due to the large number of applicants to this program.
ART 2600C*: A student may substitute any three hour media course taken at community colleges for any three hour upper division course with the approval of the department.

ART 2203C*: A student may substitute ART 2202C for common program prerequisites if taken prior to transferring to UCF.

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
- ART 2600C*: A student may substitute any three hour media course; however, ART 2600C is a prerequisite for subsequent art courses and will need to be taken for the major

ART - HISTORY 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

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- 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.

Transfer Notes:
- Achieve at least a "C" GPA (2.0) in courses within the major.
- Computer Competency: met by STA 100C, ART 2600C, or ARH 507.

5. Departmental Exit Requirements (4 hrs)
- ARH 4912 Senior Thesis 3 hrs
- ARH 4906 Comprehensive Exam 1 hr

6. Foreign Language Requirements (0-14 hrs)

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

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

Total Semester Hours Required 120 hours

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

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

ART - STUDIO TRACK (B.A.)

College of Arts and Sciences
Art Department VAB 117, 407-823-2676
http://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. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department as an Art History/Digital Studio Application track.
- A second portfolio is required for the Graphics Design Specialization. Deadline for application is April 1st prior to beginning the Fall of the Junior year.

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.

5. Departmental Exit Requirements
- ARH 4912 Senior Thesis 3 hrs
- ARH 4906 Comprehensive Exam 1 hr

6. Foreign Language Requirements (0-14 hrs)

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

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

Total Semester Hours Required 120 hours

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

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

ART - STUDIO TRACK (B.A.)

College of Arts and Sciences
Art Department VAB 117, 407-823-2676
http://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. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department as an Art History/Digital Studio Application track.
- A second portfolio is required for the Graphics Design Specialization. Deadline for application is April 1st prior to beginning the Fall of the Junior year.

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.
**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 *(9 hrs)*
     - Select ARH 2050 The History of Art I *(3 hrs)*
   - C. Mathematical Foundations *(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 Art I *(3 hrs)*
   - ART 2600C* Intro to Computer Art *(3 hrs)*
   - ART 2XXX-4XXX any ART prefix, studio or media course *(3 hrs)*
   - *See Transfer Notes for possible substitutes

3. **Core** *(6 hrs)*
   - ART 2205 Art As Interface *(3 hrs)*
   - ARH 2005 Survey of Non-Western Art *(3 hrs)*

4. **Restricted Electives** *(27 hrs)*
   - Specialization: Select nine upper division courses from at least three areas:
     - Ceramics (ART 3760C, 4783C*)
     - Drawing and Printmaking (ART 3332C, 3401C, 4320C*, 4402C*)
     - Painting (ART 3504C, 4505C*)
     - Photography (PSY 2401C, 4402C*, 4404C*)
     - Sculpture (ART 2701C, 4710C*)
     - Type & Design (GRA 311C)
     - Illustration (ART 3255C, 4256C*)
     - ARH History (ART 3XXX, 4XXX)*
   - *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 ART 2600C.

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.

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

8. **University Minimum Exit Requirements**
   - A 2.0 UCF GPA.
   - 60 semester hours earned after CLEP awarded.
   - 48 semester hours of upper division credit completed.
   - 30 of the last 36 hours of course work must be completed in residence at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

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

**Total Semester Hours Required** **120 hours**

**Related Programs:** Art History, Studio Art (BFA), Art Education, Animation, Digital Media

**Related Minors:** Partners in Visual Art Education, Digital Media

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

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:
- ART 2203C: may substitute 3 hours of ART 2202.
- ART 2600C: may substitute 3 hours of any media course.

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**ART EDUCATION (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles, ED 209**

**http://pegasus.cc.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 four parts of the CLAST examination (no alternative 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)*
   - ART 2201C Design Fundamentals 2-D *(3 hrs)*
   - ART 2301C Drawing Fundamentals II *(3 hrs)*
   - ARH 2050 The History of Art I *(3 hrs)*
   - ART 2600C* Intro to Computer Art *(3 hrs)*
   - *See Transfer Notes for possible substitutes

2. **Common Program Prerequisites** *(43 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)*
   - C. Mathematical Foundations *(6 hrs)*
   - MGF 1106 Finite Mathematics *(3 hrs)*
   - Select one: *(3 hrs)*
   - STA 1060C Basic Statistics using MS Excel or STA 2023C Principles of Statistics
   - D. Social Foundations *(6 hrs)*
   - POS 2041 American National Government *(3 hrs)*
   - E. Science Foundations *(6 hrs)*
   - SPC 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.

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**Total Semester Hours Required** **120 hours**

**Related Programs:** Art History, Studio Art (BFA), Art Education, Animation, Digital Media

**Related Minors:** Partners in Visual Art Education, Digital Media

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

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:
- ART 2203C: may substitute 3 hours of ART 2202.
- ART 2600C: may substitute 3 hours of any media course.

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**ART EDUCATION (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles, ED 209**

**http://pegasus.cc.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 four parts of the CLAST examination (no alternative 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)*
   - ART 2201C Design Fundamentals 2-D *(3 hrs)*
   - ART 2301C Drawing Fundamentals II *(3 hrs)*
   - ARH 2050 The History of Art I *(3 hrs)*
   - ART 2600C* Intro to Computer Art *(3 hrs)*
   - *See Transfer Notes for possible substitutes

2. **Common Program Prerequisites** *(43 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)*
   - C. Mathematical Foundations *(6 hrs)*
   - MGF 1106 Finite Mathematics *(3 hrs)*
   - Select one: *(3 hrs)*
   - STA 1060C Basic Statistics using MS Excel or STA 2023C Principles of Statistics
   - D. Social Foundations *(6 hrs)*
   - POS 2041 American National Government *(3 hrs)*
   - E. Science Foundations *(6 hrs)*
   - SPC 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.
AMH 2010 U.S. History 1492-1877  GEP
AMH 2020 U.S. History 1877-Present  GEP
POS 2041 American National Government  GEP
PSY 2312 General Psychology  GEP

E. Science (9 hrs + lab)
PSC 1121 Physical Science  GEP
One of the following [per GEP]  GEP
ANT 2921The 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
BSC1005L Biological Principles Laboratory or
GEO 1200L Physical Geography Laboratory or
PSC 1121L Physical Science Laboratory

F. Education Courses (9 hrs)
EDF 2005 Introduction to Education  3 hrs
EDG 2701 Teaching Diverse Populations  3 hrs
EME 2040 Technology for Educators  3 hrs

G. Diversity Courses  GEP
H. Other Program Prerequisites (24 hrs)
*ART 2201C Designs Fundamentals I  3 hrs
*ART 2203C Designs Fundamentals II  3 hrs
*ART 2300C Drawing Fundamentals I  3 hrs
*ART 2301C Drawing Fundamentals II  3 hrs
*ART 2500C Painting  3 hrs
*Prerequisites for all 3000 and 4000 level ARE and ART courses.

3. Education Core Requirements (15 hrs)
EDG 4323 Professional Teaching Practices  3 hrs
EDF 4214 Classroom Learning Principles  3 hrs
EDG 4358 Theory and Practice of Teaching ESOL  3 hrs
Select one:  3 hrs

4. Internship I (ESE 3940) (3 hrs)
■ At least 50% of all required art courses must be completed before registering for Internship I
■ See additional requirements listed under College of Education, Office of Clinical Experiences

5. Core Requirements (9 hrs)
ARE 4356 Teaching Art Appreciation & Criticism  3 hrs
ARE 4351 Teaching Art in the Elementary School  3 hrs
ARE 4352 Teaching Art in the Secondary School  3 hrs

6. Restricted Electives (9 hrs)
Any 3000 or 4000 level ART, ARE, ARH, PGY (with advisor’s approval)

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

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.

10. University Minimum Exit Requirements
■ Pass all applicable sections of the Florida Teacher Certification Examination.

11. Total Semester Hours Required 127 hrs

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. Logiudice, 407-823-2141

Admission Requirements
none

Degree Requirements
■ Students who change degree programs and select this major must adopt the most current catalog.
■ No credit by exam (TSD, Military credit) may be used for the major.
■ Co-op or internship credit cannot be used in this major.
■ No more than 4 hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
■ Departmental Residency Requirement consists of at least 22 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
■ Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization of the two majors.
■ Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.
■ A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program (36 hrs)
(Note: Certain course selections must be made in the GEP for this major. These are indicated in italics. These required selections may bring the total GEP hours to more than 36.)
A. Communication Foundations  9 hrs
B. Cultural and Historical Foundations  9 hrs
C. Mathematical Foundations
Select MAC 2311 Calculus or
MAC 2241 Calculus for Life Sciences  4 hrs
Select STA 2023 Statistical Methods I  3 hrs
D. Social Foundations  6 hrs
E. Science Foundations
Select PHY 2053C College Physics (PR:MAC 1105 and MAC 1114)  4 hrs
Select BSC 2010C General Biology  4 hrs

2. Common Program Prerequisites (31 hrs)
BSC 2010C* General Biology  4 hrs
BSC 2011C* Biological Diversity  4 hrs
MAC 2311* Calculus w/ Anal Geometry I  4 hrs
STA 2023* Statistical Methods I  3 hrs
CHM 2045C Chem Fund I  4 hrs
CHM 2046 L & Chem. Fund II & lab  4 hrs
Select one:  8 hrs
PHY 2052C 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)

- PCB 3023 Molecular Cell Biology 3 hrs
- PCB 3063 Genetics 3 hrs
- CHM 3120C Analytical Chemistry 5 hrs
- CHM 2211 & L Organic Chem. II & lab 5 hrs
- CHM 2205 Intro Organic & Biochemistry 5 hrs
- PCB 3034 Ecology 3 hrs
- PCB 3063 Genetics 3 hrs
- PCB 3023 Molecular Cell Biology 3 hrs
- PCB 3083 Population Bio & 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 groups listed below.
- Student must complete at least one course dealing exclusively with animals (marked a) and one course dealing exclusively with plants (marked b).
- At least three credit hours from each group must be completed.
- No more than 12 hours of the upper division restricted electives may be taken outside the Biology Department.
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- Courses at the 5000 level are only open to seniors and beginning graduate students.

Form/Function (minimum of one lecture course)

- BCH 4053: Biochemistry I 3 hrs
- BCH 4054: Biochemistry II 3 hrs
- Bot 422C: Plant Anatomy 4 hrs
- Bot 4203C: Plant Kingdom 5 hrs
- Bot 4503: Plant Physiology 4 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
- b PCB 4683L: Population Bio and Evolution Lab 1 hr
- a PCB 5256C: Adv Develop Biology 4 hrs
- b PCB 5556C: Conser. Genetics 4 hrs
- b PCB 5665C: Human Genetics 4 hrs
- a ZOO 3713C: Comparative Vert Anatomy 5 hrs
- a ZOO 4603C: Embryology/Development 5 hrs
- a ZOO 4753C: Vertebrate Histology 4 hrs

Environmental (minimum of one lecture course)

- Bot 3152C: Local Flora 3 hrs
- Bot 3800: Ethnobotany 3 hrs
- Bot 4156C: Florida Wildflowers 4 hrs
- Bot 4696C: Conservation of Native Plants 4 hrs
- Bot 5420C: Plant Geomorphology & Ecology 4 hrs
- BSC 4312C: Marine Biology 4 hrs
- PCB 3034L: Ecology Laboratory 1 hr
- PCB 3442: Florida Aquatic Ecology 3 hrs
- PCB 4022C: Physicochemical Limnology 4 hrs
- PCB 4303C: Biological Limnology 4 hrs
- PCB 5045C: Conservation Biology 4 hrs
- PCB 5328C: Landscape Ecology 4 hrs
- PCB 5329C: Ecosystems of Florida 5 hrs
- PCB 5485: Models in Ecology 3 hrs
- PCB 5520: Behavioral Ecology 3 hrs
- ZOO 4513: Animal Behavior 3 hrs
- a ZOO 4515: Zoogeography 3 hrs
- a ZOO 5881C: Fisheries Management 4 hrs
- a ZOO 5893L: Repro Mgt Zool Env 1 hr

Systematic (minimum of one lecture course)

- Bot 4713C: Plant Taxonomy 3 hrs
- Bot 5485C: Terrestrial Cryptogams 3 hrs
- a Eny 4504C: General Entomology 4 hrs
- MCB 3020C: General Microbiology 5 hrs
- PCB 3301C: Aquatic Biology 4 hrs
- a ZOO 4205C: Bio & Ecol of Metazoan Inverts 4 hrs
- a ZOO 4310C: Vertebrate Evolution & Ecol 4 hrs
- a ZOO 5456C: Ichthyology 4 hrs
- a ZOO 5463C: Herpetology 4 hrs
- a ZOO 5475C: Ornithology 4 hrs
- a ZOO 5486C: Mammalogy 4 hrs

Additional courses (e.g., 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 maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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 by a departmental advisor, in order to count as an Upper Division Restrictive.

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 210, PCB 211B, PCB 212, PCB 2131, BSC 1040, or BSC 212
- BSC 2011C & Lab: may use ZOO 210, BOT 210, BSC 2411, or BOT 1013. However, subsequent Biology courses require either BSC 211C or both ZOO 210 and BOT 2010.
- STA 2023: may use STA 2122, STA 2142, STA 2323, STA 2924, 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.

BIOLGY - 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. Loguidice, 407-823-2141

Students who hope to gain admission to a professional school (med-
ical, dental, optometry, etc.) can meet the admission requirements while pursuing a Biology degree. The following track lists courses that will meet both sets of requirements.

**Admission Requirements** none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- **Notice:** Professional schools do not accept AP or IB credit.
- Co-op or internship credit cannot be used in the major.
- No more than four hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 23 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements 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 have previously obtained a degree in any Life Science program.

### 1. UCF General Education Program (39 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td></td>
</tr>
<tr>
<td>Select MAC 2311 Calculus or</td>
<td></td>
</tr>
<tr>
<td>MAC 2241 Calculus for Life Sciences</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Select STA 2023 Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td></td>
</tr>
<tr>
<td>Prefer PSY 2012 General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Prefer ECO 2013 Macroeconomics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td></td>
</tr>
<tr>
<td>Prefer PHY 2048 &amp; L College Physics &amp; lab</td>
<td>4 hrs</td>
</tr>
<tr>
<td>(PR/MAC 2311)</td>
<td></td>
</tr>
<tr>
<td>Select BSC 2010C General Biology</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 2. Common Program Prerequisites (16 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C* General Biology</td>
<td>GEP</td>
</tr>
<tr>
<td>BSC 2011C* Biological Diversity</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2311* Calculus w/ Analytic Geometry</td>
<td>GEP</td>
</tr>
<tr>
<td>STA 2023* Statistical Methods I</td>
<td>GEP</td>
</tr>
<tr>
<td>CHM 2045* Chem Fund I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2046 &amp; L Chem. Fund II &amp; lab</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PHY 2048* &amp; L Physics for Engr. &amp; Sci. I &amp; Lab</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 2049* &amp; L Physics for Engr. &amp; Sci. II &amp; Lab</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

*See Transfer Notes for possible substitutes

### 3. Additional Core requirements (21 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3034</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 3063</td>
<td>Genetics</td>
</tr>
<tr>
<td>CHM 2210</td>
<td>Organic Chem. I</td>
</tr>
<tr>
<td>CHM 2211 &amp; L Organic Chem. II &amp; lab</td>
<td>5 hrs</td>
</tr>
<tr>
<td>PCB 3023</td>
<td>Molecular Cell Biology</td>
</tr>
<tr>
<td>PCB 4683</td>
<td>Population Biology &amp; Evolution</td>
</tr>
</tbody>
</table>

### 4. Restricted Electives (Suggested) (22 hrs)

The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school’s requirements.

**Form/Function**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 4053</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>PCB 3063L</td>
<td>Genetics Lab</td>
</tr>
<tr>
<td>PCB 4524</td>
<td>Molecular Biology II</td>
</tr>
<tr>
<td>PCB 3233</td>
<td>Immunology</td>
</tr>
<tr>
<td>PCB 3565C</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>a PCB 4723</td>
<td>Animal Physiology</td>
</tr>
<tr>
<td>a ZOO 3713C</td>
<td>Comparative Vert Anatomy</td>
</tr>
<tr>
<td>a ZOO 4603C</td>
<td>Embryology/Development</td>
</tr>
<tr>
<td>a ZOO 4753C</td>
<td>Vertebrate Histology</td>
</tr>
<tr>
<td>b BOT 3000</td>
<td>Ethnobotany</td>
</tr>
</tbody>
</table>

**Systematic**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 3020C</td>
<td>General Microbiology</td>
</tr>
<tr>
<td>a ZOO 4205C</td>
<td>Bio &amp; Ecol of MetaZoa Inverts</td>
</tr>
<tr>
<td>a ZOO 4310C</td>
<td>Vertebrate Evolution &amp; Ecol</td>
</tr>
</tbody>
</table>

### 5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to
  1) check and maintain their campus electronic mail account and
  2) be capable of locating, viewing, and retrieving documents on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors may not take any courses required in the major as a transient student at a community college.

### 6. Foreign Language Requirement (0-8 hrs)

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

**Graduation:**

none

(Spanish highly recommended)

### 7. Electives (variable)

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

### 8. University Minimum Exit Requirements

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

**Total Semester Hours Required** 120 hours

**Related Programs:** Biology, Chemistry, Molecular/Microbiology

**Related Minors:** none

**Transfer Notes:**

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

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

- BSC 2010C & Lab: may use PCB 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 2014C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282. However, statistics at or above the level of STA 2023 is required in the major and still must be taken.
- MAC 2311: may use MAC 2233, MAC 2253 or MAC 2281
- PHY 2048 & 2049: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.
UCF Degree Programs

CARDIOPULMONARY SCIENCES (B.S.)
College of Health and Public Affairs
HPA 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

Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program.

■ Separate Application to the limited access program must be made directly to the program prior to February 1 of the year admission is sought.
■ UCF application must also be submitted by the program deadline of February 1st. Acceptance to UCF is necessary before acceptance to the program can occur.
■ This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
■ A personal interview is also required.
■ Student must complete all general education, foreign language admissions, and program prerequisites by the end of Spring Semester before starting program.
■ All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of “C”.
■ A one-page statement of intent for entry into the profession must be included with the program application.
■ Applicants are required to have completed a basic life support (CPR) program prior to admission to the program.
■ The limited access program 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 the area clinical affiliates’ need to guarantee the safety of hospitalized patients.
■ The practice of respiratory care as a student can be a physically challenging experience. The student 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 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. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of the articulation activity.

Note: 16 community college AA degree transfers and/or UCF undergraduates are admitted each Fall semester for the regular Cardiopulmonary Science program. Registered Respiratory Therapists (RRT’s) are admitted each semester on a space available basis and have a separate application process.

Degree Requirements

■ Students who change degree programs and select this major must adopt the most current catalog.
■ Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System.
■ Student should consult with a departmental advisor.
■ The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
■ A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Cardiopulmonary Sciences Program.
■ UCF Residency Requirement: 32 hours.
■ 25% of course work must be completed in residency at UCF

The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

   A. Communication Foundations
   9 hrs
   B. Cultural Historical Foundations
   9 hrs
   C. Mathematical Foundations
   6 hrs
   Select MAC 1105
   Select STA 2033
   D. Social Foundations
   6 hrs
   E. Science Foundations
   6 hrs

Select BSC 2010C
Select CHM 1032L and lab

2. Common Program Prerequisites (16 hrs)

MAC 1105 College Algebra GEP
STA 2033 Statistical Methods I GEP
BSC 2010C General Biology GEP
MCB 2005C Microbiology 4 hrs
ZOO 3733C Human Anatomy* 4 hrs
PCB 3703C Human Physiology* 4 hrs
CHM 1032L Chemistry for Health Sciences or higher level (with lab) 4 hrs

Select PHY 2053C College Physics or higher level (with lab)
* see transfer notes

3. Core Requirements (75 hrs)

   RET 3026C Intro. to Respiratory Care 4 hrs
   RET 3484C Cardiopulmonary Physiology 4 hrs
   HSC 4550 Pathophysiology Mechanisms 3 hrs
   APB 4651 Medical Pharmacology I 2 hrs
   HSC 2559C HIV Disease: A Human Concern 3 hrs
   RET 4503 Chest Medicine 3 hrs
   RET 4244 Life Support Systems 3 hrs
   RET 3483C Respiratory Clinical Assessment 3 hrs
   RET 3264C Mechanical Ventilation 3 hrs
   APB 4652 Medical Pharmacology II 2 hrs
   HSC 4500 Epidemiology 3 hrs
   RET 4141C Pulmonary Function Studies 4 hrs
   RET 3174 Pediatric Respiratory Care 3 hrs
   RET 3874 Clinical Practice I 5 hrs
   RET 4284 Cardiopulmonary Diagnostics I 3 hrs
   RET 4715 Neonatal Medicine 3 hrs
   RET 4034 Problems in Patient Management. 3 hrs
   RET 3875 Clinical Practice II 6 hrs
   RET 4285 Cardiopulmonary Diagnostics II 3 hrs
   RET 4934 Selected Topics in Respiratory Care 2 hrs
   RET 4676 Clinical Practice III 8 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (127 hrs)

   Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

   Approval: 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
   B. 60 semester hours earned after CLEP awarded
   C. 48 semester hours of upper division credit completed
   D. 32 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 127 hrs

Related Programs: Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate

Related Minors: Health Services Administration, Health Sciences,
Molecular Biology & Microbiology, Biology, Chemistry

Transfer Notes:
Registered Respiratory Therapist / RRT Transfer-Credit by Examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardio-pulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This knowledge may be demonstrated by successful completion of the two part registry examination given by the National Board for Respiratory Care (NBRC). Only graduates of an accredited institution and program are eligible for the NBRC credential. 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.

Students who transfer in with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirement.

Community College Equivalents

College Algebra (MAC 1105) or (higher level) 3 hrs
Statistics (STA 2023) or (higher level) 3 hrs
College Physics I (PHY 1007/L) or (PHY 3004/L) or (PHY 2048/L) or (PHY 3004) 3 hrs
or higher level with labs 4 hrs
General Chemistry with Lab (CHM 1003/L) or (higher level) 4 hrs
General Biology with Lab (BSC 1005/L) or (higher level) 4 hrs
General Microbiology (MCB 2010C) or (MCB 2005) or (MCB 2020L) or (PHA 2751) 4 hrs
Human Anatomy and Physiology I & II (BSC 2093C and 2094C) or (BSC X085 and X086) replaces Anatomy and Physiology courses (ZOO 3733C and PCB 3703C) 8 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall 16
ENC 1101 3
CHM 1092 and lab 15
or BSC 2010C 4
PSY 2012 or ANT 2000 or SYG 2000 3
or AHM 2010 3
or MAC 1114 3

Spring 13
ENC 1102 3
MAC 1105 3
or higher level 4 hrs

Sophomore Year

Fall 14
PHY 2053C 4
ZOO 3733C 4
or SPC 1600 3
EUH 2001 or HUM 2211 3
or AHM 2020 or AMH 2020 3
or ARH 2050 3
or ARH 2050 3
or ARH 2051, MUL 2010, THE1020, REL 2300, PHI 2010, LIT 2110, LIT 2120 3

Spring 13
PCB 3703C 4
or SPC 1600 3
ECO 2013 or POS 2041 3
One course: ARH 2050 3

Junior Year

Fall 16
RET 5026C 4
RET 3484C 4
HSC 4550 3
APB 4651 3
or HSC 3950C 3
or APB 4652 3
or RET 3485C 3

Spring 14
RET 6503 3
or RET 4244 3
RET 3114 3
or APB 4652 3
or APB 4653 3
or HSC 2100 3

Summer 12
RET 4414C 4
or RET 5264C 3
or RET 3874 3

Senior Year

Fall 17
RET 4284 3
RET 3875 8
RET 4715 3
RET 4036 3

Spring 16
RET 4285 3
RET 4876 8
RET 4934 3
HSC 4500 3

Minor

Accreditation

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

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

CHEMISTRY (B.S.)

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

Admission Requirements

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Co-op or internship credit cannot be used in the major.

Students should consult with a departmental advisor.

Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.

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

1. UCF General Education Program (39 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MAC 2311 Calculus 4 hrs
   Prefer STA 2023 Statistical Methods I 3 hrs
   GEP
D. Social Foundations 6 hrs
E. Science Foundations
   Select PHY 2048 & L* Physics for Sci & Engr (PR-MAC 2311) 4 hrs
   Select BSC 2010C General Biology 4 hrs

2. Common Program Prerequisites (22 hrs)

CHM 2211L Organic Chem I 3 hrs
CHM 2212L Organic Chem II 3 hrs
MAC 2311* Calculus w/ Anal Geometry I 3 hrs
MAC 2312* Calculus w/ Anal Geometry II 3 hrs
PHY 2048 & L* Physics Engr. & Sci. I & Lab GEP
PHY 2049 & L* Physics Engr. & Sci. II & Lab 4 hrs

*See Transfer Notes for possible substitutes

3. Core requirements (39 hrs)

MAC 2313* Calculus w/ Anal Geometry III 4 hrs
CHM 2211L Organic Lab Techniques I 2 hrs
CHM 3212L Organic Lab Techniques II 2 hrs
CHM 3120C Analytical Chemistry 5 hrs
CHM 3410 Physical Chemistry I 4 hrs
CHM 3411 Physical Chemistry II 3 hrs
CHM 3411L Physical Chemistry Lab 2 hrs
CHM 4610 Inorganic Chemistry 3 hrs
CHM 4610L Inorganic Chemistry Lab 2 hrs
CHM 4130C Adv Analytical Lab Technique 4 hrs
CHM 4914C Undergraduate Research Methods 1 hrs
CHM 4912 Undergraduate Research 3 hrs
CHM 4930 Chemistry Seminar 1 hrs
BCH 4053 Biochemistry I 3 hrs
BSC 2010C General Biology GEP

Select one of the following

CGS 1060C Intro to Computer Science

1. UCF General Education Program (39 hrs)
2. Common Program Prerequisites (22 hrs)
3. Core requirements (39 hrs)

4. Upper Division Restricted Electives (5 hrs)

BCH 4054 Biochemistry II 3 hrs
CHM 5225 Advanced Organic Chem I 3 hrs
CHM 5235 Applied Molec Spectroscopy 3 hrs
CHM 5580 Advanced Physical Chem 3 hrs
CHM 5450 Polymer Chemistry 3 hrs
CHM 5451C Techniques in Polymer Chemistry 3 hrs
CHS 4200 Concepts in Industrial Chem 3 hrs
CHM 4914C Undergraduate Research Methods 1 hrs

5. Directed Elective (3 hrs)

Course will be selected with the aid of a departmental advisor and approved in advance by the department chair. Course will be selected from the physical, biological, mathematical sciences and/or related disciplines and normally will be at the 3000/4000 level. Co-op courses cannot be used in the major.

UCF Degree Programs
CIVIL ENGINEERING (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

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 3023 (3 hrs)
Note: Calculus II is the prerequisite for this course.

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

E. Science Foundations (7 hrs)
1. Take PHY 2048/48L
2. Take one course from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050). Earth Science is preferred.

2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. 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/5L Chemistry Fundamentals I with Lab 4 hrs
MAC 2311 Calculus with Analytic Geometry I 4 hrs
MAC 2312 Calculus with Analytic Geometry II 4 hrs
MAC 2313 Calculus with Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP
PHY 2049/49L 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 Major (62 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below.

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

EGN 1000C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2046 Chemistry Fundamentals II 3 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
Egn 3321 Engineering Analysis - Dynamics 3 hrs
Egn 3331 Mechanics of Materials 3 hrs
Egn 3343 Thermodynamics 3 hrs
Egn 3365 Structure & Properties of Materials 3 hrs
Egn 3373 Principles of Electrical Engr 3 hrs
Egn 3613 Engineering Economic Analysis 2 hrs
Cce 4003 Intro to the Construction Industry 3 hrs
Env 3001 4 Probability & Statistics for Engineers GEP
Sta 3032 Probability & Statistics for Engineers GEP
Ceg 4101C Geotechnical Engineering I 4 hrs
Ces 4100C Structural Analysis I 4 hrs
Ces 4605 Steel Structures or
Ces 4702 Reinforced Concrete Structures 3 hrs
Cwr 3201 Engineering Fluid Mechanics 3 hrs
Cwr 4101C Hydrology 3 hrs
Cwr 4203C Hydrology 3 hrs
Env 4561 Environmental Engng-Process Design 4 hrs
Sur 2101C Surveying 3 hrs
Tte 4004 Transportation Engineering 4 hrs

4. Approved Technical Electives (3 hrs)
Technical electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
- Approved CE Project Design Course I 3 hrs
- Approved CE Project Design Course II 3 hrs
- Civil engineering students must take the Fundamentals Exam during their senior year.
- Earn a minimum graduating GPA of 2.25 in the major courses 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

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 Semester
- ENC 1101 English Comp I 3 hrs
- MAC 2311 Calc w/Analy Geo I 4 hrs

Spring Semester
- ENC 1102 English Comp II 3 hrs
- MAC 2312 Calc w/Analy Geo II 4 hrs

Second Year

Fall Semester
- ECO 2013 Macroeconomics or
- ECO 2023 Microeconomics
- EGN 1006C Intro To Eng Prof 1
- EGN 3321 Eng Anal-Dyn 3
- EGN 3331 Mechanics of Materials 3
- EGN 3343 Thermodynamics 3
- EGN 3365 Struct & Proper of Materials 3
- EGN 3373 Principles of Electrical Eng 3
- CCE 4100C Structural Analysis I 4 hrs
- CES 4605 Steel Structures 3 hrs
- CES 4702 Reinforced Concrete Structures 3 hrs
- CWR 3201 Eng Fluid Mechanics 3 hrs
- CWR 4101C Hydrology 3 hrs
- CWR 4203C Hydrology 3 hrs
- Env 4561 Environmental Engrng-Process Design 4 hrs
- Sur 2101C Surveying 3 hrs
- TTE 4004 Transportation Engr 4 hrs

Spring Semester
- EGN 3301 Intro to Environmental Engineering 3 hrs
- CCE 4003 Intro to Const Indus 3 hrs
- CES 4100C Structural Analysis I 4 hrs
- STA 3032 Prob/Stats for Engrs 3 hrs
- TTE 4004 Transportation Eng 4 hrs

Third Year

Fall Semester
- EGN 3321 Eng Anal-Dyn 3
- EGN 3331 Mechanics of Materials 3
- EGN 3343 Thermodynamics 3
- CES 4100C Structural Analysis I 4 hrs
- STA 3032 Prob/Stats for Engrs 3 hrs
- TTE 4004 Transportation Eng 4 hrs

Spring Semester
- Env 4561 Env Proc Design 4 hrs
- CEG 4101C Geotechnical Engineering 4 hrs
- CES 4605 Structural Materials 3 hrs
- CES 4702 Reinforced Concrete Structures 3 hrs
- STA 3032 Prob/Stats for Engrs 3 hrs
- TTE 4004 Transportation Eng 4 hrs

Fourth Year

Fall Semester
- Env 4561 Env Proc Design 4 hrs
- CEG 4101C Geotechnical Engineering 4 hrs
- CES 4605 Structural Materials 3 hrs
- CES 4702 Reinforced Concrete Structures 3 hrs
- STA 3032 Prob/Stats for Engrs 3 hrs
- TTE 4004 Transportation Eng 4 hrs

Spring Semester
- Env 4561 Env Proc Design 4 hrs
- CEG 4101C Geotechnical Engineering 4 hrs
- CES 4605 Structural Materials 3 hrs
- CES 4702 Reinforced Concrete Structures 3 hrs
- STA 3032 Prob/Stats for Engrs 3 hrs
- TTE 4004 Transportation Eng 4 hrs

Notes:
- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the UCF General Education Program elsewhere in this catalog for further information.
- 2. Either CES 4605 Structural Materials 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
Carol Ann Pohl, E-mail: cpohl@mail.ucf.edu
Coordinator: 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 Engineering Students

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

A. Communication Foundations
- 9 hrs
- 1. Take ENC 1101
- 2. Take ENC 1102
- 3. Prefer SPC 1016

B. Cultural and Historical Foundations
- 9 hrs
- 1. Take MAC 2311, Calc I, w/Analytic Geometry I, (4 hrs)

C. Mathematical Foundations
- (7 hrs)
UCF Degree Programs

Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

2. Take STA 3023 (3 hrs)

Note: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs

1. Take ECO 2013 or ECO 2023.

E. Science Foundations 7 hrs

1. Take PHY 2048/48L.
2. Take one course from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050). Earth Science preferred.

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L Chemistry Fundamentals I with Lab 4 hrs
MAC 2311 Calculus w/Analytic Geometry I GEP
MAC 2312 Calculus w/Analytic Geometry II 4 hrs
MAC 2313 Calculus w/Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
Humanities Courses GEP
Social Science Courses GEP
Humanities or Social Sciences GEP

3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below.

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

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2046 Chemistry Fundamentals II 3 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3331 Mechanics of Materials 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
Env 3001 Intro to Environmental Engineering 3 hrs
STA 3022 Probability & Statistics for Engineers GEP
CCE 4003 Mech & Elec Systems for Buildings 4 hrs
CCE 4402 Construction Equip & Productivity 3 hrs
CCE 4XXX Construc Materials or 3 hrs
EGN 3365 Struc & Prop of Materials 3 hrs
CCE 4004 Constr Methods 3 hrs
CCE 4034 Construction Estimating & Scheduling 3 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
EGN 4101C Geotechnical Engineering 4 hrs
CCE 4100C Structural Analysis I 4 hrs
CCE 4702 Reinforced Concrete Structures 3 hrs
CWR 3201 Engineering Fluid Mechanics 3 hrs
ACG 2071 Managerial Accounting 3 hrs
SUR 2101C Surveying 3 hrs
TTE 4004 Transportation Engineering 4 hrs

4. Approved Engineering Science Electives (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.

5. Departmental Graduation Requirements (6 hrs)

- CCE 4810C Construction Engr. Design Project 3 hrs
- CEG 4801C Geotechnical Engr. Design 3 hrs

Civil engineering students must take the Fundamentals Exam during their Senior year.

Earn a graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved CE project design courses.

6. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

7. University Minimum Graduation Requirements

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

Total Semester Hours Required: 128 hrs

Related Programs: Environmental Engineering

Related Minors: Mathematics

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

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

Civil Engineering - Construction Engineering Option 128 semester hours required

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¹A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
²A 2.0 UCF GPA.
³60 semester hours earned after any CLEP award.
⁴48 semester hours of upper division credit completed.
⁵30 of the last 36 hours of course work must be completed in residence at UCF.
⁶25% of course work must be completed in residency at UCF.
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.

COMMUNICATIVE DISORDERS (B.A., B.S.)
College of Health and Public Affairs, HPA2 101
http://www.co.hp.ucf.edu/comdis/
Chair: R. Jane Lieberman, Phone: 407-823-4798
Undergraduate Coordinator: Jamie B. Schwartz
E-mail: schwartz@mail.ucf.edu
Phone: 407-823-4798

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 must attend an orientation and consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and usually should be completed in the first 60 hours
- Students must earn at least a “C-” (1.75) in each required course and restricted elective
- The courses designated in section 1 (General Education) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundation 6 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites
none

3. Core Requirements (57 hrs)
DEP 2004 Developmental Psychology 3 hrs
SPA 3002 Introduction to Communicative Disorders 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 5 yrs 3 hrs
SPA 3011 Speech Science I: Speech Production 3 hrs
SPA 3011L Speech Production Lab 1 hr
LIN 3717 Language Development: 9 through 18 yrs 3 hrs
SPA 3104 Neural Bases of Communication 3 hrs
SPA 3123 Speech Science II: Speech Perception 3 hrs
SPA 3123L Speech Perception Lab 1 hr
SPA 4201 Articulation/Phonological Disorders 3 hrs
SPA 4032 Audiology 3 hrs
LIN 4711 Language Analysis 3 hrs
LIN 4711L Language Analysis Lab 1 hr
SPA 4400 Language Disorders Across the Lifespan 3 hrs
SPA 4421 Aural Habilitation-Rehabilitation 3 hrs
EAB 3703 Principles of Behavior Management or
EEX 4601 Introduction to Behavioral Management 3 hrs
SPA 4050L Clinical Observation 3 hrs
SPA 4050C Clinical Methods 3 hrs
SPA 4052L Clinical Practice: Participant Observation 3 hrs

4. Statistics Requirement (6 hrs)
STA 2023 Statistical Methods I or
STA 4163 Statistical Methods II or
HSA 4700 Introduction to Research in the Health Professions

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

6. Departmental Exit Requirements
Students must achieve a minimum grade of “C-” (1.75) in all required courses and restricted electives in the Department.

7. Electives (6 hrs min)
B.A./B.S. Option.
- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college
- Students pursuing the B.S. degree must complete two health science courses (six credit hours) approved by the Department.

8. Foreign Language Requirements
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. ASL (American Sign Language) can only be used for restricted electives or foreign language admission requirement. It does not satisfy B.A. language requirement.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year.

9. University Minimum Exit Requirements (120 hrs)
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

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

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

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

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Spring</th>
<th>16 hrs</th>
<th>15 hrs</th>
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<td>ENC 1101</td>
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<td>ENC 1102</td>
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<td>PSC 1121 or PHY 2053C</td>
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<td>BSC 1005 or MCB 1310</td>
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<td>ECO 2013 or ECO 2023</td>
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<td>One Course: ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120, DEP 2004</td>
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<td>or POS 2041</td>
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<td>or AMH 2110</td>
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Sophomore Year

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<th>15/16 hrs</th>
<th>16/17 hrs</th>
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<td>SPC 1600</td>
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<td>EUH 2001 or HUM 2230 or AMH 2020</td>
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<td>Restricted Elective</td>
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<td>EAB 3703 or EDF 3307</td>
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<td>EAB 3703 or EDF 3307</td>
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<td>MGF 1105 or MAC 1105</td>
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<td>STA 2023</td>
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<tr>
<td>Foreign Lang I (B.A.) or Health Science (B.S.)</td>
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<td>Foreign Lang II (B.A.) or Health Science (B.S.)</td>
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<td>SPA 3002</td>
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Junior Year

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<tr>
<td>SPA 3011</td>
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<tr>
<td>SPA 3123L</td>
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<tr>
<td>SPA 3101</td>
<td>3</td>
<td>SPA 4201</td>
<td>3</td>
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</tbody>
</table>
Elective or STA 2023** 3 SPA 3104 3 Elective or STA 4163** 3
Senior Year
Fall 16 hrs Spring 12 hrs
SPA 4032 3 SPA 4321 3
SPA 4400 3 SPA 4052L 3
LIN 4711 3 Restricted Elective 3
LIN 4711L 1 HSA 4700** or Elective 3
SPA 4550C 3
**If Gen. Ed. has not been met, take:
STA 2023 3
STA 4163 3

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

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

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

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

COMPUTER ENGINEERING (B.S.Cp.E.)
College of Engineering and Computer Science
Department of Electrical and Computer Engineering
ENG 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 engineering 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)
- 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 3
     2. Take ENC 1102 3
     3. Prefer SPC 1016 3
     4. LIN 4111 3
  B. Cultural and Historical Foundations 9 hrs
     1. Core courses
     2. Electives
  C. Mathematical Foundations 7 hrs
     1. College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
     2. Take STA 2023 (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 Major (59 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U. 

4. Approved Technical Electives (6 hrs)
Technical electives are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECs encourages all engineering students to take the Fundamentals Exam during their senior year.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none
7. University Minimum Graduation Requirements

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

Total Semester Hours Required: 128 hrs

7. University Minimum Graduation Requirements


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.

10. Tentative Course Schedule for Entering Freshmen

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

Computer Engineering - 128 semester hours required

FIRST YEAR

Fall 14 hrs1 14 hrs1
- *Cult & Hist Foundations 1a 3
- *ENC 1101 English Comp I 3
- *SPC 1016 Tech Presentations 3
- EGN 1006C Intro to Engr 3
- *MAC 2311 Calc with Analytic Geo I 4

Spring 12 hrs1
- *ENC 1102 English Comp II 3
- EGN 1007C Eng Conc & Meth 1
- *MAC 2312 Calc with Analytic Geo II 4
- *PHY 2048L Phys for Eng/Sci I 4
- *PHY 2048L Phys for Eng/Sci II 4

SECOND YEAR

Fall 17 hrs1
- *MAP 2302 Diff Equations 3
- *PHY 2049 Phys Engr/Sci II 3
- *PHY 2049L Lab Engr/Sci II 1
- CHS 1440 Chem for Engr 4
- EGN 3310 Engr Anal-Statics 3
- EGN 3420 Eng Analysi1 3

Spring 15 hrs1 or 15 hrs1
- EGN 3321 Engr Anal-Dynamics 3
- EGN 3359 Ther-Flds-Ht Tran 3
- *PHY 3101 Physics for Engr III 3
- EGN 3342C Intro Dig Crc/Sys 3
- EGN 3801C Intro Cmptr Engr2 3
- EGN 3604 Electrical Networks 3

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

THIRD YEAR

Fall 14 hrs
- EEL 3306 Semicond1 Dev I 3
- EEL 4851C Eng Data Struc 4
- STA 3032 Prob/Stats for Engr 3
- EEL 3123C Networks and Systems 4

Spring 14 hrs
- EEL 3307C Electronics I 4
- EEL 3657 Linear Cont Sys 3
- EEL 4767C Cmp Sys Des'n I 4
- EEL 4882 Eigng Sys SW 3

FOURTH YEAR

Fall 14 hrs1 12 hrs1
- EEL 4768C Cmp Sys Dsgn II 4
- *Cult & Hist Foundations 2 3
- EEL 4848C Engr SW Dsgn 4
- Approved Technical Elective 3
- EEL 4914 Senior Design I 3
- EEL 4915 Senior Design II 3

Spring 12 hrs1
- Approved Technical Elective 3
- EEL 4781 Cmp networking 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 UCF degree programs 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 credit.

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

- Take ENC 1101 9 hrs
- Take ENC 1102 9 hrs
- Take SPC 1016 6 hrs

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 course descriptions.

- Take STA 3022 (3 hrs)

Note: Calculus II is the prerequisite for this course.

C. Mathematical Foundations

- Take ECO 2013 or Cmptr Engr 9 hrs
- Take ANT 2000, PSY 2012, or SYG 2000 7 hrs

D. Social Foundations

- Take ECO 2013 or ECO 2023 6 hrs
- Take ANT 2000, PSY 2012, or SYG 2000 7 hrs

E. Science Foundations

- Take PHY 2048/L 7 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 also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/L 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/L Physics for Engineers & Scientists I 4 hrs
- PHY 2049/L Physics for Engineers & Scientists II 4 hrs
- ENC 1101 Composition I 4 hrs
- ENC 1102 Composition II 4 hrs
- Humanities Courses 6 hrs
- Social Science Courses 6 hrs

3. Courses Required for the Major

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 technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics or
EGN 3339 Thermofluids-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
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 4854C Engineering Software Design 4 hrs

4. Approved Software Technical Electives (6 hrs)
Technological 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 technological software electives, in addition to the required software engineering courses listed in 3. above.

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.

5. Departmental Graduation Requirements (6 hrs)

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

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

Total Semester Hours Required: 128 hrs
Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

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

Computer Engineering - Software Engineering Concentration
128 semester hours required

FIRST YEAR
Fall 14 hrs1,2  Spring 12 hrs1,2
*Cal & Hist Foundations 1a 3  *ENC 1102 English Comp I 3
*ENC 1101 English Comp I 3  EGN 1007C Eng Conc & Meth 1
*SPC 1016 Tech Presentations 3  *MAC 2312 Calc with Analy Geo II 4
EGN 1006C Intro to Engr 1  *PHY 2048L Phys for Eng Sci I 4
*MAC 2311 Calc with Analytic Geo I 4

Summer 10 hrs1  
*Cal & Hist Foundations 2 3  
*Science Foundations 2 3
*MAC 2313 Calc with Analytic Geo II 4

SECOND YEAR
Fall 17 hrs1  Spring 15 hrs1
*MAP 2302 Diff Equations 3  EGN 3321 Engr Anal-Dynamics 4
*PHY 2049 Phys Engr II 3  or
PHY 2049L Lab Engr II 1  EGN 3358 Ther-Flds-Flt Tran 3
CHS 1440 Chem for Engr 4  *PHY 3101 Physics for Engr III 3
EGN 3310 Engr Anal-Statics 3  EGN 3420 Eng Analysis II 3
EEL 3342C Intro Dig Circ/Sys 3  EEL 3801C Intro Cmptr Engr 2 3
EEL 3004 Electrical Networks 3

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

THIRD YEAR
Fall 14 hrs  Spring 14 hrs
EEL 3306 Semicon'dy 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 Engr 3  EEL 4767C Cmp Sys Des/I 4
EEL 3123C Networks and Systems 4  EEL 4882 Ening Sys SW 3

FOURTH YEAR
Fall 14 hrs  Spring 12 hrs1,2
EEL 4768C Cmp Sys Desg II 4  EEL 4884C Engr SW Desgn 4
EEL 4914 Senior Desgn I 3  CEN 4020 Comp Des SW Engr 3
Approved software technical elective 3  or
EEL 5771C Eng AplComp Grph 3
EEL 4915L Senior Desgn II 3  EEL 4915L Senior Desgn II 3
EEL 4781 Comp Conc NWks 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. ENG 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
CSB 201
http://www.cs.ucf.edu
E-mail: computercscience@ucf.edu
Workman, 407-823-2341

Prior to taking courses beyond basic core requirements, students must pass a foundation exam (COT 3960) which covers problem solving techniques, algorithms, abstraction, proofs, and programming language skills. Tests will be administered each semester. Refer to the computer science website for more information about the foundation exam.

Degree Requirements
- Students must earn at least a 2.0 in each course in 2-6
### UCF Degree Programs

- **UCF General Education Program**
  - **(39 hrs)**
  - **A. Communication Foundations**
    - Select ENC 1101, ENC 1102
    - Prefer SPC 1016
  - **B. Cultural and Historical Foundations**
    - 9 hrs
  - **C. Mathematical Foundations**
    - Select MAC 2311 Calculus
    - Select STA 2023 Statistical Methods I
  - **D. Social Foundations**
    - 6 hrs
  - **E. Science Foundations**
    - Select PHY 2048 & L Physics for Sci & Engr (PR:MAC 2311)
    - 4 hrs
    - Select any science course designed for majors
    - 3 hrs (exclusive of Physics)

- **Common Program Prerequisites**
  - **(14 hrs)**
  - **1. UCF General Education Program**
    - **(39 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**
      - **(14 hrs)**
      - **COP 3223**
        - C Programming
        - 3 hrs
      - **MAC 2311**
        - Calculus with Analytic Geom I
        - GEP
      - **MAC 2312**
        - Calculus with Analytic Geom II
        - 4 hrs
      - **PHY 2048 & L**
        - Physics for Engr. & Sci. I & Lab
        - GEP
      - **PHY 2049 & L**
        - Physics for Engr. & Sci. II & Lab
        - 4 hrs

- **Basic Core Requirements**
  - **(21 hrs)**
  - **COP 3300**
    - Intro to Operating Systems
    - 3 hrs
  - **COP 3502C**
    - Computer Science I
    - 3 hrs
  - **COP 3503C**
    - Computer Science II
    - 3 hrs
  - **STA 2023**
    - Statistical Methods I
    - GEP
  - **ENC 3241**
    - Technical Report Writing
    - 3 hrs
  - **CDA 3103C**
    - Computer Organization
    - 3 hrs
  - **COT 3100C**
    - Intro to Discrete Structures
    - 3 hrs
  - **PHI 3626**
    - Ethics in Science and Technology
    - 3 hrs
  - **COT 3960**
    - Foundation Exam (PR:COT 3100 & COP 3502)
    - 0 hrs

- **Intermediate Core**
  - **(6 hrs)**
  - **COP 3402C**
    - Systems Software
    - 3 hrs
  - **COP 3500C**
    - Computer Science III
    - 3 hrs

- **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
    - 3 hrs
  - **COT 4210**
    - Discrete Comp Structures
    - 3 hrs
  - **COP 4020**
    - Programming Languages I
    - 3 hrs
  - **COP 4060**
    - Operating Systems
    - 3 hrs

- **Restricted Electives**
  - **(18 hrs)**
  - **4000-5000 level Computer Science courses**
    - 12 hrs
  - **4000-5000 level mathematics or statistics**
    - 6 hrs
    - courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106.
    - No independent study hours, internship, or cooperative education hours are allowed.

- **School Exit Requirements**
  - Complete an exit survey
  - Computer Competency met by completion of major

- **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

### 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 for students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

### CRIMINAL JUSTICE (B.A./B.S.)

**College of Health and Public Affairs**

**HPA1 311  407-823-2603**

http://www.cohpa.ucf.edu/crim jus/

**Undergraduate Program Coordinator:** David Fabianic

E-mail: cjadvise@mail.ucf.edu

**Admission Requirements:**

**none**

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

#### 1. UCF General Education Program
  - **(36 hrs)**
  - **A. Communication Foundations**
    - 9 hrs
  - **B. Cultural Historical Foundations**
    - 9 hrs
  - **C. Mathematical Foundations**
    - 6 hrs
  - **D. Social Foundations**
    - 6 hrs
  - **E. Science Foundations**
    - 6 hrs

#### 2. Common Program Prerequisites
  - **none**

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

#### 4. Upper Division Restricted Electives
  - **(42 hrs)**
  - **27 additional semester hours of upper division CCJ course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine semester hours.**
UCF Degree Programs

Legal Studies

Related Programs:
- Complete the General Education Program, the Gordon Rule, the "48 semester hours of upper division credit completed"
- 60 semester hours earned after CLEP awarded
- A 2.0 UCF GPA

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>
</tr>
</thead>
<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>CSS 1060</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>
</tr>
<tr>
<td>or AMH 2010, ARH 2050, THE 2000, or REL 2300</td>
<td>3</td>
<td>Elective</td>
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<tr>
<td>PHIL 2110, LIT 2120</td>
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Sophomore Year

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<tr>
<th>Fall</th>
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<th>Spring</th>
<th>15 hrs</th>
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<tbody>
<tr>
<td>SPC 1500</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>CCJ 3014</td>
<td>3</td>
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<tr>
<td>BSC 1005 or MCB 1310 or GLY 1030 or PSC 1121 or ANT 2011</td>
<td>3</td>
<td>CCJ Elective</td>
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<tr>
<td>Elective</td>
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<td></td>
<td></td>
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<tr>
<td>POS 2041 or ECO 2013</td>
<td>3</td>
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Junior Year

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<thead>
<tr>
<th>Fall</th>
<th>15/16 hrs</th>
<th>Spring</th>
<th>15/16 hrs</th>
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<tbody>
<tr>
<td>CJL 3510</td>
<td>3</td>
<td>CJL 4014</td>
<td>3</td>
</tr>
<tr>
<td>CJC 3510</td>
<td>3</td>
<td>CJC 4701</td>
<td>3</td>
</tr>
<tr>
<td>CCJ Elective</td>
<td>3</td>
<td>CCJ Elective</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Elective/Foreign Language</td>
<td>3</td>
<td>Supporting Elective/Foreign Lang.</td>
<td>3</td>
</tr>
<tr>
<td>CCJ Elective</td>
<td>3</td>
<td>CCJ Elective</td>
<td>3</td>
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</table>

Senior Year

<table>
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<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>9/15 hrs</th>
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<tbody>
<tr>
<td>CCJ Elective</td>
<td>3</td>
<td>CCJ Internship</td>
<td>3/6</td>
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<tr>
<td>CCJ Elective</td>
<td>3</td>
<td>CCJ Elective</td>
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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.creat.dm.ucf.edu

E-mail: digitalmedia@dm.ucf.edu

Director of School: Sterling Van Wagenen

Head of Digital Media Division: J. Michael Mosheil

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.creat.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 9 hrs
     - Take one of the listed two semester courses, and
     - If specializing in Visual Language, select ARH 2050.
   - C. Mathematical Foundations 6 hrs
     - Otherwise
       - Select ARH 2050 or MUL 2010
   - D. Social Foundations 6 hrs
     - If specializing in Tools for Visual Language
       - Select MAC 2311 Calculus with Analytical Geometry I
       - Select COP 3502 Computer Science I
     - Otherwise
       - Select MAC 1105 College Algebra and Trigonometry
       - Select COP 2500C Concepts in Computer Science
   - Note: these two courses fulfill the math GEP

2. Digital Media Core (21 hrs)
   - IDS 3707 Digital Media Principles 3 hrs
   - IDS 3853 Media Project Planning 3 hrs
   - Note: Admission to the following Digital Media core...
3. Specialization. Choose one of the following 6 areas:

Note: 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.creat.dm.ucf.edu for guidance.

Visual Language (B.A.) (36 hrs)
This specialization concerns how to tell stories and communicate using the visual language of the moving image, animation, and cinematic visual effects.

Common Program Prerequisites
MAC 2311 College Algebra GEP
ART 2050 The History of Art I GEP
ART 2201C Design Fundamentals I 3 hrs
ART 2203C Design Fundamentals II 3 hrs
ART 2301C Drawing Fundamentals I 3 hrs
ART 2301C Drawing Fundamentals II 3 hrs
COP 2500C Concepts in Computer Science GEP
* See transfer notes for possible substitutions.

3B: Visual Language - Basic Concentration: (15 hrs)
Note: Admission to all courses after IDS 3715 is dependent on the student’s achieving an ‘A’ in the Core course IDS 3715 - Visual Language.

IDS 3XXX The Production Process 3 hrs
IDS 3XXX Visual Storytelling and Visual Development 3 hrs
IDS 3XXX Artificial Characters 3 hrs
IDS 3XXX Artificial Environments & Effects 3 hrs
IDS 3XXX 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:
IDS 4XXX Visual Development Workshop 4 hrs
IDS 4XXX Artificial Characters Workshop 4 hrs
IDS 4XXX Artificial Environment & Effects Workshop 4 hrs
IDS 4XXX New Imagery in Motion Workshop 4 hrs
Electives (approved by advisor), Independent Studies or Senior Project 9 hrs

Tools for Visual Language (B.S.): (36 hrs)
This specialization concerns the science and technology behind visual language.

Common Program Prerequisites
ARH 2050 The History of Art I or
MAC 2311 Calculus I GEP
MAC 2312 Calculus II 3 hrs
COP 2523 C Language 3 hrs
COP 3502C Computer Science I GEP
COP 3520C Computer Science II GEP
COP 3520C Computer Science III GEP
PHY 2084 & L Physics for Engineers & Scientists I plus lab 4 hrs
MAC 2313 Calculus III 3 hrs

3B: Tools for Visual Language - Basic Concentration: (15 hrs)
COP 3330 Object Oriented Programming 3 hrs
COP 3353C Computer Science II 3 hrs
COT 3100C Introduction to Discrete Structures 3 hrs
IDS 3XXX The Production Process 3 hrs
IDS 3XXX Generating and Manipulating Digital Imagery 3 hrs
COT 3910C Foundation Exam 0 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 3502C Computer Science III 3 hrs
Select two of:
IDS 4XXX Geometrical Modeling Workshop 4 hrs
IDS 4XXX Look Modeling Workshop 4 hrs

IDS 4XXX Production Software Workshop 4 hrs
Electives (approved by advisor), Independent Studies or Senior Project 10 hrs

Writing for Media (B.A.): (30 hrs)
3A: Writing for Media - Common Program Prerequisites:
ART XXXX Computer Graphics for Artists 3 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
MAC 1105 College Algebra GEP
COP 2500C Concepts in Computer Science GEP
Select one course
ARH 2050 The History of Art I GEP
ARH 2051 The History of Art II GEP
MUL 2100 Enjoyment of Music

3B: Writing for Media - Basic Concentration: (15 hrs)
Note: Admission to all courses after IDS 3715 is dependent on the student’s achieving an ‘A’ in the Core course IDS 3715 - Visual Language.

Choose five of the following courses:
ENC 4218 Visual Elements in Documentation 3 hrs
ENG 4114 Literature and Film 3 hrs
ENC 4215 Techniques of Tech. Publication 3 hrs
ENC 4312 Theory & Prac Persuasive Writing 3 hrs
ENC 3310 Magazine Writing 3 hrs
ENC 4265 Writing for Computer Industry 3 hrs
ENC 4285 Tech Writing Style 3 hrs
ENC 4293 Technical Documentation I 3 hrs

3C: Writing for Media - Advanced Concentration: (15 hrs)

Digital Music (B.A.): (34 hrs)
This specialization is designed for those with substantial prior musical experience.

3A: Digital Music - Common Program Prerequisites:
ART 2050 The History of Art I GEP
MAC 2311 College Algebra GEP
MUL 2100 Enjoyment of Music GEP
MUT 1111 Music Theory I A 2 hrs
MUT 1112 Music Theory I B 2 hrs
MUT 2116 Music Theory IIA 2 hrs
MUT 2117 Music Theory IIB 2 hrs
MUT 1241 Ear Training/Sight Singing IA 1 hr
MUT 1242 Ear Training/ Sight Singing IB 1 hr
COP 2500C Concepts in Computer Science GEP

3B: Digital Music - Basic Concentration: (19 hrs)

Choose five of the following courses:
MUC 3311 MIDI Sequencing I 3 hrs
MUC 4310 Music Forum (four semesters) 8 hrs
MUN XXXX Ensembles (four semesters) 4 hrs
MVVMVW Performance (four semesters) 8 hrs
MUC 1101C Composition I 2 hrs
MUC 2104C Composition II 2 hrs

3C: Digital Music - Advanced Concentration: (15 hrs)

Choose five of the following courses:
MUC 4411 MIDI Sequencing II 3 hrs
MUC 4313 Advanced Computer Music 3 hrs
MUC 4510C Composition III 3 hrs
MUC 4511C Composition IV 3 hrs
MUC 4512C Composition V 3 hrs
MUC 4513C Composition VI 3 hrs
MUC 4612C Composing for Film/Video 3 hrs

Tools for Digital Music (B.A.): (34 hrs)
This specialization is designed for those who need to acquire a basic background in music.

3A: Tools for Digital Music - Common Program Prerequisites:
MUL 2100 Enjoyment of Music GEP
MUT 1111 Music Theory I A 2 hrs
MUT 1112 Music Theory I B 2 hrs
MUT 1241 Ear Training/Sight Singing IA 1 hr
COP 2500C Concepts in Computer Science GEP

3B: Tools for Digital Music - Basic Concentration: (14 hrs)

Choose five of the following courses:
MUS 1010 Music Forum (four semesters) 8 hrs
MVV/MVW Performance (four semesters) 4 hrs
MUS 1010 Music Forum (four semesters) 0 hrs
MUS 2360 MIDI Sequencing I 3 hrs
MUT 1241 Ear Training/Sight Singing IA 1 hr
MUT 1242 Ear Training/ Sight Singing IB 1 hr
COP 2500C Concepts in Computer Science GEP

Tools for Digital Music (B.A.): (34 hrs)
This specialization is designed for those who need to acquire a basic background in music.
3C: Tools for Digital Music - Advanced Concentration: (20 hrs)

Note: A portfolio review is required for admission to these courses.

- MUS 4441 - MIDI Sequencing I
- MUS 4513 - Advanced Computer Music
- FIL 3211 - Sound Design I
- FIL 4212C - Sound Design II
- IDS 4612C - Composition for Film/Video
- MUS 4543C - Digital Music Project

Select any six of the following courses (18 hrs)

- IDS 3707 - Digital Media Principles
- IDS 3687C - Digital Imagery
- IDS 4681C - UNIX for Graphic Integration
- IDS 4XXX - Interactive Performance I
- IDS 4XXX* - Design Fundamentals I
- IDS 4XXX* - Video Production and Editing

3A: Internet - Common Program Prerequisites:

- MAC 1105 - College Algebra
- ART XXXX* - Computer Graphics for Artists
- ART XXXX* - Design Fundamentals I
- XXX XXX* - Video Production and Editing
- Select one course
- ARH 2050 - The History of Art I
- ARH 2051 - The History of Art II
- MUL 2010 - Enjoyment of Music

* See transfer notes for possible substitutes.

3B: Internet - Basic Concentration: (15 hrs)

- COP 2500C - Concepts in Computer Science
- FIL 3625 - Interactive Entertainment
- MUS 2360 - Music Technology OR
- MUC 311 - MIDI Sequencing I
- ENC 4415 - Digital Rhetic & Narrative
- PHI 3625 - Ethics of Science and Technology
- IDS 3728C - Assembling Media
- IDS 4688L - Internet Interaction

3C: Internet - Advanced Concentration: Select any six of the following courses (18 hrs)

- IDS 4681 - Modeling for Realtime Graphics
- IDS 4XXX - Modeling for Realtime Systems II
- IDS 4686C - Game Design
- IDS 4711C - Game Engines
- IDS 4688C - Media for E-Commerce I
- IDS 4704 - Media for E-Commerce II
- IDS 4705 - Autonomous Media
- IDS 4706 - Creative Digital Devices
- FIL 3211 - Sound Design I
- FIL 3624 - Media Convergence
- CAP 4020 - Digital Media
- EXP 5255 - Human Factors I
- FIL 4212C - Sound Design II
- IDS 3715 - Visual Language of the Moving Image
- IDS 4XXX - Interactive Performance I
- IDS 4XXX - UNIX for Graphic Integration
- IDS 4620L - Digital Media Project I (Subject to acceptance)
- IDS 4703 - Digital Media Project 2 (Subject to acceptance)

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

4. Capstone Experience (3 hrs)

- IDS 3648L - Digital Media Service I
- IDS 4685L - Digital Media Service II
- IDS 4XXX - Digital Media Careers

5. Foreign Language Requirements (0-11 hrs)

BA requirements:

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

BS Requirements:

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

Graduation: None

6. Electives (variable)

Electives will consist of 3000 and 4000-level courses as approved by the student's advisor. These electives may include IDS 4682L Digital Media Project 1 or IDS 4703 Digital Media Project 2, subject to acceptance in the project.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- At least four of the last 30 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

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

8. Total Semester Hours Required 120 hours

Related Programs: Art, Computer Science, English, Film, Music

Related Minors: 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.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:

- COP 3502C may use any COP course. However, COP 3502C is a prerequisite for all Computer Science courses and still must be taken.
- IDS 3707 (Digital Media Principles) may use IDS 2680 (Introduction to Digital Media)
- ART XXXX - Computer Graphics for Artists may use ART 2600 or IDS 3687C
- ART XXXX - Design Fundamentals I may use ART 2201C or IDS 3715
- ART XXXX - Video Production and Editing may use IDS 3287C or FIL 2201 or RTV 3280C

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 four parts of the CLAST examination (no alternatives or waivers are accepted)
- Complete common program prerequisite courses
- Meet any special departmental requirements

Degree Requirements:

- Students should see an advisor
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations (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 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)
PSC 1121 Physical Science 3 hrs
Select one:
ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
A. Communications
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
SPC 1600 Fundamentals of Oral Communication GEP

B. Humanities
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
MAC 1105 College Algebra 3 hrs
MGF 1106 Finite Mathematics GEP
One of the following (per GEP)
STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics

D. Social Science/History (12 hrs)
AMH 2010 U.S. History 1492-1877 GEP
AMH 2020 U.S. History 1877-Present GEP
POS 2041 American National Government GEP
PSY 2012 General Psychology GEP

E. Science
Select one associated science lab:
GLY 1030 Geology and its Applications 1 hr

F. Education Courses (9 hrs)
EDF 3120 Observing Child Growth & Development 3 hrs
LAE 3414 Children's Literature 3 hrs
EEC 3268 Play Development 3 hrs
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools

Semester II (15 hrs)
EDF 3207 3 hrs
EEX 3430 3 hrs
PSC 1121L Physical Science Laboratory 3 hrs
STA 1060C Basic Statistics using MS Excel 3 hrs
RED 3310 Emergent Literacy 3 hrs
RED 3012 3 hrs

Summer (6 hrs)
EEX 4751 Parent Involvement 3 hrs
ECC 4731 Health, Safety, Nutrition 3 hrs

Semester III (12 hrs)
RED 4311 Development of Literacy 3 hrs
MAE 4300 Exploring Mathematics 3 hrs
SCE 4023 Teaching Science & Technology 3 hrs
ECC 3940 Internship I 3 hrs

Semester IV (12 hrs)
ECC 4943 Internship II 9 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 an ESOL 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 hrs

Transfer Notes:
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information. Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements.
**ECONOMICS (B.A.)**

**College of Business Administration**

Department of Economics, BA2 305, 407-823-3266

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

- Students who change degree programs and select this major must adopt the most current catalog
- Co-op or internship credit cannot be used in the major
- Students should consult with a 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

**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 STA 2023 Principles of Statistics
     - 3 hrs
   - D. Social Foundations
     - Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics, PSY 1020, SYG 2000 or ANT 2000
     - 3 hrs
   - E. Science Foundations
     - 6 hrs

2. **Common Program Prerequisites** (3 hrs)
   - ECO 2013* Macroeconomics
   - ECO 2023* Microeconomics
   - *See Transfer Notes for possible substitutes

3. **Core requirements** (15 hrs)
   - ECO 3101 Intermediate Price Theory
     - 3 hrs
   - ECO 3203 Aigger Eco Conditions Anal
     - 3 hrs
   - ECO 3401 Quantitative Business Tools I
     - 3 hrs
   - ECO 3411 Quantitative Business Tools II
     - 3 hrs
   - ECO 4451 Research Methods in Economics
     - 3 hrs

4. **Upper Division Restricted Electives** (18 hrs)
   - International option—Select six courses
     - ECO 3703 International Economics
     - ECO 3723 International Commercial Policy
     - ECO 4701 The Global Economy
     - ECO 4003 Comparative Economic Systems
     - ECO 4013 Economic Development
     - ECO 4231 The Japanese Economy
     - ECO 4303 Economics of European Integration
     - ECO 4240 Economics of the Pacific Rim
     - ECO 4210 The Chinese Economy
     - ECO 4442H Economic Development of Mexico and Central America
   - *Requires departmental approval
   - Standard option—Select six courses:
     - ECO 3223 Money and Banking
     - ECO 3622 American Economic History
     - ECO 3703 International Economics
     - ECO 3723 International Commercial Policy
     - ECO 4303 History of Economic Thought
     - ECO 4412 Economic Statistics and Econometrics
     - ECO 4504 Economic of the Public Sector
     - ECP 3203 Contemp Labor Economics
     - ECP 3433 Transportation Economics
     - ECP 4403 Business, Govt & Indus Organization
     - ECP 4603 Urban and Regional Eco Problems
     - ECP 4703 Managerial Economics
     - ECS 4003 Comparative Economic Systems
     - ECS 4013 Economic Development
     - ECS 4231* The Japanese Economy
     - ECS 4303 Economics of European Integration
     - ECS 4204 Economics of the Pacific Rim
     - ECS 4210 The Chinese Economy
     - ECS 4442H Economic Development of Mexico and Central America

5. **Required Minor** (18 hrs minimum)
   - Completion of a minor in one of the following:
     - Digital Media, Computer Science, History, Mathematics, Statistics, the Social and Behavioral Sciences, or Technical Writing.

6. **Departmental Exit Requirements**
   - Maintain a minimum GPA of 2.0 in required courses
   - Computer Competency met by Research Methods course

7. **Foreign Language Requirements** (0-8 hrs)
   - Admission: 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 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 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.
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 3 hrs
Select: MAC 1105 College Algebra
Select: CGS 2100C Computer Fundamentals for Business
D. Social Foundations* 3 hrs
Select: ECO 2013 Macroeconomics or
     ECO 2023 Microeconomics
Select one: PSY 2012, SYG 2000, ANT 2000
E. Science Foundation 6 hrs

2. Common Program Prerequisites
   Must be completed with a “C” (2.0) or better.
   ACG 2021 Principles of Financial Accounting 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. 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 4043 Business Finance 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   ISM 3011 Essentials of Management Information Systems 3 hrs
   MAR 3025 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 can transfer into the program and
     students must have a “C” (2.0) or better in each common pro-
     gram prerequisite class.
   • Final exams will be given during Exam Week.
   • Students must have at least a 2.0 GPA in the COB.
   • Any student receiving a business degree must complete one half
     (30) of the 60 upper level business courses for their degree pro-
     gram in the UCF College of Business Administration.
     Additionally, 12 of the 30 credit hours completed at UCF must be
     from the department or school in which the student majors.

5. Required Major Courses (9 hrs)
   ECO 3401 Quantitative Business Tools I 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 4071 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 Economies 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 3 hrs
      Central America
   *ECO 4941 Economics Internship 3 hrs
   *Requires special approval
   C. Multi-Disciplinary Option - Select any four (4) economic 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 3 hrs
Emphasis 2 Area Studies 3 hrs
Emphasis 3 International Business 3 hrs

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 res-
     idency 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 applica-

9. Electives*** (variable)

Total Semester Hours Required 120 hrs

Community/University 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 prerequisite 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
   ECO 2023* 3 ECO 2033* 3
   ENC 1101* 3 ENC 1102* 3
   Cult-Hist I* 3 Cult-Hist II* 3
   SPC 1600 3 AntMusicLit 3
   **Elective 3 MAC 1105* 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 2033* 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
   ECO 4941 Economics Internship 3 hrs
   *Requires special approval
## UCF Degree Programs

### 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 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**  
   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 MAC 2312, Calculus with Analytic Geometry II (4 hrs).
   **D. Social Foundations**  
   1. Take ECO 2013 or ECO 2023.
   **E. Science Foundations**  
   1. Take PHY 2048/48L.

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>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 1440</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>4</td>
</tr>
<tr>
<td>Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>4</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048/48L</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2049/49L</td>
<td>4</td>
</tr>
</tbody>
</table>

3. **Courses Required for the Major**  
(55 hrs)  
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 1006C</td>
<td>1</td>
<td>Intro to the Engineering Profession</td>
</tr>
<tr>
<td>EGN 1007C</td>
<td>1</td>
<td>Engineering Concepts &amp; Methods</td>
</tr>
<tr>
<td>EGN 3310</td>
<td>3</td>
<td>Engineering Analysis - Statics</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>3</td>
<td>Engineering Analysis - Dynamics or</td>
</tr>
<tr>
<td>EGN 3358</td>
<td>3</td>
<td>Thermo-Fluids-Heat Transfer</td>
</tr>
<tr>
<td>EGN 3420</td>
<td>3</td>
<td>Engineering Analysis</td>
</tr>
<tr>
<td>STA 3023</td>
<td>3</td>
<td>Probability &amp; Statistics for Engineers</td>
</tr>
<tr>
<td>PHY 20410</td>
<td>3</td>
<td>Physics for Engineers &amp; Scientists III</td>
</tr>
<tr>
<td>EEL 3004</td>
<td>3</td>
<td>Electrical Networks</td>
</tr>
<tr>
<td>EEL 3123C</td>
<td>4</td>
<td>Networks and Systems</td>
</tr>
<tr>
<td>EEL 3306</td>
<td>3</td>
<td>Semiconductor Devices I</td>
</tr>
<tr>
<td>EEL 3370C</td>
<td>3</td>
<td>Electronics I</td>
</tr>
<tr>
<td>EEL 3391</td>
<td>3</td>
<td>Intro to Digital Circuits &amp; Systems</td>
</tr>
<tr>
<td>EEL 3470</td>
<td>3</td>
<td>Electromagnetic Fields</td>
</tr>
<tr>
<td>EEL 3525C</td>
<td>4</td>
<td>Signal Analysis and Communications</td>
</tr>
<tr>
<td>EEL 3576</td>
<td>3</td>
<td>Linear Control Systems</td>
</tr>
<tr>
<td>EEL 3801C</td>
<td>3</td>
<td>Intro to Computer Engineering</td>
</tr>
<tr>
<td>EEL 4309C</td>
<td>4</td>
<td>Electronics II</td>
</tr>
<tr>
<td>EEL 4750</td>
<td>3</td>
<td>Digital Signal Processing Fund.</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>4</td>
<td>Computer System Design I</td>
</tr>
</tbody>
</table>

4. **Approved Technical Electives**  
(10 hrs)  
Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. **Departmental Graduation Requirements**  
(6 hrs)  
- EEL 4914  
  - Senior Design I  
  - 3 hrs
- EEL 4915L  
  - Senior Design II  
  - 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. **Foreign Language Requirements**  
(0-8 hrs)  
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:**  
None

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

**Total Semester Hours Required:**  
128 hrs

**Related Programs:**  
Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:**  
None

**Transfer Notes:**  
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
### Tentative Course Schedule for Entering Freshmen

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

**Electrical Engineering - 128 semester hours required**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>12 hrs</td>
<td>Spring</td>
</tr>
<tr>
<td>EGN 1006C Intro to Engr</td>
<td>1</td>
<td>EGN 1007C Eng Conc &amp; Meth</td>
</tr>
<tr>
<td>*ENC 1101 English Compl I</td>
<td>3</td>
<td>*ENC 1102 English Compl II</td>
</tr>
<tr>
<td>*CHS 1440 Chem for Engrs</td>
<td>4</td>
<td>*SPC 1016 Tech Presentations</td>
</tr>
<tr>
<td>*MAC 2311 Calc with Analytic Geo I</td>
<td>4</td>
<td>*MAC 2312 Calc with Analytic Geo II</td>
</tr>
<tr>
<td>*PHY 2049L Phys Engr I Lab</td>
<td>4</td>
<td>*PHY 2049L Phys Engr I Lab</td>
</tr>
<tr>
<td>Summer</td>
<td>11 hrs</td>
<td></td>
</tr>
<tr>
<td>*Cult &amp; Hist Foundations 1a</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*MAC 2313 Calc with Analytic Geo III</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*PHY 2049 Phys Engr/Sci II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*PHY 2049L Phys Lab Engr/Sci II</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>SECOND YEAR</strong></td>
<td>15 hrs</td>
<td>15 hrs</td>
</tr>
<tr>
<td>Fall</td>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>*MAP 2302 Diff Equations</td>
<td>3</td>
<td>EGN 3310 Engr Anal-Statics</td>
</tr>
<tr>
<td>*PHY 3101 Phys for Engr/Sci III</td>
<td>3</td>
<td>EEL 3342C Intro to Dig Circ/Sys</td>
</tr>
<tr>
<td>*Science Foundations 2</td>
<td>3</td>
<td>EEL 3807C Intro to Comp Engr</td>
</tr>
<tr>
<td>*Social Foundations 1</td>
<td>3</td>
<td>EGN 3400 Electrical Networks</td>
</tr>
<tr>
<td>EGN 3420 Engineering Anal</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>*Cult &amp; Hist Foundations 1b</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*ECC 2013 Macroeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECO 2023 Microeconomics</td>
<td></td>
<td></td>
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<tr>
<td><strong>THIRD YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td>Spring</td>
</tr>
<tr>
<td>EEL 3306 Semicond Devices I</td>
<td>3</td>
<td>EGN 3307C Electrons I</td>
</tr>
<tr>
<td>STA 3302 Prob &amp; Stats Engrs</td>
<td>3</td>
<td>EEL 3657 Linear Control Sys</td>
</tr>
<tr>
<td>EEL 4767C Comp Sy Design I</td>
<td>4</td>
<td>EEL 4750 Dig Signal Prog Fund</td>
</tr>
<tr>
<td>EEL 3123C Networks and Systems</td>
<td>4</td>
<td>EGN 3321 Engr Anal-Dynamics</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td>or</td>
</tr>
<tr>
<td>EGN 3558 Ther-Thds-Ht Transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FOURTH YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td>Spring</td>
</tr>
<tr>
<td>EEL 3552C Sig Anal &amp; Comm</td>
<td>4</td>
<td>Approved Technical Elective</td>
</tr>
<tr>
<td>EEL 3470 Electromagnetic Flds</td>
<td>3</td>
<td>Approved Technical Elective</td>
</tr>
<tr>
<td>EEL 4309C Electronics II</td>
<td>4</td>
<td>Approved Technical Elective</td>
</tr>
<tr>
<td>EEL 4914 Senior Design I</td>
<td>3</td>
<td>EEL 4915L Senior Design II</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the UCF General Education Program (GEP) elsewhere in this catalog for further information.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Assumes knowledge of a higher level programming language (C preferred).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### UCF Degree Programs

#### Electrical Engineering - Microelectronics Concentration (B.S.E.E.)

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.

#### Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

#### Electrical Engineering - Microelectronics Concentration (B.S.E.E.)

College of Engineering and Computer Science
K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

### Degree Requirements

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

#### 1. UCF General Education Program for Engineering Students

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

- **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 ECO 2013 or ECO 2023.

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

- **E. Science Foundations**
  - 7 hrs
  - 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.

- **Chemistry Courses GEP**
  - 4 hrs
  - 1. Take EGC 1050

- **Physics Courses GEP**
  - 4 hrs
  - 1. Take EGC 1010

- **Math Courses GEP**
  - 4 hrs
  - 1. Take MAC 2311

- **Engineering Courses GEP**
  - 4 hrs
  - 1. Take EGN 1006C

- **Computer Science Courses GEP**
  - 3 hrs
  - 1. Take EGN 1007C

---

**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 UCF General Education Program (GEP) elsewhere in this catalog for further information.

- Assumes knowledge of a higher level programming language (C preferred).

- EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

**Integrated BS/MS Degree Program**

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.
EEL 3801C Intro to Computer Engineering 3 hrs
EEL 4309C Electronics II 4 hrs
EEL 4750 Digital Signal Processing Fund. 3 hrs
EEL 4767C Computer System Design I 4 hrs

4. Approved Microelectronics Technical Electives (10 hrs)
Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those students with a declared interest in microelectronics, a concentration in this area is available by taking three microelectronics technical electives in addition to the required microelectronics courses listed in 3. above.

5. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

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

Total Semester Hours Required: 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.

ELECTRICAL ENGINEERING - WIRELESS COMMUNICATION 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 registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

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

A. Communication Foundations 9 hrs
1. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
1. Take MAC 2311, Calculus with Analytic Geometry I (4 hrs).

C. Mathematical Foundations 7 hrs
1. Take EEL 4750 Digital Signal Proc Fund 3

Notes: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3023 (3 hrs),
D. Social Foundations 6 hrs
1. Take ECO 2013 or ECO 2023.
E. Science Foundations 7 hrs
1. Take PHY 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 1440</td>
<td>Fundamentals of Chemistry for Eng</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry I</td>
<td>GEP</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analytic Geometry II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus with Analytic Geometry III</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2048/48L</td>
<td>Physics for Engineers &amp; Scientists I</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 2049/49L</td>
<td>Physics for Engineers &amp; Scientists II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>Humanities Courses</td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>Social Science Courses</td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>Humanities or Social Sciences</td>
<td>GEP</td>
<td></td>
</tr>
</tbody>
</table>

3. Courses Required for the Major (55 hrs)
The College of Engineering and Computer Science requires all engineering students to take a minimum 2.25 GPA in completion of these courses, together with the technical elective courses listed in 4, below and with the senior design courses listed in 5, below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 1006C</td>
<td>Intro to the Engineering Profession</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 1007C</td>
<td>Engineering Concepts &amp; Methods</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 3310</td>
<td>Engineering Analysis - Statics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>Engineering Analysis - Dynamics or</td>
<td></td>
</tr>
<tr>
<td>EGN 3358</td>
<td>Thermo-Fluids-Heat Transfer</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3420</td>
<td>Engineering Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 3032</td>
<td>Probability &amp; Statistics for Engineers</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Physics for Engineers &amp; Scientists III</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3004</td>
<td>Electrical Networks</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3123C</td>
<td>Networks and Systems</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3306</td>
<td>Semiconductor Devices I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3307C</td>
<td>Electronics I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3342C</td>
<td>Intro to Digital Circuits &amp; Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3470</td>
<td>Electromagnetic Fields</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3552C</td>
<td>Signal Analysis and Communications</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3657</td>
<td>Linear Control Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3801C</td>
<td>Intro to Computer Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4099C</td>
<td>Electronics II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 4750</td>
<td>Digital Signal Processing Fund.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>Computer System Design I</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

4. 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4914</td>
<td>Senior Design I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4915L</td>
<td>Senior Design II</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
| CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

5. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I
- EEL 4915L Senior Design II
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.

- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).
Related Minors: none
Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

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

Electrical Engineering - Wireless Communication Concentration
128 semester hours required

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
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<tbody>
<tr>
<td>1st Semester</td>
<td>12 hrs</td>
<td>15 hrs</td>
</tr>
<tr>
<td>EGN 1006C</td>
<td>Intro to Engr Prof</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 1007C</td>
<td>Engineering Concepts &amp; Methods</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 3310</td>
<td>Engineering Analysis Statics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>Engineering Analysis Dynamics or</td>
<td></td>
</tr>
<tr>
<td>EGN 3358</td>
<td>Thermo-Fluids-Heat Transfer</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3420</td>
<td>Engineering Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 3032</td>
<td>Probability &amp; Stats for Engineers</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Physics for Engineers &amp; Scientists III</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3004</td>
<td>Electrical Networks</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3123C</td>
<td>Networks &amp; Systems</td>
<td>4 hrs</td>
</tr>
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<td>Semiconductor Devices I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3307C</td>
<td>Electronics I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3342C</td>
<td>Intro to Digital Circuits &amp; Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3470</td>
<td>Electromagnetic Fields</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3552C</td>
<td>Signal Analysis &amp; Communications</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3657</td>
<td>Linear Control Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3801C</td>
<td>Intro to Computer Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4099C</td>
<td>Electronics II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 4750</td>
<td>Digital Signal Processing Fund.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>Computer System Design I</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
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</thead>
<tbody>
<tr>
<td>2nd Semester</td>
<td>15 hrs</td>
<td>15 hrs</td>
</tr>
<tr>
<td>*MAP 2302 Diff Equations</td>
<td>3 hrs</td>
<td>*Cult &amp; Hist Foundations 1a</td>
</tr>
<tr>
<td>*PHY 3101 Phys Engr/Sci III</td>
<td>3 hrs</td>
<td>*PHY 2049L Phys Lab EngrScI</td>
</tr>
<tr>
<td>*Science Foundations 2</td>
<td>3 hrs</td>
<td>EEL 3342 Intro to Dig CirSys</td>
</tr>
<tr>
<td>*Social Foundations 1</td>
<td>EEL 3304 Electrical Networks</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*EGN 3420 Engineering Anal</td>
<td>EEL 3304 Electrical Networks</td>
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</tr>
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</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3rd Semester</td>
<td>14 hrs</td>
<td>13 hrs</td>
</tr>
<tr>
<td>EEL 3306</td>
<td>Semicond Devices I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 3032</td>
<td>Prob &amp; Stats for Engr</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4787C</td>
<td>Cmptr Sys Design</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3123C</td>
<td>Networks &amp; Systems</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3552C</td>
<td>Sig Anal &amp; Comm</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3657</td>
<td>Linear Control Sys</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3767</td>
<td>Computer System Design</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4th Semester</td>
<td>14 hrs</td>
<td>13 hrs</td>
</tr>
<tr>
<td>EEL 3552C</td>
<td>Sig Anal &amp; Comm</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3767C</td>
<td>Electromagnetic Flds</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3801C</td>
<td>Intro to Digital Circuits</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3801C</td>
<td>Intro to Computer Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4099C</td>
<td>Electronics II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 4750</td>
<td>Digital Signal Processing Fund.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>Computer System Design</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EEL 3552C and EEL 1007C are required courses for incoming freshmen only.

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

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.
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

- **A. Communication Foundations**
  - Take ENC 1101, ENC 1102
- **B. Cultural and Historical Foundations**
  - MAC 1105
  - STA 2023
- **C. Mathematical Foundations**
  - MAC 2311
- **D. Social Foundations**
  - MAC 2311
- **E. Science Foundations**
  - BSC 1005L, BSC 1050L, or GEO 1200L
  - PHY 2053C

#### 2. Common Program Prerequisites (CPP)

- **MAC 2534**
- **MAC 2544**
- **MAC 2545**

#### 3. Engineering Technology Core Requirements

- **BSC 1050L, BSC 1050L, GEO 1200L**
- **ENC 3244**
- **MAC 1105**
- **MAC 3311**
- **MAC 3312**
- **MAC 2538**
- **MAC 3231**
- **MAP 3401**
- **MAC 2312**
- **PHY 2054**
- **PHY 2055**
- **ETG 3541**
- **ETI 3511**
- **ETI 3116**
- **ETI 4448**

#### 4. Technical Specialization

- **Lower Level Required and Elective Courses**
  - **EST 3534**
  - **CET 3134C**
  - **CET 3234**
  - **CET 3333**
  - **CET 4422**
  - **CET 4505**
  - **EET 3716**
  - **CET 4134C**
  - **CET 4429**

- **Upper Level Required Courses**
  - **CET 3198C**
  - **CET 3503**
  - **CET 3533**
  - **CET 4427**
  - **CET 4505**
  - **CET 4134C**
  - **CET 4429**

- **Upper Level Elective Courses**
  - **ETI 4448**

#### 5. Departmental Exit Requirement

- **ETG 4950C Senior Design Project**
- A grade of 2.0 or better is required in all prerequisites.

#### 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. 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 residence at UCF**
- **25% of course work must be completed in residency at UCF**
- **A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted**
- **Complete the General Education Program, the Gordon Rule, the CLAST, and the Departmental Residency Requirements of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF 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

<table>
<thead>
<tr>
<th>Fall</th>
<th>13/14 hrs</th>
<th>Spring</th>
<th>12/13hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2253/2311 Calculus I</td>
<td>3/4</td>
<td>MAP 3401 Prob Analysis or MAC 2312 Calculus II</td>
<td>3/4</td>
</tr>
<tr>
<td>PHY 2054/2049 Physics II</td>
<td>4</td>
<td>EET 3716 Network Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CET 4427 Applied Database I</td>
<td>3</td>
<td>CET 3383 Appl Sys Anal I</td>
<td>3</td>
</tr>
<tr>
<td>CET 3198C Digital Systems</td>
<td>3</td>
<td>CET 3387 Digital Systems</td>
<td>3</td>
</tr>
<tr>
<td>CET 3503 Microcomputer Technology I</td>
<td>3</td>
<td>CET 4134C Microelectronics II</td>
<td>3</td>
</tr>
<tr>
<td>CET 3533 Computer Organization &amp; Design</td>
<td>3</td>
<td>CET 4333 Computer Org</td>
<td>3</td>
</tr>
<tr>
<td>EET 3716 Network Analysis</td>
<td>3</td>
<td>CET 4138C Digital Signal Devices</td>
<td>4</td>
</tr>
<tr>
<td>CET 4427 Applied Database I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET 4505 Applied Operating Systems I</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>EET 3716 Network Analysis</td>
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</tr>
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<td>CET 4134C Digital Programmable Devices</td>
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<tr>
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<td></td>
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</tr>
<tr>
<td>CET 3198C Microprocessor Elect II</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CET 4429 Applied Database II</td>
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<table>
<thead>
<tr>
<th>Summer</th>
<th>10 hrs</th>
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<tbody>
<tr>
<td>CET 4134C Microelectronics II</td>
<td>3</td>
</tr>
<tr>
<td>CET 4333 Computer Org</td>
<td>3</td>
</tr>
<tr>
<td>CET 4138C Digital Signal Devices</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>15 hrs</th>
<th>Spring</th>
<th>14 hrs</th>
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</thead>
<tbody>
<tr>
<td>EET 4448 Appl Proj Management</td>
<td>3</td>
<td>CET 3950C Senior Design</td>
<td>3</td>
</tr>
<tr>
<td>CET 3503 Microcomputer Tech I</td>
<td>3</td>
<td>CET 4427 Applied Database II</td>
<td>3</td>
</tr>
<tr>
<td>CET 4134C Microprocessor Elect II</td>
<td>3</td>
<td>CET 4505 Appl Oper Sys I</td>
<td>3</td>
</tr>
<tr>
<td>CET 3198C Digital Systems</td>
<td>3</td>
<td>CET 3541 Appl Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CET 4429 Applied Database II</td>
<td>3</td>
<td>CET Elective</td>
<td>3</td>
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</tbody>
</table>
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

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
   - A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

B. Cultural and Historical Foundations 9 hrs
   - A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

C. Mathematical Foundations
   - prefer MAC 1105
   - or MAC 1140 College Algebra

D. Social Foundations 6 hrs
   - A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

E. Science Foundations
   - A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

MAC 1114 College Trigonometry 3 hrs
MAC 1105 College Algebra GEP

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

MAC 2233 or MAC 2311
MAC 2244 or MAC 2311
PHYS 2053 or PHYS 2048L

3. Engineering Technology Core Requirements (24 hrs)

EET 1025C Electrical Circuits 4 hrs
EET 3143C Electronic Devices and Circuits 4 hrs
ETI 3161 Applied Engrr Quality Assurance 3 hrs
ETI 4448 Senior Project Management 3 hrs

4. Technical Specialization (57 hrs)

Lower Level Required and Elective Courses (29 hrs)

EST 3543C Programmable Logic Controllers 3 hrs
CET 3223C Digital Fundamentals 4 hrs
CET 2364 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 1025C Electrical Circuits 4 hrs
EET 3085C Electricity and Electronics 4 hrs
STA 2023 Statistical Methods I GEP

Upper Level Required Courses (21 hrs)

CET 3198C Digital Systems 3 hrs
CET 3502C Microcomputer Technology I 3 hrs
CET 4134C Microprocessor Electronics II 3 hrs
EET 3716 Network Analysis 3 hrs
EET 4159C Linear Integrated Circuits 3 hrs
EET 4540C Power Systems 3 hrs
EET 4732C Feedback Control Systems 3 hrs

Upper Level Technical Electives (7 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

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

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 Department Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048L can substitute for PHY 2053C.

Tentative Course Schedule for the Electrical Systems Concentration

The tentative course schedule listed below is a guide for those 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 Applied Calc I or MAP 3401 Problem Analysis 3/4 hrs
EET 4339C Antennas and Propagation 3 hrs
EET 4359C Digital Communications 4 hrs

Spring 15/16 hrs
MAC 2311 Calcul w/Anal Geom I 3 hrs
ETI 3651C Computer Application 3 hrs
EET 3503 Microcom Tech I 3 hrs
PHY 2054C/2049 Physics II 4 hrs
ETI 3671 Tech Economic Analysis 2 hrs

Summer 6 hrs
CET 4134C Microprocessor Elec II 3 hrs
ETI 4448 Applied Project Management 3 hrs
**ELECTRICAL ENGINEERING TECHNOLOGY (BSEE)**

**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

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
      - Prefer SPC 1015

   B. Cultural and Historical Foundations
      - 9 hrs
      - 1. MAC 1105
      - 2. STA 2023

   C. Mathematical Foundations
      - 1. MAC 2311
      - 2. STA 2023

   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 2233 or MAC 2233L Calculus I or equiv
   - MAC 2235 or MAC 2235L Calculus II or equiv
   - PHY 2053 or PHY 2053L Physics I/L

3. **Engineering Technology Core Requirements** (21 hrs)

   - BSC 1005L, BSC 1050L, GEO 1200L
   - ENC 3241 Writing for the Technical Professional
   - MAC 1105 College Algebra
   - MAC 1114 College Trigonometry
   - MAC 2233 or MAC 2233L Calculus I
   - MAC 2235 or MAC 2235L Calculus II
   - MAP 3401 Problem Analysis or
   - MAC 3212 Calculus II
   - PHY 2053C College Physics I
   - PHY 2054C College Physics II
   - ETG 3431 Applied Mechanics
   - ETI 3617 Technical Economic Analysis
   - ETI 3116 Applied Engnrng Quality Assurance
   - ETI 4448 Applied Project Management

4. **Technical Specialization** (60 hrs)

   - **Lower Level Required** (24 hrs)
     - CET 2364 System Applications in C
     - EET 1114C Analog Devices
     - EET 2142C Analog Circuits
     - EET 1025C Electrical Circuits
     - EET 3085C Electricity and Electronics
     - STA 2023 Statistical Methods I

   - **Upper Level Required Courses** (33 hrs)
     - EET 3716 Network Analysis
     - EET 4158C Linear Integrated Circuits

   - **Upper Level Electives** (3 hrs)

5. **Departmental Exit Requirement** (3 hrs)

   - EST 4254C Photonic Systems Analysis

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.

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: none

Transfer Notes:

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

**Tentative Course Schedule for the Electrical Systems Concentration**

The tentative course schedule listed below is a guide for those 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
  - EET 4548 Power Systems
  - EST 3222 Intro to Photonics
  - EST 3213 Photonics Simulation
  - EST 3211 Wave Photonics
  - EST 4236 Laser Systems Technology
  - EST 4227 Photonics Sensors and Devices
  - EST XXXX Manufacture of Photonics
  - EST 4256 Photonics Communication

- **Spring** 14/15 hrs
  - MAC 2252 Applied Calc I or
  - MAC 2253 or Calculus I
  - MAC 2312 Calculus II
  - ETG 3431 Applied Mechanics
  - ETG 3222 Intro to Photonics
  - PHY 2045C/2049 Physics II
  - EET 3716 Appl Eng Quality Assur
  - EET 4448 Applied Project Management

**Summer** 6 hrs

- EST 3116 Appl Eng Quality Assur
- EET 4448 Applied Project Management

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134 UNIVERSITY OF CENTRAL FLORIDA 2004-2005 Undergraduate Catalog
Elementary Education (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~elemed1

Program Coordinator: Dr. Robert Everett, Jr., ED 122-M
407-823-5788
E-mail: everett@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass four parts of the 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 (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      Select one: 3 hrs
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science 3 hrs
      Select one: 3 hrs
      ANT 2511 The Human Species or BSC 1005 Biological Principles
   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy 3 hrs
      Select one:
      ARH 2050 The History of Art I or ARH 2051 The History of Art II or
      MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or
      FIL 2400 History of Motion Pictures 3 hrs
   C. Mathematics (9 hrs)
      MAC 1115 College Algebra 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
      One of the following (per GEP) 3 hrs
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
      Select one:
      BSC 1005 Biological Principles 3 hrs
      One of the following (per GEP) 3 hrs
      ANT 2511 The Human Species or
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics

3. Education Preprofessional Requirements (4 hrs)
   MAE 2801 Elementary School Mathematics 4 hrs

4. Recommended Sequence

   Semester I 15 hrs
   EDG 4323 Professional Teaching Practices 3 hrs
   (required prior to Internship I)
   EDF 4214 Classroom Learning Principles 3 hrs
   LAE 4314 Children's Literature 3 hrs
   RED 3012 Foundations of Reading (required prior to Internship I)
   TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

   Semester II (Internship Block) 12 hrs
   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
   RED 4519 Diagnostic & Corrective Reading Strategies (PR: RED 3012) 3 hrs
   MAE 4326 How Children Learn Math 3 hrs
   EEX 4003 Teaching/Management Tech Ex Ed Student in the Regular Setting 3 hrs
   Summer 9 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
   Note: RED 4519, MAE 4526, and EEX 4003 are taken concurrently with EDE 3942

   Semester III 15 hrs
   SCE 3310 Teaching Science in the Elementary School 3 hrs
   SSE 3312 Teaching Social in the Elementary School 3 hrs
   LAE 4314 Teaching Language Arts in the Elementary School 3 hrs
   ARE 4313 Teaching Art in the Elementary School 3 hrs
   TSL 4141 Issues in Second Language Acquisition 3 hrs
   Semester IV 12 hrs
   EDE 4943 Internship II 12 hrs
   All methods/specialization/foundations courses (*) must be completed with a letter grade of "C" (1.75) or better before registering for Internship II
   See additional requirements listed under College of Education, Office of Clinical Experiences
   Satisfactory completion of Internship II requires the student to display successful practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

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

   6. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
UCF Degree Programs

- Complete an ESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

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

8. Total Semester Hours Required 128 hours

ENGINEERING TECHNOLOGY - DESIGN CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207
http://www.ent.ucf.edu

Coordinator: Lucy Morse 407-823-4742, Fax: 407-823-4746

Admission Requirements none

Degree Requirements
- Students should check with their ENT 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
      1. ENC 1101, ENC 1102
   B. Cultural and Historical Foundations 9 hrs
      1. MAC 1105
      2. STA 2023
   C. Social Foundations 6 hrs
      1. MAC 2311
      2. MAC 2312
   D. Science Foundations 4 hrs
      1. PHY 2053C
      2. BSC 1005, BSC 1050, or GEO 1200&L

2. Common Program Prerequisites (CPP) (6/8 hrs)
   - MAC 2523 or MAC 2311 Calculus I 3/4 hrs
   - MAC 2524 or MAC 2312 Calculus II or equiv 3/4 hrs
   - PHY 2053C or PHY 2048/L Physics I or equiv 4 hrs

3. Engineering Technology Core Requirements (20 hrs)
   - ANT 2511, BSC 1005, BSC 1050, GEO 1200, GEO 2370 or GLY 1030
      3/4 hrs
   - ENC 3241 Writing for the Technical Professional 3 hrs
   - MAC 1105 College Algebra 3 hrs
   - MAC 1114 College Trigonometry 3 hrs
   - MAC 2233 or MAC 2311 Calculus I 3 hrs
   - MAC 2312 Calculus II 3 hrs
   - MAP 3401 Problem Analysis or MAP 3402 3 hrs
   - PHY 2053C College Physics I 3 hrs
   - ECE 3541 Applied Mechanics 3 hrs
   - ETI 3651C Computer Applications 3 hrs
   - ETI 3671 Technical Economic Analysis 2 hrs
   - ETI 3811 Applied Engnrng Quality Assurance 3 hrs
   - ETI 4503 Technology Administration 3 hrs

4. Technical Specialization (61 hrs)
   - Lower Level Required and Elective Courses (28 hrs)
     EST 3543C Programmable Logic Controllers 3 hrs
     CHM 1322, CHM 3122 General Chemistry, Lab 4 hrs
     COP 3223 C Language or equiv 3 hrs
     EET 3085C Electricity and Electronics 4 hrs
     ENGR 1111C Eng Computer Graphics 2 hrs
     STA 2023 Statistical Methods I 3 hrs
   - Approved Lower Level Technical Electives 12 hrs
   - Upper Level Required Courses (21 hrs)
     EST 4502C Metrology & Instrumentation 4 hrs
     ETD 3550C Applied CADD 3 hrs
     ETD 3563C Applied Engnrng Strength of Materials 3 hrs
     ETI 3421 Materials & Processes 3 hrs
     ETM 4220 Applied Energy Systems 4 hrs
     ETI 4448 Applied Project Management 3 hrs
   - Upper Level Technical Elective (Select 4) (12 hrs)
     ETD 4206 Construction Estimating 3 hrs
     ETD 4241C Construction Materials & Methods 3 hrs
     ETD 4242 Construction Contracts & Specs 3 hrs
     ETD 4243 Building Systems 3 hrs
     ETC 4414C Applied Structural Design I 3 hrs
     ETC 4415C Applied Structural Design II 3 hrs
     ETC 4331C Applied Fluid Mechanics 4 hrs
     ETC 4512C Applied Design of Machine Elements 3 hrs
     ETI 3418C Computer Numerical Controls 3 hrs

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

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

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

8. University Minimum Graduation Requirements
   - A 2.0 UCF GPA
   - 60 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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.
- UCF ENGR 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 engi-
neering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

### Junior Year

**Fall** | 13/14 hrs | **Spring** | 13 hrs |
---|---|---|---|
MAC 2233/2211 Calculus I | 3/4 | MAP 3401 Problem Analysis | 4 |
ETI 3651C Computer Appl 3 | 3 | ETM 4220 Energy Systems | 3 |
ETI 3116 App Eng Qual Assur 3 | 3 | STA 2023 Statistical Methods I | GEP |
PHY 2053C/2048 Physics I 3 | 4 | ETC 4241 Tech Report Writ 3 |

**Summer** | 10 hrs |
ETC/ETI Elective 3 | |
ETM 4331C Appl Fluid Mech 4 | |
ETI 4448 Applied Proj Mgmt 3 | |

**Senior Year** | 15 hrs | **Spring** | 16 hrs |
ETI 3421 Materials & Processes | 3 | EST 4502C Metro I Instr | 4 |
EST 3543C Prog Log Controllers | 3 | ETG 4950C Sr Design Proj | 3 |
ETG 3541 App Mechanics | 3 | ETC 4242 Contract & Spec | 3 |
ETC 4241C Construction Meth | 3 | ETI 3533C Eng Strength of Mat | 4 |
ENC 3241 Tech Report Writ 3 | | ENC 3241 Writing for the Technical Professional 3 |

### 1. UCF General Education Program (38 hrs)

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>ENC 1101L, ENC 1102</td>
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</tr>
<tr>
<td>Prefer: SPC 1016</td>
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<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
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<tr>
<td>MAC 1105</td>
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<tr>
<td>STA 2023</td>
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</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1101, ENC 1102</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
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<tr>
<td>ENC 1101, ENC 1102</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>4 hrs</td>
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<tr>
<td>PHY 2053C</td>
<td></td>
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<tr>
<td>BSC 1050L &amp; BSC 1050L or GEO 1200L</td>
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### 2. Common Program Prerequisites (CPP) (6/8 hrs)

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<tr>
<th>Component</th>
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<tbody>
<tr>
<td>MAC 2253 or MAC 2311</td>
<td>3/4 hrs</td>
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<tr>
<td>MAC 2254 or MAC 2312</td>
<td>3/4 hrs</td>
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<td>PHY 2053C or PHY 2048L</td>
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### 3. Engineering Technology Core Requirements (20 hrs)

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<tbody>
<tr>
<td>ANT 2511, BSC 1101, GEO 1200, GEO 2370, or GLY 1030</td>
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<tr>
<td>ENC 3241 Writing for Technical Professional</td>
<td>3 hrs</td>
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<td>MAC 1105</td>
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<td>MAC 1114</td>
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<tr>
<td>MAC 2253 or MAC 2311</td>
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<tr>
<td>MAP 3401 Problem Analysis or PHY 2053C</td>
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</tr>
<tr>
<td>PHY 2053C College Physics I</td>
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<tr>
<td>ETG 3541 Applied Mechanics</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EST 3651C Computer Applications</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 3671 Technical Economic Analysis</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ETI 3116 Applied Engineering Quality Assurance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4635 Technology Administration</td>
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### 4. Technical Specialization (61 hrs)

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EST 3543C Programmable Logic Controllers</td>
<td>3 hrs</td>
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<tr>
<td>CHM 1032, 1032L General Chemistry Lab</td>
<td>4 hrs</td>
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<tr>
<td>COP 3223 C Language or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 3085C Electricity and Electronics</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EGN 1111C Eng Computer Graphics</td>
<td>2 hrs</td>
</tr>
<tr>
<td>STA 2023 Statistical Methods I</td>
<td>GEP</td>
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<tr>
<td>Approved Lower Level Technical Electives</td>
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### Upper Level Required Courses (16 hrs)

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<tbody>
<tr>
<td>ETI 4640 Process Planning &amp; Work Measurement</td>
<td>3 hrs</td>
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<tr>
<td>ETD 2300C Applied CAD</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 3421 Materials &amp; Processes</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETM 4220 Applied Energy Systems</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ETI 4448 Applied Project Management</td>
<td>3 hrs</td>
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### Upper Level Technical Elective (Select 5) (17 hrs)

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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETI 3460 Technical Sales</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4186 Applied Reliability</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4205 Applied Logistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETG 3533C Applied Eng Strength of Materials</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ETI 4661C Applied Facilities Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4700 Occupational Safety</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4502C Metrology &amp; Instrumentation</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ETI 4531C Applied Fluid Mechanics</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ETI 3418C Computer Numerical Controls</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 5. Departmental Graduation Requirement (3 hrs)

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETG 4950C Senior Design Project</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 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 2048L and 2049L 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...
UFC Degree Programs

Engineering degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall | 13/14 hrs | Spring | 13 hrs
--- | --- | --- | ---
MAC 2233 Calculus I 3/4 | MAP 3401 Problem Analysis 3 | PHY 2053C Calculus I 3
PHY 2053C Calculus I 3 | MAP 3401 Problem Analysis 3 | MAC 2311 Calculus I 3
ETI 3516 Comp Appl 3 | MTH 3411 Engineering Mechanics 3 | MAC 2312 Calculus II 3
ETI 4640 Proc Plan & Wk 3 | MTH 3411 Engineering Mechanics 3 | MAC 2312 Calculus II 3
Senior Year

Fall | 14 hrs | Spring | 13 hrs
--- | --- | --- | ---
ETI 3421 Matrls & Process 3 | ENC 3241 Tech Report Writ 3 | ETI 4640 Appl Proj Mgmt 3
ETI 4205 App Logistics 3 | ETI 4590 Sr Design Proj 3 | ETI 3116 Appl Engr Qual Assur 3
ETD 3350C Appl CAD 3 | ETI Elective 3 | ETI 3651C Eng Strength Mat'l 4
ETI 3671 Tech Econ Anal 2 | | |

1. UCF General Education Program (38 hrs)

A. Communication Foundations
   ENC 1101, ENC 1102

B. Cultural and Historical Foundations
   STA 2023

C. Mathematical Foundations
   STA 2023

D. Social Foundations
   STA 2023

E. Science Foundations
   PHY 2053C

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

A. Calculation
   MAC 2323 Calculus I 3/4

B. Physics I/II
   PHY 2053C or PHY 2048/L

3. Engineering Technology Core Requirements (23 hrs)

A. Astronomy
   AST 2002

B. Writing for the Technical Professional
   ENC 3241

C. College Algebra
   MAC 1105

D. College Trigonometry
   MAC 1114

E. Calculus I
   MAC 2311 or

F. Problem Analysis
   MAP 3401 or

G. Calculus II
   MAC 2312

4. Technical Specialization (58 hrs)

A. Engineering Technology - Space Systems Concentration (B.S.E.T.)

B. Communication Foundations
   ENC 3241

C. Upper Level Technical Electives (Select 12 hrs)

D. Engineering Technology Core Requirements
   PHY 2053C

E. Engineering Technology - Space Systems Concentration (B.S.E.T.)

F. Upper Level Required and Elective Courses (21 hrs)

G. Engineering Technology - Space Systems Concentration (B.S.E.T.)

H. Applied Project Management
   ETI 4448

I. Technical Report Writing
   ENC 3241

J. Technical Paper Writing
   ENC 3241

K. Technical Communication
   ENC 3241

L. Technical Writing
   ENC 3241

M. Technical Communication
   ENC 3241
Tentative Course Schedule for the Space Systems Concentration

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

Junior Year

Fall 15/16 hrs Spring 14 hrs
MAC 2233/2311 Calculus I 3/4 MAP 3401 Problem Analysis 3
ETD 3350C Appl CAD 3 ETM 4220 Energy Systems 4
ETI 3116 App Eng Qual Assur 3 ETG 3533C Eng Strength of Mat 4
EST 3543C Prog Log Control 3 ETG 3541 Appl Mechanics 3
ETI 4836 Space Systems Tech 3

Summer 8 hrs
ENC 3241 Tech Report Writing 3
ETI 3671 Tech Econ Analysis 2
ETI Elective 3

Senior Year

Fall 13 hrs Spring 13 hrs
ETI Elective 3 EST 4502C Metro I Instr 4
ETI 3085C Elect & Electronics 4 ETI 4959C Sr Design Proj 3
ETI Elective 3 ETI Elective 3
ETI 4835 Tech Admin 3

ENGLISH - CREATIVE WRITING (B.A.)

College of Arts and Sciences
English Department, CNH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
J. Fernandez, 407-823-2212

Admission Requirements

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in the major without prior approval from the department
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in English Degree: Additional Requirements (9 hrs)
- Application and admission through the English Honors Committee and the Honors College
- Fulfill University requirements for Honors in the Major
- Grade of “B” (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      - Select SPC 1000 Fund of Oral Com
      - 3 hrs
   B. Cultural and Historical Foundations
      - 9 hrs
   C. Mathematical Foundations
      - Select MGF 1106 Finite Mathematics
      - (may substitute a higher level math)
      - Prefer STA 1060C Statistics Using Excel
      - 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites
   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 ENG, ENL, or LIT courses

4. Restricted Electives (30 hrs)

Choose four of the following: 12 hrs
   ENL 2012 English Literature I
   ENL 2021 English Literature II
   AML 3031 American Literature I
   AML 3561 American Literature II
   ENL 4331 Chaucer
   ENL 4333 Shakespeare
   ENL 4341 Milton and His Age
   or any approved literary history course with a prefix of AML, ENL, or LIT; at least one of which focuses entirely on early literature (pre-1865)

Choose one of the following: 3 hrs
   LIN 3010 Intro to Linguistics
   LIN 4100 History of the English Language
   LIN 4643 Cross Communication Culture
   LIN 4680 Modern English Grammar
   ENC 3211 Theory and Practice of Tech Writing
   ENC 3241 Writing for the Technical Professional
   ENC 3310 Magazine Writing I
   ENC 3311 Advanced Expository Writing
   ENG 3010 Practical Criticism
   LIT 4554 Advanced Feminist Theory

Choose two of the following: 6 hrs
   CRW 3120 Fiction Writing Workshop
   CRW 3211 Creative Nonfiction Writing
   CRW 3310 Poetry Writing Workshop
   CRW 4224 Adv Creative Nonfiction Writing
   CRW 4228 Advanced Writing Seminar
   CRW 4232 Adv Poetry Writing Workshop
   CRW 4244 Adv Creative Nonfiction Writing
   CRW 4271 Adv Writing Seminar
   CRW 4994 Adv Writing Workshop
   CRW 4998 Adv Writing Workshop

Choose one of the following: 3 hrs
   CRW 3311 Structure of Verse
   CRW 3410 Writing Scripts
   CRW 3540 Literary Magazines
   CRW 4114 History of Prose Style
   or any 3000 or 4000 CRW course not used to fulfill another requirement

5. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in upper division required courses
   - Computer Competency met by completion of CRW 3013

6. Foreign Language Requirements (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 Foreign 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.

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: Technical Writing, Literature
Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

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

Acceptable Substitutes for common program prerequisites to the BA in Creative Writing if taken prior to transferring to UCF:
- ENC 1101* & 1102*: may use any two lower level courses,
taught in the English Department, and each having a 6,000 word requirement. ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

**ENGLISH - LITERATURE (B.A.)**

**College of Arts and Sciences**

**English Department, CNH 301,**

[link]

E-mail: english@ucf.edu

J. Fernandez, 407-823-2212

**Admission Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit is not accepted in the major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

**Honors in English Degree:**

- Additional Requirements (9 hrs)
  - Application and admission through the English Honors Committee and the Honors College.
  - Fulfill University requirements for Honors in the Major.
  - Grade of "B" (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
  - Successful completion and oral defense of honors thesis.

**1. UCF General Education Program (36 hrs)**

A. Communication Foundations
   - Select SPC 1600 Fund of Oral Com 3 hrs
B. Cultural and Historical Foundations
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
C. Mathematical Foundations
   - Select SPC 1600 Fund of Oral Com 3 hrs
D. Social Foundations
   - Select ENG 3014 Theory & Tech of Literary Study 3 hrs
E. Science Foundations
   - Select ENG 3014 Theory & Tech of Literary Study 3 hrs

**2. Common Program Prerequisites**

ENC 1101* Composition I GE

**3. Core requirements** (15 hrs)

Choose five literary history courses, two of which must focus entirely on early literature (pre-1865). Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

**AML 3031** American Literature I
**AML 3051** American Literature II
**AML 3283** Contemp American Women’s Fiction
**AML 3613** Narratives of Slavery
**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 4154** Modern American Poetry
**AML 4261** Literature of the South
**AML 4265** Florida Writers
**AML 4321** Modern American Literature
**ENC 1101** Composition I
**ENC 1102** Composition II

*See Transfer Notes for possible substitutes.

**Total Semester Hours Required**

120 hours

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

ENG 3014 Theory & Tech of Literary Study 3 hrs

This is a prerequisite for all 4000 level AML, ENL, or LIT courses.

**Choose one of the following gateway courses:**

CRW 3013 Creative Writing for English Majors 3 hrs

Choose one single author or major author course 3 hrs

*Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

**ENL 4311** Chaucer
**ENL 4341** Milton
**ENL 4351** Shakespeare

Choose three upper level courses: 9 hrs

AML, ENL, or LIT prefix

**5. Departmental Exit Requirements**

- Maintain a minimum GPA of 2.0 in upper division required courses.
- Computer Competency met by completion of ENG 3014.

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

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to three semesters 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. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

**7. Electives (variable)**

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

**8. University Minimum Exit Requirements**

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

**Related Programs:** Creative Writing, Technical Writing

**Related Minors:** Creative Writing, Linguistics, Literature, Technical Writing, Writing

**Transfer Notes:**

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

**Acceptable Substitutes** for common program prerequisites to the BA in Literature if taken prior to transferring to UCF:

- 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 - TECHNICAL WRITING (B.A.)

College of Arts and Sciences
English Department, CNH 301
http://english.ucf.edu

E-mail: english@ucf.edu
J. Fernandez, 407-823-2212

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in English Degree: Additional Requirements (9 hrs)
- Application and admission through the English Honors Committee and the Honors College.
- Fulfill University requirements for Honors in the Major.
- Grade of “B” (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations: 9 hrs
     - Select SPC 1600 Fund of Oral Com 3 hrs
   - B. Cultural and Historical Foundations: 9 hrs
     - Select ENC 1101 Composition I 3 hrs
   - C. Mathematical Foundations: 6 hrs
     - Select MGF 1106 Finite Mathematics 3 hrs
   - D. Social Foundations: 6 hrs
     - Select ENL 2021 English Literature II 3 hrs
   - E. Science Foundations: 6 hrs
     - Select ENC 1102 Composition II 3 hrs

2. Common Program Prerequisites
   - ENC 1101* Composition I GEP
   - ENC 1102* Composition II GEP

*See Transfer Notes for possible substitutes

3. Core courses-Basic (15 hrs)
   - ENC 3211 Theory & Practice of Tech Writing 3 hrs
   - Choose one of the following: 3 hrs
     - ENG 3014 Theory & Tech of Literary Study
     - CRW 3013 Creative Writing for English Majors
   - Choose three of the following: 9 hrs
     - ENL 2012 English Literature I
     - ENL 2021 English Literature II
     - AML 3033 American Literature I
     - AML 3051 American Literature II

4. Core requirements-Advanced (24 hrs)
   - ENC 3311 Advanced Expository Writing 3 hrs
   - ENC 4203 Technical Documentation I 3 hrs
   - ENC 4294 Technical Documentation II 3 hrs
   - ENC 4295 Technical Documentation III 3 hrs
   - ENC 4218 Techniques of Tech Publication 3 hrs
   - ENC 4239 Visual Elements in Documentation 3 hrs
   - ENC 4280 Technical Writing Style 3 hrs
   - LIT 4433 Technical and Sci Literature 3 hrs

5. Restricted Upper Division Electives (3 hrs)
   - Choose one of the following:
     - ENC 4414 Studies in Hypertext
     - ENC 4282 International Technical Communication
     - ENC 4205 Writing for the Computer Industry
     - Optional course
     - ENC 4914 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 Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

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

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

Total Semester Hours Required: 120 hours

Related Programs: Creative Writing, Literature
Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

UCF Degree Programs

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 four parts of the 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 Fund of Oral Com
   - 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
     - STA 1060C Basic Statistics using MS Excel or
UCF Degree Programs

1. UCF General Education Program for (38 hrs)

1.1. Social Foundations (6 hrs)
   - POS 2041 American National Government (3 hrs)
   - PSY 3712 General Psychology (3 hrs)

1.2. Science Foundations (6 hrs)
   - PSC 1121 Physical Science (3 hrs)
   - Select one:
     - ANT 2511 The Human Species (3 hrs)
     - BSC 1005 Biological Principles

1.3. Mathematics (9 hrs)
   - MAC 2311 Calculus I (3 hrs)
   - MAC 2312 Calculus II (3 hrs)
   - MAC 2313 Calculus III (3 hrs)

1.4. Languages (9 hrs)
   - ENL 1021 English I to 1798 (3 hrs)
   - ENL 1022 English II to 1837 (3 hrs)
   - ENL 2012 English Literature I (3 hrs)
   - ENL 2021 Language & Composition I (3 hrs)

1.5. Social Science/History (12 hrs)
   - AMH 2010 U.S. History I (3 hrs)
   - AMH 2020 U.S. History II (3 hrs)
   - EDF 4603 Community Development (3 hrs)
   - EDF 4604 Community Planning and Development (3 hrs)
   - EDF 4605 Social Policy and Administration (3 hrs)
   - EDF 4606 Social Policy and Administration (3 hrs)

1.6. Education Core Requirements (15 hrs)
   - EDF 4223 Professional Teaching Practices (3 hrs)
   - EDF 4214 Classroom Learning Principles (3 hrs)
   - TSL 4080 Theory and Practice of Teaching ESOL (3 hrs)
   - TSL 4141 Issues in Second Language Acquisition (3 hrs)

1.7. Program Core Requirements (13 hrs)
   - LAE 4464 Adolescent Lit (3 hrs)
   - LAE 4361 Literacy Strategies for Mid/High Schools (3 hrs)
   - LAE 4360 Eng Instructional Analysis (4 hrs)
   - LAE 4342 Teaching Landing (3 hrs)

1.8. Internship I (ESE 3940) (3 hrs)
   - Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

1.9. Internship II (ESE 4943) (12 hrs)
   - All methods courses and at least 80% of all specialization courses must be completed before registering for Internship II

2. 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.)

3. Specialization Requirements (24 hrs)
   - Specialization requirements total 30 hours, but LIT 2110 and ENL 2012 account for 6 hours.
   - LIT 2120 World Literature (3 hrs)
   - ENL 2012 English Literature I to 1798 (3 hrs)

4. Education Core Requirements (15 hrs)
   - EDF 4223 Professional Teaching Practices (3 hrs)
   - EDF 4241 Classroom Learning Principles (3 hrs)
   - TSL 4080 Theory and Practice of Teaching ESOL (3 hrs)
   - TSL 4141 Issues in Second Language Acquisition (3 hrs)

5. Program Core Requirements (13 hrs)
   - LAE 4464 Adolescent Lit (3 hrs)
   - LAE 4361 Literacy Strategies for Mid/High Schools (3 hrs)
   - LAE 4360 Eng Instructional Analysis (4 hrs)
   - LAE 4342 Teaching Landing (3 hrs)

6. Internship I (ESE 3940) (3 hrs)

Prerequisites: EDF 4232, EDF 4214, and LAE 4464
Corequisites: LAE 4360 and LAE 4342
See additional requirements under College of Education, Office of Clinical Experiences

7. Internship II (ESE 4943) (12 hrs)
   - All methods courses and at least 80% of all specialization courses must be completed before registering for Internship II
   - See additional requirements under College of Education, Office of Clinical Experiences

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

9. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   - Complete an ESOL notebook as required for ESOL Endorsement.
   - Pass all applicable sections of the Florida Teacher Certification Examination.

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

11. Total Semester Hours Required 128 hours

ENVIRONMENTAL ENGINEERING (B.S.Env.E.)
College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE),
ENG2 211, 407-823-2841, Fax: 407-823-3315,
http://www.cee.engr.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)
   - 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 ENG 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 3023 (3 hrs).

Note: STA 3023 is the prerequisite for this course.

D. Social Foundations 6 hrs

1. Take ECO 2013 or ECO 2023.

E. Science Foundations 7 hrs

1. Take PHY 2048/48L.
2. Take one from Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050).

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

- MAC 2311  Calculus with Analytic Geometry I  4 hrs
- MAC 2312  Calculus with Analytic Geometry II  4 hrs
- MAC 2313  Calculus with Analytic Geometry III  4 hrs
- PHY 2048/48L  Physics for Engineers & Scientists I GEP
- PHY 2049/49L  Physics for Engineers & Scientists II  4 hrs
- ENC 1101  Composition I GEP
- ENC 1102  Composition II GEP
- Humanities Courses GEP
- Social Science Courses GEP
- Humanities or Social Sciences GEP

3. Courses Required for the Major (60 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with 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  4 hrs
- PHY 2048/48L  Physics for Engineers & Scientists I GEP
- 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
- EES 4202C  Chemical Process Control  3 hrs
- EES 4111C  Biological Process Control  3 hrs
- EGN 3613  Engineering Economic Analysis  2 hrs
- EGN 3343  Thermodynamics  3 hrs
- EGN 3373  Engineering Economic Analysis  2 hrs
- EGN 4006C  Intro to the Construction Industry  1 hr
- ENV 3001  Intro to Environmental Engineering  3 hrs
- STA 3302  Probability & Statistics for Engineers GEP
- CWR 3201  Engineering Fluid Mechanics  3 hrs
- CWR 4101C  Hydrology  3 hrs
- CWR 4203C  Hydraulics  3 hrs
- EES 4111C  Biological Process Control  3 hrs
- EES 4202C  Chemical Process Control  3 hrs
- ENV 4120  Air Pollution Control  3 hrs
- ENV 4341  Solid Waste Management  3 hrs
- ENV 4561  Environmental Eng'ng-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 BSEnVEnE 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 EnVEn Design Course I 3 hrs
- Approved EnVEn 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 EnVEn Design Courses.

- EnVEn 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 maximum of 45 hours 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**

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**FOURTH YEAR**

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UCC Degree Programs

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.

EXCEPTIONAL STUDENT EDUCATION (B.S.)
Department of Child, Family and Community Sciences
ED 209
http://www.edcollege.ucf.edu/
Program Coordinator: Dr. Lee Cross
ED 315-N, 407-823-5477
E-mail: lcross@mail.ucf.edu

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass four parts of the CLAST examination (no alternatives or waivers are accepted)
- Complete common program prerequisite courses

Degree Requirements:
- Students should consult with an advisor
- Students must earn at least a “C-” (1.75) in each required Exceptional Education course
- The courses designated in 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations (9 hrs)
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations* (9 hrs)
AMH 2010 U.S. History 1492-1877 3 hrs
AMH 2020 U.S. History 1877-present 3 hrs
PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundations* (6 hrs)
MGF 1106 Finite Mathematics 3 hrs
Select one: 3 hrs
STA 1060C Basic Statistics using MS Excel or
STA 2014C Principles of Statistics
D. Social Foundations (6 hrs)
PSC 2041 American National Government 3 hrs
PSY 2012 General Psychology 3 hrs
E. Science Foundations (6 hrs)
PSC 1121 Physical Science 3 hrs
Select one: 3 hrs
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 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 2090 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
Select 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

Note: See laboratory component under Section 2.

3. Exceptional Education Preprofessional Requirements (7 hrs)
EDG 4323 Professional Teaching Practices 3 hrs
EDG 4603 Analysis of Critical Issues in Education 3 hrs
EDG 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 4233 Professional Teaching Practices 3 hrs
RED 3012 Basic Foundations of Reading 3 hrs
RED 4043 Content Reading K-12 3 hrs
RED 3012 Basic Foundations of Reading 3 hrs
RED 3241 Methods of Academic Skills Ex Ed 3 hrs

5. Specialization Core Requirements (33 hrs)
EEX 4001 Introduction to Special Education 3 hrs
EEX 4001 Introduction to Special Education 3 hrs
EEX 4001 Introduction to Special Education 3 hrs
EEX 4001 Introduction to Special Education 3 hrs
EEX 4001 Introduction to Special Education 3 hrs

6. Specialization (5 hrs)
EEX 4045 Application and Theories for Teachers 2 hrs
EEX 4046 Curriculum and Instructional Strategies for Special Needs Students 3 hrs

Internship Requirements:
EEX 3940 Internship I 3 hrs
EEX 4843 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.
1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   - FIL 1007: Foundations of Story (3 hrs)
   - FIL 2274C: Editing I (3 hrs)
   - FIL 2220: Directing I (3 hrs)
   - FIL 2200: Cinematography I (3 hrs)
   - FIL 2221: Acting for Film (3 hrs)

2. Common Program Prerequisites (3 hrs)
   - FIL 2400: History of Motion Pictures (3 hrs)

3. Lower Level Core Requirements (18 hrs)
   - FIL 2107: Script Analysis (3 hrs)
   - FIL 1008: Cinematic Expression/Aesthetic (3 hrs)
   - FIL 2274C: Editing I (3 hrs)
   - FIL 2220: Directing I (3 hrs)
   - FIL 2200: Cinematography I (3 hrs)
   - FIL 2221: Acting for Film (3 hrs)

4. Upper Level Core Requirements (36 hrs)
   - FIL 3922: Film Colloquium (6 hrs)
   - FIL 3201C: Intro to Film Production (3 hrs)
   - FIL 3401: Film History I (3 hrs)
   - FIL 3402: Film History II (3 hrs)
   - FIL 3211: Sound Design I (3 hrs)
   - FIL 4208C: Directing II (3 hrs)
   - FIL 3503C: Film Theory and Criticism I (3 hrs)
   - FIL 3124: Short Script I (3 hrs)
   - FIL 4604: The Film Producer (3 hrs)
   - FIL 4607: Film Production Management (3 hrs)

   Select one course:
   - FIL 3125: Short Script II (3 hrs)
   - FIL 4111C: Feature/TV Writing (3 hrs)

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 (3 hrs)
     - FIL 4223: Design for Film (3 hrs)
     - FIL 4210C: Cinematography II (3 hrs)
     - FIL 4212C: Sound Design II (3 hrs)
     - FIL 4213: Sound Design III (3 hrs)
     - FIL 4213C: Editing II (3 hrs)
     - FIL 3300C: Film Documentary (3 hrs)
     - FIL 4229: Directing III (3 hrs)
     - FIL 4203C: Capstone I (3 hrs)
     - FIL 4211C: Capstone II (3 hrs)

   - Screen Writing
     - FIL 4103: Adaptation (3 hrs)
     - FIL 4112C: Feature/TV Writing II (3 hrs)
     - FIL 4113C: Interactive Writing I (3 hrs)
     - FIL 4114C: Interactive Writing II (3 hrs)
     - FIL 4504C: Genre Writing (3 hrs)

   - Cinema Studies
     - FIL 3520: Italian Film (3 hrs)
     - FIL 3521: French Film (3 hrs)
     - FIL 3522: German Film (3 hrs)
     - FIL 3XXX: American Cinema (3 hrs)
     - FIL 3412: Black Cinema (3 hrs)
     - FIL 3309: Women in Film (3 hrs)
     - FIL 3504C: Film Theory and Criticism I (3 hrs)
     - FIL 3504C: Film Theory and Criticism II (3 hrs)

   - Digital Cinema
     - ART 2820: Art as Interface (3 hrs)
     - ART 3613C: Post-Production Design (3 hrs)
     - FIL 3624: Converging Media (3 hrs)
     - IDS 3367C: Digital Imagery (3 hrs)
     - IDS 3701C: Internet Software Design (3 hrs)
     - IDS 4681: Modeling for Realtime Graphics (3 hrs)
     - MUC 3311: MIDI Sequencing I (3 hrs)
     - COP 3502C: Computer Science I (3 hrs)
     - ENC 4415: Digital Rhetoric & Modern Dialectic (3 hrs)

6. Capstone Courses (6 hrs)
   - FIL 4203C: Capstone I (3 hrs)
   - FIL 4211C: Capstone II (3 hrs)

7. Departmental Exit Requirements
   - A student must maintain an overall average of “B” (3.0) or better in major courses.
   - Computer competency met by CGS 1060 or STA 1060.
   - 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 residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Digital Media, Music, Theatre, Radio/TV, World Cinema

Related Minors: Art, Cinema Studies, Creative Writing, Digital Media, Music, Theatre

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

Acceptable substitutes for Common Program Prerequisites
- FIL 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
E-mail: film@mail.ucf.edu
Division Head: Phil Peters, 407-823-0091

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 counted 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 2 semester sequence
      Select FIL 2400 History of Motion Pictures 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
      Prefer CGS 1060C Intro to Computer Sci or STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
   - FIL 2400 History of the Motion Pictures GEP 3 hrs
   - FIL 1007 Foundations of Story 3 hrs

3. Core Requirements (48 hrs)
   - FIL 2107 Script Analysis 3 hrs
   - FIL 2201 Foundations of Production 3 hrs
   - FIL 3124 Short Script or FIL 3102 Writing for Film and TV 3 hrs
   - FIL 3006 Art of the Cinema 3 hrs
   - FIL 3252C Cinematic Expression/Aesthetics 3 hrs
   - FIL 3300C Film Documentary 3 hrs
   - FIL 3503C Film Theory and Criticism I 3 hrs
   - FIL 3504C Film Theory and Criticism II 3 hrs
   - FIL 3401 Film History I 3 hrs
   - FIL 3402 Film History II 3 hrs
   - FIL 3XXX American Cinema 3 hrs
   - FIL 3510 World Cinema Traditions 3 hrs
   - FIL 3299 Cinema Director 3 hrs
   - FIL 4XXX Genre Aesthetics 3 hrs
   - FIL 4XXX Cinema Criticism (writing) 3 hrs
   - FIL 4604 The Film Producer 3 hrs

4. Restricted Upper Division Electives (12 hrs)
   Select from the following upper level FIL courses:
   - FIL 3520 Italian Film
   - FIL 3521 French Film
   - FIL 3522 German Film
   - FIL 3412 Black Cinema
   - FIL 3309 Women in Film
   - FIL 4506 Independent Study
   - FIL 3410 History of Animated Films
   - FIL 3XXX International Cinema
   - FIL 3625 Interactive Entertainment
   - FIL 3624 Converging Media
   - FIL 5609 Film and Internet Business
   (a maximum of 6 hours Independent Study may be used)

5. Required Minor (18 hrs minimum)
   Must be taken outside the Film Department

6. Departmental Exit Requirements
   - A student must maintain an overall average of "B" (3.0) or better in major courses.
   - Computer competency met by CGS 1060 or STA 1060.

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 hours

Related Programs: Animation, Art, Cinema Studies, 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.
Limited Division Head
E-mail: film@mail.ucf.edu

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: Phil Peters, 407-823-0091

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 2-semester sequence 6 hrs
      Select FIL 2400 History of Motion Pictures 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics 3 hrs
      (May substitute a higher level math)
      Prefer CGS 1060 Intro to Computer Sci or STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Requirements (3 hrs)
   FIL 2400* History of Motion Pictures GEP
   FIL 2300* History of Motion Pictures
   FIL 2107* Script Analysis
   *See transfer notes for possible substitutions

3. Lower Level Core Requirements (18 hrs)
   FIL 1007 Foundations of Story 3 hrs
   FIL 1008* Film, Television, and Society 3 hrs
   FIL 2107* Script Analysis CPP
   FIL 2201* Foundations of Production 3 hrs
   FIL 2XXX Documentary Vision 3 hrs
   FIL 2XXX Pre-production & Project Development 3 hrs
   FIL 2XXX Documentary Production 3 hrs

4. Upper Level Core Requirements (39 hrs)
   FIL 3510 Worlds of Cinema Traditions 3 hrs
   FIL 3922 Film Colloquium 6 hrs
   (Six semesters of colloquium required at 1 hr each)
   FIL 3XXX Film Marketing, Distribution & Exhibition 3 hrs
   FIL 3401* Film History I 3 hrs
   FIL 3402* Film History II 3 hrs
   FIL 3502C Film Theory and Criticism I 3 hrs
   FIL 3504C Film Theory and Criticism II 3 hrs
   FIL 4604 The Film Producer 3 hrs
   FIL 3XXX Docudrama 3 hrs

5. Upper Level Restricted Electives (24 hrs)
   FIL 4XXX Documentary Workshop I 3 hrs
   FIL 4XXX Documentary Workshop II 3 hrs
   FIL 4XXX Documentary Field Production 6 hrs
   FIL 4XXX Documentary Media New Applications 3 hrs
   FIL 4XXX Image/Text Culture 3 hrs
   FIL 4XXX Cinemas of African Diaspora 3 hrs
   FIL 4607 Film Production Management 3 hrs

6. Departmental Exit Requirements
   - A student must maintain an overall average of "B" (3.0) or better in courses within the major.
   - Computer competency met by CGS 1060 or STA 1060.
   - Department of Film requires a passing grade on an exit examination.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (Variable)
   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

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

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Film, Digital Media, Music, Radio/TV, Theatre.
Related Minors: Cinema Studies, Creative Writing, Digital Media, African American Studies, Women Studies, Latin American Studies, Asian Studies

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

Acceptable Substitutes for Common Program Prerequisites
- FIL 2400 may substitute FIL 1001, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory Film writing course. However FIL 1007 is a prerequisite for all major courses and must be taken.

FINANCE (B.S.B.A.)
College of Business Administration
BAZ 101, 407-823-2184
http://www.bus.ucf.edu/finance

Admissions Requirements
- Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 3 hrs
   Select MAC 1105 College Algebra 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 Microeconomics
ECO 2023 Macroeconomics
ACG 2071 Principles of Managerial Accounting
*ECO 3401 Quantitative Business Tools I

3. Required for All Business Majors (30 hrs)

Common Body of Knowledge

First Semester in the College of Business Administration:
- GEB 3031 Cornerstone
- GEB 3356 Introduction to International Business (3 hrs)

First or subsequent semesters depending on major:
- BUL 3130 Legal & Ethical Environments of Business
- ECO 3411 Quantitative Business Tools II
- FIN 3433 Business Finance
- MAN 3025 Management of Organizations
- ISM 3011 Essentials of Management Information Systems
- MAR 3023 Marketing

Last Semester:
- MAN 4720 Strategic Management (3 hrs)

4. Special College and/or Department Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or better transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- The Finance Major Curriculum consists of 27 semester hours in addition to FIN 3403. Students are required to earn a grade of "C" (2.0) or better in FIN 3403 and all other classes taken toward the major and to have at least a 2.0 overall average.
- FIN 3403 Business Finance is prerequisite to all finance courses except FIN 2104, REE 3043, & REE 3433.
- Students wanting to major in Finance must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

5. Required Courses

- FIN 3303 Financial Markets (3 hrs)
- FIN 3414 Intermediate Corporate Finance (3 hrs)
- FIN 3504 Investment Analysis (3 hrs)
- FIN 4453 Financial Models (3 hrs)
- Select two of the following:* FIN 4513 Management of Financial Institutions (3 hrs)
- FIN 4524 Commercial Bank Management (3 hrs)
- FIN 4514 Portfolio Analysis and Management (3 hrs)
- FIN 4521C Applied Portfolio Management I (3 hrs)
- FIN 4522C Applied Portfolio Management II (3 hrs)
- FIN 4533 Speculative Financial Markets (3 hrs)
- FIN 4604 International Financial Management (3 hrs)
- FIN 4424 Adv Topics in Financial Management (3 hrs)
- REE 4204 Real Estate Finance (3 hrs)
- REE 4303 Real Estate Investment Analysis (3 hrs)

6. Restricted Electives

Select three of the following:* ACG 3131 Financial Accounting Concepts (3 hrs)
- ACG 3141 Intermediate Financial Accounting (3 hrs)
- ACG 3361 Intermediate Managerial Accounting (3 hrs)
- ACG 4401 Accounting Information Systems (3 hrs)
- ECO 4112 Economic Statistics & Econometrics (3 hrs)
- ECP 4403 Bus, Government, & Industrial Orgs (3 hrs)

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
- 30 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives***

As necessary to result in 120 total credit hours

Total Semester Hours Required: 120 hours
## UCF Degree Programs

### Foreign Language Combination (B.A.)

**College of Arts and Sciences**

**Department of Foreign Languages & Literatures, CNH 523**

**E-mail:** foreignlanguage@ucf.edu  
C. E. Stebbins, 407-823-2472

### Admission Requirements

- **Placement in Language courses**  
  - Placement in Foreign language courses is based on one year of high school language being equivalent to one semester of college work. 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.  
- At least 24 credits in the first language and 15 credits in the second must be taken at the 3000 level or above.  
- At least 33 hours must be taken in Foreign Language courses taught in the target language.  
- Students must earn at least a "C" (2.0) in each upper division foreign language course.  
- Co-op or internship credit cannot be used in this major.  
- Departmental Residency Requirement consists of at least 21 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Foreign Languages and Literatures.  
- Language credit by exam will not be given in courses lower in level than those in which studied 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td></td>
</tr>
</tbody>
</table>

### 2. Core Requirements-first language (24 hrs)

- Composition (select one)  
  - SPN 3420* Spanish Composition  
  - FRE 3420* French Composition  
  - FRE 4420* Advanced French Composition  
  - GER 3420* German Composition
- Oral Communication (select one)  
  - SPN 3760* Adv Spanish Oral Communication  
  - FRE 3760* Adv French Oral Communication  
  - FRE 4421* Adv French Conversation  
  - 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.

### 3. Core Requirements-second language (15 hrs)

- Composition (select one)  
  - SPN 3420, FRE 3420, GER 3420, ITA 3420  
  - Advanced Oral Communication (select one)  
  - SPN 3760, FRE 3760, GER 3760, or ITA 3760
- Restricted Electives in the second language (chosen with departmental advisor)

### 4. Core Program Prerequisites (0-12 hrs)

- Completion of Intermediate level of proficiency.

### 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 39 hrs of upper division Foreign Language courses  
- Students are required to satisfactorily complete a departmental exit exam  
- Computer Competency met by CGS 1060C or equivalent

### 6. Foreign Language Requirements

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

### 7. Electives (variable)

- Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 8. University Minimum Exit Requirements

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

### Total Semester Hours Required

- 120 hours

### Related Programs:

- French, Spanish

### Related Minors:

- French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish
UCF Degree Programs

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.

FOREIGN LANGUAGE EDUCATION - FRENCH (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

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- Present an overall GPA of 2.5.
- Meet any special departmental requirements

Degree Requirements:
- Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   ENC 1101 Composition I
   ENC 1102 Composition II
   SPC 1600 Fundamentals of Oral Communication
   B. Cultural-Historical Foundations (9 hrs)
   AMH 2010 U.S. History 1492-1877
   PHIL 2010 Introduction to Philosophy
   C. Mathematical Foundations (6 hrs)
   MGF 1106 Finite Mathematics
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
   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:
   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
   ENC 1102 Composition II
   SPC 1600 Fundamentals of Oral Communication
   B. Humanities (6 hrs)
   PHIL 2010 Introduction to Philosophy
   Select one:
   ARH 2050 The History of Art I or
   ARH 2051 The History of Art II or
   MUL 2010 Enjoyment of Music or
   THE 2000 Theatre Survey or
   FIL 2400 History of Motion Pictures
   C. Mathematics (9 hrs)
   MAC 1105 College Algebra
   MGF 1106 Finite Mathematics
   One of the following (per GEP)
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
   AMH 2010 U.S. History 1492-1877
   AMH 2020 U.S. History 1877-Present
   POS 2041 American National Government
   PSY 2012 General Psychology
   E. Science (9 hrs + lab)
   PSC 1121 Physical Science
   Select 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 105L Biological Principles Laboratory or
   GEO 1200L Physical Geography Laboratory or
   PSC 1121L Physical Science Laboratory
   F. Education Courses (9 hrs)
   EDF 2005 Introduction to Education
   EDG 2701 Teaching Diverse Populations
   EME 2040 Technology for Educators
   G. Diversity Courses
   H. Other Program Prerequisites (12 hrs)
   A total of 12 hours of courses in elementary and intermediate grammar, composition, and advanced conversation, and culture and civilization in French.
   FRE 2200 Intermediate French Lang and Civ I
   FRE 2201 Intermediate French Lang and Civ II
   FRE 3760 Advanced French Oral Communication
   FRE 3800 French Grammar

   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 4223 Professional Teaching Practices
   EDF 4214 Classroom Learning Principles
   EDF 4214 Classroom Learning Principles
   PSY 2012 General Psychology
   STA 2014C Principles of Statistics
   STA 1060C Basic Statistics using MS Excel
   Select one:
   PHI 2010 Introduction to Philosophy
   AMH 2020 U.S. History 1877-Present
   AMH 2010 U.S. History 1492-1877
   SPC 1600 Fundamentals of Oral Communication
   ENC 1102 Composition II
   ENC 1101 Composition I
   RED 4043 Content Reading K-12

4. Internship I (ESE 3940) (3 hrs)
   EDG 4223 Professional Teaching Practices
   EDF 4214 Classroom Learning Principles
   EDF 4214 Classroom Learning Principles
   PSY 2012 General Psychology
   STA 2014C Principles of Statistics
   STA 1060C Basic Statistics using MS Excel
   Select one:
   PHI 2010 Introduction to Philosophy
   AMH 2020 U.S. History 1877-Present
   AMH 2010 U.S. History 1492-1877
   SPC 1600 Fundamentals of Oral Communication
   ENC 1102 Composition II
   ENC 1101 Composition I
   RED 4043 Content Reading K-12

5. Specialization Requirements (18 hrs)
   FLE 4333 For Lang Tch in the Secondary School
   FLE 4314 For Lang Tch in the Elementary School
   FLE 4780 French Phonetics and Diction
   FLE 3420 French Composition
   FRW 3100 Survey of French Literature I
   FRW 3101 Survey of French Literature II

6. Upper Division Restricted Electives (6 hrs)
   Select two upper division (3000 or 4000 level) courses in French with advisor's approval

7. Other Cognate Requirements (3 hrs)
   Select one of the following:
   LIN 3510 Principles of Linguistics
   LIN 4643 Cross-Cultural Communication

8. Internship II (ESE 4943) (12 hrs)
   EDG 4223 Professional Teaching Practices
   EDF 4214 Classroom Learning Principles
   EDF 4214 Classroom Learning Principles
   PSY 2012 General Psychology
   STA 2014C Principles of Statistics
   STA 1060C Basic Statistics using MS Excel
   Select one:
   PHI 2010 Introduction to Philosophy
   AMH 2020 U.S. History 1877-Present
   AMH 2010 U.S. History 1492-1877
   SPC 1600 Fundamentals of Oral Communication
   ENC 1102 Composition II
   ENC 1101 Composition I
   RED 4043 Content Reading K-12

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.
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

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- Present an overall GPA of 2.5
- Meet any special departmental requirements

Degree Requirements
- Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I
      ENC 1102 Composition II
      SPC 1600 Fundamentals of Oral Communication
   B. Cultural-Historical Foundations (9 hrs)
      ANH 2010 U.S. History 1492-1877
      ANH 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
      STA 2014C 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:
      ANT 2511 The Human Species
      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
      ENC 1102 Composition II
      SPC 1600 Fundamentals of Oral Communication
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy
      Select one:
      ARH 2050 The History of Art I
      ARH 2051 The History of Art II
      MUL 2010 Enjoyment of Music
      THE 2000 Theatre Survey
      FIL 2400 History of Motion Pictures
   C. Mathematics (9 hrs)
      MAC 1105 College Algebra
      MGF 1106 Finite Mathematics
      One of the following (per GEP)
      STA 1060C Basic Statistics using MS Excel
      STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877
      AMH 2020 U.S. History 1877-Present

3. Education Core Requirements (15 hrs)
   A. Education Courses (9 hrs)
      EDF 2005 Introduction to Education
      EDG 2701 Teaching Diverse Populations
      EME 2040 Technology for Educators
   B. Education Courses (6 hrs)
      EDG 4323 Professional Teaching Practices
      EDF 4214 Classroom Learning Principles
      TSL 4080 Theory and Practice of Teaching ESOL
      RED 4043 Content Reading K-12

4. Internship I (ESE 3940) (3 hrs)
   EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I

5. Specialization Requirements (18 hrs)
   A. Education Courses (9 hrs)
      FLE 4333 For Lang Tch in the Secondary School
      FLE 4314 For Lang Tch in the Elementary School
      SPN 4780 Spanish Phonetics
      SPN 3420 Spanish Composition
      SPW 3100 Survey of Spanish Literature I
      SPW 3101 Survey of Spanish Literature II
   B. Other Program Prerequisites (12 hrs)
      A total of 12 hours of courses in elementary and intermediate grammar, composition, and advanced conversation, and culture and civilization in Spanish.

6. Upper Division Restricted Electives (6 hrs)
   Select two upper division (3000 or 4000 level) courses in Spanish with advisor’s approval

7. Other Cognate Requirements (3 hrs)
   Select one of the following:
   - LIN 3010 Principles of Linguistics
   - LIN 4843 Cross-Cultural Communication
   - PDI 3700 Romance Linguistics
   - SPN 3852 Bilinguismo
   - SPN 4800 Spanish-American Syntax
   - SPN 4700 Spanish Morphology

8. Internship II (ESE 4943) (12 hrs)
   At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II

9. Foreign Language Requirements (0-8 hrs)
   Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practises at the pre-professional level in accordance with State Board of Education 6A-5.065
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UCF Degree Programs

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

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF

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

Total Semester Hours Required 124 hours

FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)

College of Arts and Sciences
Department of Chemistry, CH 329, 407-823-6205
http://www.cas.ucf.edu/chemistry/forensic.html
E-mail: chemistry@ucf.edu
B. Fookes

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the program of study described in categories 4 and 5.
- Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (38 hrs)

A. Communication Foundations

- 9 hrs

B. Cultural and Historical Foundations

- 9 hrs

C. Mathematical Foundations

Select MAC 2233 Applied Calculus I (or equivalent proficiency exam) prior to graduation.

D. Social Foundations

- 6 hrs

E. Science Foundations

Select PHY 2053C College Physics (PR: MAC 1113 or MAC 1114)

Select BSC 2010C General Biology

2. Common Program Prerequisites (15 hrs)

BSC 2010C General Biology

CHM 2045C* General Chemistry

CHM 2211 Organic Chem I

CHM 2211 & L Organic Chem II with lab

CHM 3120C Analytical Chemistry

STA 1060C Statistics with Excel

STA 2023 Statistical Methods I

PCB 3063 & L Genetics

PCB 3233 & L Immunology


3. Core Science and Math Requirements (24 hrs)

BSC 2010C General Biology

CHM 2210 Organic Chem I

CHM 2211 & L Organic Chem II with lab

CHM 3120C Analytical Chemistry

STA 1060C Statistics with Excel

STA 2023 Statistical Methods I

PCB 3063 & L Genetics

PCB 3233 & L Immunology

4. Forensic Science Core (19 hrs)

CHS 3501 Intro to Forensic Science

CHS 3505C Forensic Microscopy

CHS 4537 Forensic Lab Quality Assurance

CHS 5595 Forensic Sci in the Courtroom

CHS 3533C Forensic Biochemistry I

CHS 4591 Forensic Science Internship

5. Forensic Analysis Track (28 hrs)

Required Courses (16 hrs)

CHM 3410 Physical Chemistry I

CHM 4130C Advanced Analytical Chemistry

CHS 3530C Forensic Anal of Controlled Subs

CHS 3511C Trace Evidence

Select 6-12 hours from the following:

CHS 4506C Forensic Investigating Techniques

CHS 4515C Forensic Crime Scene Investigation

ANT 4521C Forensic Anthropology

BCH 4053 Biochemistry I

CHM 3212L Organic Lab Techniques II

Criminal Justice courses; not to exceed six hours selected from the following courses:

CCJ 3014 Crime in America

CCJ 3024 The Criminal Justice System

CJE 4630 Serial Murder and CJ

CJE 4651 Drugs and Crime

6. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by STA 1060C, a Computer Science course, or by departmental assessment.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

7. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

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

*See Transfer Notes for possible substitutes
UCF Degree Programs

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 2253* & 2254*: may use MAC 2311 & 2312
- MAC 2311 & 2312: may use CHM 1040 plus CHM 1041

FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)

College of Arts and Sciences
Department of Chemistry, CH 223, 407-823-0163
http://www.cas.ucf.edu/chemistry/forensic.html
E-mail: chemistry@ucf.edu

J. Ballantyne
Admission Requirements: none

Degree Requirements:

1. UCF General Education Program (38 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 9 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs
      - Select PHY 2053C General Biology (or equivalent proficiency exam) prior to graduation.

2. Common Program Prerequisites (15 hrs)
   - BSC 2010C General Biology
   - CHM 2045C*: Chem Fund I
   - CHM 2045C*: Chem Fund II with lab
   - MAC 2253* Applied Calculus I
   - MAC 2254* Applied Calculus II
   - PHY 2053C* College Physics I
   - PHY 2054C* College Physics II

3. Core Science and Mathematics Requirements (24 hrs)
   - BSC 2010C General Biology
   - CHM 2210 Organic Chem. I
   - CHM 2211 & L Organic Chem. II with lab
   - CHM 5103C Analytical Chemistry
   - STA 1060C Statistics with Excel
   - STA 2023 Statistical Methods I
   - PCB 3063 & L Genetics

4. Forensic Science Core (19 hrs)
   - CHS 3501 Intro to Forensic Science
   - CHS 3505C Forensic Microscopy
   - CHS 4537 Forensic Lab Quality Assurance
   - CHS 4595 Forensic Science Internship
   - CHS 3533C* Forensic Biochemistry I
   - CHS 4534C* Forensic Biochemistry II
   - CHS 4532 Interpretation of DNA Evidence

5. Forensic Biochemistry Track (28 hrs)
   - MCB 3020C General Microbiology
   - BCH 4053 Biochemistry I
   - BCH 4054 Biochemistry II
   - BCH 4103L Biochemical Methods Lab
   - PCB 3523 Molecular Biology I
   - PCB 4524 Molecular Biology II
   - BSC 3404C Quantitative Biological Methods
   - CHS 4534C Forensic Biochemistry II
   - CHS 4532 Interpretation of DNA Evidence

6. Departmental Exit Requirements:
   - Achieve at least a minimum overall 2.5 GPA in all courses 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 4 and 5 of the departmental degree requirements.
   - 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 course hours of course work must be completed in residency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 124 hours

Related Programs: Chemistry, Forensic Science Analysis Track, Molecular Biology and Microbiology

Related Minors: Chemistry, Molecular Biology and Microbiology

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- CHM 2045C*: may use CHM 1040 plus CHM 1041
- MAC 2253* & 2254*: may use MAC 2311 & 2312
- PHY 2053C* & 2054C*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics classes and Organic Chemistry classes are required for graduation.
FRENCH (B.A.)
College of Arts and Sciences
Department of Foreign Languages & Literatures CNH 523, http://www.cas.ucf.edu/forlang
E-mail: foreignlanguage@ucf.edu
C. E. Stebbins, 407-823-2472
Admission Requirements
none

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 36 French credits must be at the 4000 level
- At least 30 hours must be taken in Foreign Language courses taught in French
- Earn at least a “C” (2.0) in each upper division French course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Foreign Languages and Literatures
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
      or
      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 1221* Elem French Lang & Civ II 4 hrs
   FRE 2200* Interim French Lang & Civ I 3 hrs
   FRE 2201* Interim French Lang & Civ II 3 hrs
   * May be met by proficiency test or completion of FRE 2201

3. Core requirements (21 hrs)
   FRE 3300* Advanced Grammar 3 hrs
   FRE 3420* French Composition 3 hrs
   or
   FRE 4422 Advanced French Composition 3 hrs
   FRE 3760* Adv French Oral Communication
      or
   3 hrs
   FRE 4421 Advanced French Conversation 3 hrs
   FRW 3100 Survey of French Literature I 3 hrs
   FRW 3101 Survey of French Literature II 3 hrs
   FRW 4780* French Phonetics and Diction 3 hrs
   FOL 3730 Romance Philology 3 hrs
   * A native or near-native French speaker must substitute alternate upper division French courses in consultation with a departmental advisor.

4. Upper Division Restricted Electives (15 hrs)
   French literature beyond the survey level
   (taught in French) 6 hrs
   French courses 9 hrs

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division French courses
   - Students are required to satisfactorily complete a departmental exit exam
   - 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 hours

Related Programs: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

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

GENERAL BUSINESS (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: B. Moore, BA 466, 407-823-5256, bmore@bus.ucf.edu
Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra 3 hrs
      or
      Select CGS 2100C Computer Fundamentals for Bus 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites
   Must be completed with a “C” (2.0) or better.
   ACG 2011 Principles of Financial Accounting 3 hrs
   ACG 2071 Principles of Managerial Accounting 3 hrs
   ECO 2013 Macroeconomics 3 hrs
   ECO 2023 Microeconomics 3 hrs
   *ECO 3401 Quantitative Business Tools I 3 hrs
   CGS 2100C Computer Fundamentals for Business 3 hrs
   * At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO3401.
3. Required for All Business Majors (30 hrs)
First Semester in the College of Business Administration:
- GEB 3031 Cornerstone 3 hrs
- GEB 3366 Introduction to Internation Business 3 hrs

First or subsequent semesters depending on major:
- BUL 3130 Legal & Ethical Environments of Business 3 hrs
- ECO 3411 Quantitative Business Tools II 3 hrs
- FIN 3403 Business Finance 3 hrs
- MAN 3025 Management of Organizations 3 hrs
- ISM 3011 Essentials of Management Info Sys 3 hrs
- MAR 3023 Marketing 3 hrs

Last Semester:
- MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Students must take 60 semester hours in courses outside the College of Business.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB.

5. Second Level Core (5 courses):
Students must take one course from each of the following areas:
- Accounting (must take ACG 3131), Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:
  - Accounting:
    - ACG 3131 Financial Accounting Concept 3 hrs
    - ACG 3361 Intermediate Managerial Accounting 3 hrs
    - TAX 4001 Federal Income Tax I 3 hrs
  - Economics:
    - ECO 3223 Money and Banking 3 hrs
    - ECP 3203 Contemporary Labor Economics 3 hrs
    - ECP 4703 Managerial Economics 3 hrs
  - Finance:
    - FIN 3303 Financial Markets 3 hrs
    - FIN 3414 Intermediate Corporate Finance 3 hrs
    - FIN 3504 Investment Analysis 3 hrs
  - Management:
    - MAN 3301 Management of Human Resources 3 hrs
    - MAN 4240 Organizations: Theory and Behavior 3 hrs
  - Marketing:
    - MAR 3613 Marketing Research & Analysis 3 hrs
    - MAR 4303 Sales Force Management 3 hrs
    - MAR 4641 Service Marketing 3 hrs
    - MAR 4156 International Marketing 3 hrs

6. Restricted Electives (four courses): (12 hrs)
Restricted electives are to be taken from three different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.

8. 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.
- Students must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.
- All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of “C” (2.0)

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program
- UCF Residency Requirement: 31 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MAC 1105
   Select STA 2014C
D. Social Foundations
   Select 3 hrs
E. Science Foundations
   Select BSC 2010C
   Select CHM 1032

2. Common Program Prerequisites (17 hrs)
   ZOO 3733C Human Anatomy* 4 hrs
   PCB 3703C Human Physiology* 4 hrs
   STA 2014C Statistics GEP 4 hrs
   CGS 1104C or CGS 1104D 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)
   HSA 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 4700 Intro to Research in Health Prof 3 hrs
   HSC 3531 Medical Terminology 3 hrs
   HSC 3680 Health Law 3 hrs
   HSC 4550 Pathophysiological Mechanisms 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   or
   HSA 4180 Organization Management for Health Agencies 3 hrs
   HIM 2006 Foundations of Health Information Management 3 hrs
   HIM 3116C Health Record Organization & Management 3 hrs
   HIM 3806L Professional Practice Exp. I 2 hrs
   HIM 3816L Professional Practice Exp. II 2 hrs
   HIM 4226C Coding Procedures I 5 hrs
   HIM 4256C Coding Procedures II 3 hrs
   HIM 4676 Professional Development Issues in Health Information Management 3 hrs
   HIM 4344C Health Information Department Management 3 hrs
   or
   HIM 4506 Performance Improvement 4 hrs
   HIM 4836L Professional Practice Exp. III 2 hrs
   HIM 4837L Professional Practice Exp. IV 2 hrs
   HIM 4838 Management Affiliation 5 hrs
   HIM 4656C Health Information Management Systems 3 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)
   A minimum 2.5 overall GPA is required for graduation.
   Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements (120 hrs)
   • A 2.0 UCF GPA
   • 60 semester hours earned after CLEP awarded
   • 48 semester hours of upper division credit completed
   • 30 of the last 36 hours of course work must be completed in residency at UCF
   • A maximum of 45 hours of extension, correspondence, CLEP Credit by Exam, and Armed Forces credits permitted
   • Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Related Programs: Health Services Administration, Business, Computer Science

Related Minors: Health Services Administration, Business, Computer Science

Transfer Notes:
   Community College Equivalents:
   - Human Anatomy & Physiology I & II (BSC X085 and X086) 8
   - Statistics (STA 2014C or any other statistics course) 3
   - Computer Science for Business (CGS 1060C or any other computer science course) 3

   Students who transfer with an AA degree and who 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 14 hrs Spring 16 hrs
ENC 1101 3 ENC 1102 3
CHM 1032 3 STA 2014C 3
HSC 2000 2 BSC 2010C 4
MAC 1115 3 EUH 2001 or HUM 2211 3
or
or AMH 2010
or
or PSY 2012 or SYG 2000
or ANTH 2000
POS 2041 or ECO 2013 3

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

Sophomore Year
Fall 13 hrs Spring 13 hrs
ACG 2021 3 ACG 2071 3
ZOO 3733C 4 PCB 3703C 4
or
EUH 2001 or HUM 2230 3 SPC 1600 3
or
or AMH 2020
or
or CGS 2100C
One Course: ARH 2050 3
or
or ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120

Junior Year
Fall 14 hrs Spring 14 hrs
HSA 4191** 3 HIM 4226C 5
HSA 4550** 3 HSA 4344C 4
HSA 4700** 3 HSA 4806L 2
HUM 2230 3 HIM 4656C 3
or
or AMH 2100, or HIM 4836L 2
or
or HUM 3680L 2
or
or HSA 4180 3
or
or HSA 3157 3
or
or ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120

Summer 8 hrs
HUM 3025**, or HSA 4180 3
HIM 4836L 2
HSC 3640** 3

Senior Year
Fall 14 hrs Spring 14 hrs
HIM 4344C 4 HIM 4676 3
HSA 4170** 3 HSA 4656C 3
HIM 4506 3 HSA 4387L 2
HIM 4656C 3 HSA 4700** 3
or
or HSA 4190** 3

Summer 5 hrs
HIM 4838 3

**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
HPA 2 210, 407-823-3463
http://www.cohpa.ucf.edu/health.pro/athletic
E-mail: dccassidy@mail.ucf.edu
Undergraduate Program Director: David Cassidy

Admission Requirements
Students may only begin the athletic training program track in the Summer semester and must have:
A. Acceptance to the University as an undergraduate student in Health Sciences - Athletic Training.
B. A minimum of 2.75 overall grade point average.
C. Completion of an AA degree from a Florida Community College; or completion of UCF’s General Education Program.
D. This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is
students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

E. Consent of Program Director

F. A minimum of 100 documented clock hours working, volunteer-
ing, or shadowing under a licensed athletic trainer prior to admis-
sion to the program.

Technical Standards Requirement

The Athletic Training Educational Program at University of Central Florida is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Educational Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation of Allied Health Education Programs [CAAHEP]). The following abilities and expectations must be met by all students admitted to the Athletic Training Educational Program. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program’s technical standards does not guarantee a student’s eligibility for the NATABOC certification exam.

Candidates for selection to the Athletic Training Educational Program must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and thera-

tic 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 treat-

ment of patients;

- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cul-

tural 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 treat-

ment plan clearly and accurately;

- The capacity to maintain composure and continue to function well during periods of high stress;

- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;

- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;

- Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the athletic training educational program will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. University of Central Florida will evaluate a student who states he/she could meet the program’s technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review a whether the accommodations requested are rea-

sonable, 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’s applic-

ation 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 and the Common Program Prerequisites before transferring within the Florida Public University/Community College System

- Students should consult with a departmental advisor

- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be complet-

ed in the first 60 hours

- UCF Residency Requirement: 30 hours

- The courses designated in sections 1 (General Education) and 2 (Core Requirements) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

   A. Communication Foundations
      - 9 hrs
   
   B. Cultural Historical Foundations
      - 9 hrs
   
   C. Mathematical Foundations
      - 6 hrs
      - Select MAC 1105
      - Select STA 2023
   
   D. Social Foundations
      - 6 hrs
      - Select POS 2041
      - Select PSY 2012
   
   E. Science Foundations
      - 6 hrs
      - BSC 2010C
      - CHM 1032

2. Common Course Prerequisites (15 hrs)

The following courses are required before entering the profes-

sional phase of the athletic training program. Each of the required courses must have a grade of "C" (2.0) or better.

   - BSC 2010C General Biology I and Lab GEP
   - ZOO 3733C Human Anatomy
   - PCB 3703C Human Physiology
   - CHM 2045C Chemistry Fundamentals I GEP
   - PHY 2023C Coll Physics I (algebra based) or
   - PHY 2046L Physics for Scientists I (calculus based)
   - HUN 2002 Modern Concepts of Nutrition
   - STA 2023 Statistical Methods I GEP
   - PSY 2012 General Psychology GEP

3. Professional Phase (58 hrs)

   - PET 4603 Intro to Sports Medicine
   - PET 3620C Principles of Athletic Training
   - PET 3670C Practicum in Athletic Training I
   - PET 4351 App Exercise and Human Phys
   - PET 3623C Art & Science Athletic Training I
   - PET 3671C Practicum in Athletic Training II
   - PET 4660C Org and Adm in Athletic Training
   - PET 4630C Ther Exercise in Athletic Training
   - PET 4632C Ther Mod in Athletic Training
   - PET 4634C Art & Sci of Athletic Training II
   - PET 4315C Biomechanics of Sport
   - PET 4672C Practicum in Athletic Training III
   - HSA 4700 Health Science Research
   - PET 4666 App Fitness in Sport
   - PET 4673C Practicum in Athletic Training IV
   - HSC 3157 Introduction to Pharmacology
   - PET 4604 Sports Medicine in Field Application
   - PET 4674 Senior Seminar

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)

Two years of successful clinical rotation under the direct supervision of 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 proficien-

cy 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-

idency at UCF

- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
### UCF Degree Programs

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

### Total Semester Hours Required

**120 hours**

### Related Programs:
- Aging studies Certificate, Business, Public Administration
- Health Professions

### Related Minors:
- Business, Computer Sciences, Aging Studies, Information Systems, and Public Administration. Courses leading to a Certificate in Aging Studies are appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

### Transfer Notes:
- General Biology with Lab (BSC 1010/L) 4 hrs
- Human Anatomy and Physiology I & II (BSC X093 and X094) 8 hrs
- X094 or BSC X085 and X086

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

### Tentative Course Schedule for Entering Freshmen

#### Freshman Year*

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
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<tr>
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<td>ENC 1102</td>
<td>3</td>
</tr>
<tr>
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<td>POS 2041</td>
<td>3</td>
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<tr>
<td>MAC 1105</td>
<td>3</td>
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<td>CHM 2045C</td>
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#### Sophomore Year

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<tr>
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<td>ZOO 3733C</td>
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<td>THE 2000 or PHI 2010</td>
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<td>STA 2023</td>
<td>3</td>
<td>HUM 2002</td>
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<td>EUH 2000 or HUM 2211</td>
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<td>PCB 3703C</td>
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<td>or AMH 2010 or WOH 2012</td>
<td>3</td>
<td>SPC 1600</td>
<td>3</td>
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<td>or AMH 2020 or WOH 2022</td>
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#### Summer

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<td>PET 4503</td>
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<tr>
<td>(Foreign Lang I)</td>
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<tr>
<td>(Foreign Lang II)</td>
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<td>if not satisfied in high school</td>
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#### Junior Year

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<td>HSC 3149</td>
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<td>PET 4351</td>
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<td>PET 4624C</td>
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<td>PET 3623C</td>
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<td>PET 3671C</td>
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#### Summer

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<td>PET 4630C</td>
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<td>PET 4632C</td>
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#### Senior Year

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<tr>
<td>PET 4650</td>
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<td>HSA 4700</td>
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<td>PET 4315C</td>
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<td>PET 4673C</td>
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<td>PET 4672C</td>
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<td>PET 4604</td>
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### HEALTH SCIENCES - GENERALIST TRACK (B.S.)

**Purposes of this degree** - Provides an opportunity for credentialed health care professionals to expand scope of their education through completion of courses both within and outside of their discipline and to enable students considering a health services career to complete courses in several disciplines in order to make informed career decisions.

#### College of Health and Public Affairs

**HPA 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)*

### Admission Requirements

- none

### Degree Requirements

- Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System

- Students should consult with a departmental advisor

- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours

- Students must earn at least a “C” (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below)

- No transfer course will be accepted with a grade lower than a “C.”

- Students who change degree programs and select this major must adopt the most current catalog

- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations
- B. Cultural Historical Foundations
- C. Mathematical Foundations

- Select MAC 1105 College Algebra
- Select STA 2014C Principles of Statistics or STA 2023 Statistical Methods I
- Select STA 2041 American National Government
- Select PSY 2012 General Psychology

- E. Science Foundations

### 2. Common Program Prerequisites (8 hrs)

- A. College Algebra
- B. Principles of Statistics or a Statistical Method
- C. General Biology

### 3. Core Requirements - Lower Division (14 hrs)

- A. Computer Fundamentals for Business or Intro to Computer Science
- B. General Chemistry or Microeconomics
- C. Intro to the Allied Health Professions or College Trigonometry

### 4. Lower Level Electives (0-5 hrs)

Number of hours depends upon the number of foreign language hours required

### 5. Upper Division Restricted Electives (0-15 hrs)

Up to 15 hours from related health science programs with departmental approval

### 6. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency)
HEALTH SERVICES ADMINISTRATION (B.S)

College of Health and Public Affairs
HPA2 210, 407-823-2359
http://www.cohpa.ucf.edu/health/pro/

Executive Director of HSA Programs: Myron Fottler
Undergraduate Program Director: Thomas Falen
Graduate Program Director: Dawn Oeljen

This program is also currently available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements
None

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

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 5 hrs
   - D. Social Foundations 6 hrs
   - Select MAC 1105
   - Select STA 2014 or 2023
   - D. Social Foundations 6 hrs
   - Select STA 2023
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)
   - CGS 2100C Computer Fund for Business Applications or
   - CGS 1060C Intro to Computer Science
   - ACG 2021 Managerial Accounting 3 hrs
   - STA 2023 or Statistical Methods GEP
   - STA 2023

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

3. Core Requirements (45 hrs)
   - HSA 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 3 hrs
   - HSA 4700 Health Science 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 4565 Health Care Ethics 3 hrs
   - HSC 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

5. Program Exit Requirements (120 hrs)
   - Students must earn a “C” (2.0) or better in each Health Services Administration elective course.

6. Electives

   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
### UCF Degree Programs

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 residence at UCF**
- **A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted**
- **Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)**

#### Total Semester Hours Required 120 hours

### Related Programs:

- Aging Studies Certificate, Public Administration, Health Information Management

### Related Minors:

- Aging Studies, Health Information Management, Health Sciences, Information Systems, and Public Administration.

Courses leading to a Certificate in Aging Studies are appropriate.

### Tentative Course Schedule for Entering Freshmen

#### Freshman Year*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
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<tbody>
<tr>
<td>ENC 1101</td>
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<td>3</td>
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<tr>
<td>PSY 2012 or SYG 2000</td>
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<td>3</td>
</tr>
<tr>
<td>or ANT 2000</td>
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<tr>
<td>HSC 2000</td>
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<td>2</td>
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<td>MAC 1105</td>
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#### Sophomore Year

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<th>Course Code</th>
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<td>ECO 2013</td>
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<td>or AMH 2010 or WOH 2012</td>
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<tr>
<td>or MGF 1106C Intro to Computer Sci</td>
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#### Summer

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<tr>
<th>Course Code</th>
<th>Hours</th>
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#### Junior Year

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<th>Fall Hours</th>
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<td>HSC 4531</td>
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<td>or AMH 4201</td>
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#### Senior Year

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>HSC 3640</td>
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<td>HSC 4563</td>
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<td>Elective</td>
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#### 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](http://pegasus.cc.ucf.edu/~history)

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

**E. Kallina, 407-823-2224**

**Admission Requirements**

- A 2.0 UCF GPA
- 36 hours in history

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a "C" (2.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department
- Students must compile a portfolio of their written work in history, completed inside and outside the classroom
- Students must complete 36 hours in history
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

#### 1. UCF General Education Program (36 hrs)

- **A. Communication Foundations**
  - 9 hrs
- **B. Cultural and Historical Foundations**
  - Select AMH 2010 US History: 1492-1877 3 hrs
  - Select AMH 2020 US History: 1877-Present 3 hrs
  - Select from GEP list 3 hrs
- **C. Mathematical Foundations**
  - Select MGF 1106 Finite Mathematics 3 hrs
  - Math (may substitute a higher level math) 3 hrs
- **D. Social Foundations**
  - 6 hrs
- **E. Science Foundations**
  - 6 hrs

#### 2. Common Program Prerequisites (0 hrs)

- **AMH 2010** US History: 1492-1877 GEP
- **AMH 2020** US History: 1877-Present GEP

*See Transfer Notes for possible substitutes

#### 3. Core Requirements (9 hrs)

- Select one sequence 3 hrs
- HIS 4150 History & Historians 3 hrs
- Select one course 3 hrs
- EUN 2000, 201 1 Western Civilization I & II 3 hrs
- WOH 2012, 202 World Civilization I & II 3 hrs

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

- Select six hours of approved history courses within three of the four geographic regions. 18 hrs
  1. Asian, African, and Middle Eastern
  2. British and European
  3. Latin American
  4. U.S. and Canadian
- Select three hours of approved history courses 3 hrs

#### 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 interest.

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

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

Total Semester Hours Required 120 hours

Related Programs: Humanities
Related Minors: African-American Studies, American Studies, Asian Studies, Humanities, Latin American and Iberian Area Studies, Russian Area Studies, Women’s Studies

Transfer Notes:
Grades below “C” (2.0) are not accepted.
Courses taken at community colleges do not substitute for upper division courses.
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

HISTORY ACCELERATED PROGRAM (B.A. and M.A.)
Accelerated Undergraduate/Graduate Program
Note: For detailed information about this program, see description in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.

HOSPITALITY MANAGEMENT (B.S.)
Rosen School of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-823-2188 or 407-903-8900
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 CEG 2100C Computer Fundamentals for Bus or STA 2023 Statistical Methods I 3 hrs
D. Social Foundations
   Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
   Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
E. Science Foundation 6 hrs

2. Common Program Prerequisites (3 hrs)
CGS 2100 or STA 2023 Computer Fundamentals of Business (GEP)
ECO 2013 Macroeconomics (GEP)
or ECO 2023 Microeconomics (GEP)
MAC 1105 College Algebra (GEP)
HFT 1000 Introduction to Hospitality/Tourism 3 hrs

3. Hospitality Management Core (49 hrs)
A. Fundamentals 3 hrs
   HFT 3540 Guest Services Management
B. Managerial Tools (21 hrs)
   HFT 2403 Hospitality Financial Accounting 3 hrs
   HFT 2431 Hospitality Managerial Accounting 3 hrs
   HFT 2500 Hospitality Marketing 3 hrs
   HFT 2220 Hospitality Human Resource Mgmt 3 hrs
   HFT 3444 Hospitality Information Systems 3 hrs
   HFT 3600 Legal Environment in Hospitality 3 hrs
   HFT 4295 Strategic Management in Hospitality Ind 3 hrs
C. Sectoral Studies (21 hrs)
   HFT 2254 Lodging Operations 3 hrs
   HFT 2212C Quality Food Preparation 3 hrs
   HFT 3700 Tourism Management 3 hrs
   HFT 2750 Meetings/Convention/Expo Industry 3 hrs
   HFT 3261 Restaurant Management 3 hrs
   HFT 3273 Principles of Resort Time Sharing 3 hrs
   HFT 4755 Theme Park and Attraction Mgmt 3 hrs
D. Internships (3 hrs)
   HFT 3990 Practicum I 1 hr
   HFT 3942 Practicum II 1 hr
   HFT 4941 Practicum III 1 hr
E. Guest Lectures (1 hr)
   HFT 3933 Distinguished Lectures in Hospitality Management 1 hr

4. Special School Requirements:
It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
Final exams will be given during Final Exam Week only.
Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

5. Restricted Electives:
Students must take 18 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the seven specialized career tracks as outlined below.

A. Generalist Track (18 hrs)
Choose six advanced courses from the following list:
   HFT 3313 Hospitality Physical Plant Management 3 hrs
   HFT 4343 Hospitality Facilities Planning & Design 3 hrs
   HFT 4298 Hospitality Business Consulting 3 hrs
   HFT 4473 Hotel Development Analysis 3 hrs
   HFT 3785 Management of Gaming Enterprises 3 hrs
   HFT 3807 Multi-Unit Foodservice Organizations 3 hrs
   HUN 3031 Nutrition Concepts & Issues in Food Sys 3 hrs
   HFT 481C Beverage Management 3 hrs
   FSS 3124 Supply and Procurement Management 3 hrs
   FSS 3232C Intermediate Techniques of Food Production 3 hrs
   FSS 4286C Catering and Banquet Organization 3 hrs
   HFT 3511 Convention & Conference Services 3 hrs
   HFT 4753 Convention & Conference Services 3 hrs
   HFT 4754 Exhibit & Trade Show Operations 3 hrs
   HFT 4735 Tourism Geography 3 hrs
   HFT 4722 Travel Agency Management 3 hrs
   HFT 4762 Current Practices in the Airline Industry 3 hrs
   HFT 4276 Vacation Ownership Resort Development 3 hrs
   HFT 4462 Hospitality Industry Finance 3 hrs
   HFT 3741 Meeting Management 3 hrs
   HFT 3757 Event Management 3 hrs
   HFT 4266 Restaurant Brand Management 3 hrs
   HFT 4268 Case Studies in Restaurant Management 3 hrs
   HFT 4274 Vacation Ownership Resort Management 3 hrs
   HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
   HFT 4442 Vacation Ownership Resort Reservations/ Data Base Systems 3 hrs
   HFT 4759 Product Development in Theme Parks 3 hrs

UCF Degree Programs
UCF Degree Programs

HFT 4758 Contemporary Issues in the Theme Park and Attractions Industry 3 hrs
HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
HFT 4269 Case Studies in Multi-Unit Restaurant Management 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
HFT 4XXX Hospitality Communications 3 hrs
HFT 4XXX Hotel Operations 3 hrs
FSS 3003 Culture and Cuisine
HFT 3784 Amusement Technology
HFT 3802 Catering Management
HFT 3770 Cruise Line Operations and Management
HFT 3574 Foodservice Marketing and Advertising and Promotion Management
HFT 3654 Franchising in the Restaurant Industry
HFT 3XXX Law and Restaurant Management
HFT 3374 Multi-Media Applications in Exhibitions
HFT 3834 Topics in Restaurant and Foodservice Management
HFT 4275 Advanced Trade Show Management
HFT 4864 Anheuser Busch Seminar in Quality Brewing and Fine Beer
HFT 4425 Financial Analysis for Restaurant Managers
HFT 4786 Managing the Guest Experience in Theme Park and Attractions
HFT 4787 Operational Issues in the Theme Park and Attraction Industry
HFT 4281 Restaurant Leadership Strategies and Tactics
HFT 4645 Restaurant Real Estate, Site Selection and Modeling
HFT 4277 Yacht, Country, and Club Management
HFT 4XXX Exploring Wines of the World

B. Convention/Conference Management Track (18 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

C. Foodservice and Restaurant Operations Management Track (18 hrs)
HFT 4266 Restaurant Brand Management 3 hrs
HFT 4844 Sanitation Mgt in Foodservice Industry 3 hrs
HFT 4861C Beverage Management 3 hrs
FSS 3124 Supply and Procurement Management 3 hrs
Plus one course from the following list:
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
FSS 3232C Intermediate Techniques of Food 3 hrs
Production
FSS 426C Catering and Banquet Organization 3 hrs
HUN 3013 Nutrition Concepts & Issues in Foodservice 3 hrs
HFT 4434 Hospitality Facilities Planning & Design 3 hrs
HFT 4568 Case Studies in Restaurant Management 3 hrs
HFT 4269 Case Studies in Multi-Unit Restaurant Management

D. Vacation Ownership Resort Management Track (18 hrs)
HFT 4275 Vacation Ownership Resort Development 3 hrs
HFT 4274 Vacation Ownership Resort Management 3 hrs
HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Reservations/ Data Base Systems 3 hrs
HFT 4434 Hospitality Facilities Planning & Design 3 hrs
HFT 4462 Hospitality Financial Management 3 hrs

E. Theme Park and Attraction Management Track (18 hrs)
HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
HFT 4758 Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
HFT 4787 Operational Issues in the Theme Park and Attractions Industry 3 hrs
HFT 3757 Event Management 3 hrs

F. Tourism Management Track (18 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 4754 Exhibit & Trade Show Operations 3 hrs
HFT 3757 Event Management 3 hrs
Plus one course from the Generalist Track (A) 3 hrs

G. Lodging Management Track (18 hrs)
HFT 3313 Hospitality Physical Plant Management 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 4753 Convention & Conference Services 3 hrs
HFT 4462 Hospitality Financial Management 3 hrs
HFT 4XXX Hotel Operations 3 hrs

H. Hospitality Financial Management and Technology (18 hrs)
HFT 4442 Vacation Ownership Resort Reservations/ Data Base Systems 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
HFT 4432 Hospitality Industry Auditing 3 hrs
HFT 4413 Technology Applications for Management Decision Making

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

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

8. Unrestricted Electives (6-14 hrs)
As necessary to result in 120 total credit hours.

Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF School of Hospitality Management.
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*
*Plan your required nine summer credit hours into your course of study.

Freshman
Fall 15 hrs Spring 15 hrs
ENC 1101 3 ENC 1102 3
Cult-Hist I 3 Cult-Hist II 3
CGS 2200C 3 SPC 1600 3
HFT 1900 3 HFT 2500 Hosp Marketing 3
PSY 2012 SYG 2000 or 3 MAC 1105 College Algebra 3
ANT 2000

Sophomore
Fall 15 hrs Spring 15 hrs
ECO 2013 or ECO 2023 3 CultHist Foundation 3
Science Foundation I 3 Science Foundation II 3
HFT 2254 Lodging Ops 3 HFT 2403 Hosp Fin Acct 3
HFT 3444 Hosp Info Sys 3 HFT 2220 Hosp Hum Res 3
HFT 2750 Meet/Conv/Exp 3 FSS 2221C Quant Food Prep 3

162 UNIVERSITY OF CENTRAL FLORIDA 2004-2005 Undergraduate Catalog
HOSPITALITY MANAGEMENT (B.S.)
A.S. to B.S. Track
Note: For detailed information about this program, see description in the AS to BS Programs section.

HUMANITIES (B.A.)
College of Arts and Sciences
Philosophy Department, CNH 411, http://www.cas.ucf.edu/philosophy/
E-mail: philosophy@ucf.edu
Bruce Janz, 407-823-2273; Fax: 407-823-6658

Admission Requirements
none

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Co-op or internship credit cannot be used in this major without prior approval by the chair.

Students must earn at least a “C” (2.0) in each required course.

Students should consult with a departmental advisor.

Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.

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

1. UCF General Education Program (36 hrs)
A. Communication Foundations
   9 hrs
B. Cultural and Historical Foundations
   Select HUM 2211 Humanistic Tradition I 3 hrs
   Select HUM 2230 Humanistic Tradition II 3 hrs
   Select PHI 2010 Intro to Philosophy or REL 2300 World Religions 3 hrs
C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   Prefer STA 1060C Statistics Using Excel 3 hrs
   Social Foundations 6 hrs
   Science Foundations 6 hrs

2. Common Program Prerequisites
   none

3. Core requirements (24 hrs)
Note: Appropriate special topics courses in philosophy or humanities may be substituted for some core courses with prior approval by department advisor.

Core
   HUM 2211 Humanistic Traditions I GEP 3 hrs
   HUM 2230 Humanistic Traditions II GEP 3 hrs

Humanities Foundations
   Select three courses:
   HUM 3431 Ancient Humanities
   HUM 3435 Medieval Humanities
   HUM 3255 Modern Humanities
   HUM 3251 Contemporary Humanities

Humanistic/Religious Traditions
   Select three courses:
   HUM 3401 Asian Humanities
   HUM 3417 Hindu Thought and Culture
   HUM 3419 Islamic Thought and Culture
   HUM 3552 Christian Thought
   HUM 3553 Moses, Jesus, & Mohammed

4. Upper division Restricted Electives (6 hrs)
Select two courses from the above list that are not being used to satisfy Core Requirements and/or from the following:

   HUM 3320 Contemporary Multicultural Studies
   HUM 4301 Classical Ideal
   HUM 4303 Spiritual Ideal
   PHI 3700 Philosophy of Religion
   PHI 3800 Aesthetics
   PHI 4804 Critical Theory
   CLA 3851 Comparative Mythology
   CLA 3850 Classical Mythology

5. Honors in the Major
Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hours)
Same requirements as for regular majors

Honors Thesis
   HUM 4903H Honors Directed Readings 3 hrs
   HUM 4970H Honors Thesis 3 hrs

Additional Requirements
   Application and admission through the Humanities Honors Coordinator
   Fulfill University requirements for Honors in the Major
   Earn a “B” (3.0) or better in both HUM 4903H and HUM 4970H
   Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
   Successful completion and oral defense of Honors thesis

6. Departmental Exit Requirements
   Either HUM 4970H: Honors Thesis (3 hrs) or organization and submission of a portfolio (HUM 4393 - 1 hr) of one’s work in humanities to a Departmental committee for approval prior to graduation.
   Earn a “C” (2.0) or better in each required course
   Computer Competency met by HUM 4970H, HUM 4906, or by STA 1060C.
   To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: 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.

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be taken by Co-op or internship credit.

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
UCF Degree Programs

- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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.

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

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   - 9 hrs

B. Cultural and Historical Foundations
   - Select HUM 2211 Humanistic Tradition I 3 hrs
   - Select HUM 2230 Humanistic Tradition II 3 hrs
   - Select REL 2300 World Religions 3 hrs

C. Mathematical Foundations
   - Select MGF 1106 Finite Mathematics (May substitute a higher level math) 6 hrs
   - Prefer STA 1060C Statistics Using Excel

D. Social Foundations
   - 6 hrs

E. Science Foundations
   - 6 hrs

2. Common Program Prerequisites

   None

3. Core requirements (24 hrs)

   Core
   - HUM 2211 Humanistic Traditions I 3 hrs
   - HUM 2230 Humanistic Traditions II 3 hrs

   Foundations in the Study of Religion and the Humanities
   - Select three courses, at least two must be from (a) (9 hrs)
     (a) Religion
     - PHI 3700 Philosophy of Religion 3 hrs
     - POT 4302 Religion and Politics 3 hrs
     - SYO 4200 Sociology of Religion 3 hrs
     - REL 3131 Religion in America 3 hrs
     - ANT 3241 Magic, Ritual, and Belief

     (b) Humanities and Classics
     - HUM 3431 Ancient Humanities 3 hrs
     - HUM 3435 Medieval Humanities 3 hrs
     - HUM 3255 Modern Humanities 3 hrs
     - HUM 3251 Contemporary Humanities 3 hrs
     - CLA 3850 Classical Mythology 3 hrs
     - CLA 3851 Comparative Mythology 3 hrs

   Traditions: Religion in a Global World
   - Select three courses: (9 hrs)
     - HUM 3401 Asian Humanities 3 hrs
     - HUM 3417 Hindu Thought and Culture 3 hrs
     - HUM 3419 Islamic Thought and Culture 3 hrs
     - HUM 3552 Christian Thought

   4. Upper division Restricted Electives (9 hrs)

   Select three courses from the following list (if not being used to fulfill Core Requirements)
   - HUM 3320 Contemporary Multicultural Studies
   - HUM 4301 The Hebrew Creative Mind
   - JST 3100 Introduction to Modernism in Judaism
   - JST 3202 The Holocaust
   - LIT 3202 Death and Dying
   - LIT 4374 Literature of the Bible
   - PHIL 3786 Existentialism
   - SYO 4200 Sociology of Religion
   - PHI 3700 Religion and Politics

   5. Honors in the Major

   Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

   Core and Elective Requirements (30 hrs)

   - Same requirements as for regular majors

   Honors Thesis
   - Either HUM 4903H: Honors Directed Readings 3 hrs
   - HUM 4970H: Honors Thesis 3 hrs

   Additional Requirements
   - Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
   - Fulfill University requirements for Honors in the Major
   - Earn a “B” (3.0) or better in both HUM 4903H and HUM 4970H
   - Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
   - Successful completion and oral defense of Honors thesis

6. Departmental Exit Requirements

   - Either HUM 4970H: Honors Thesis (3 hrs) or organization and submission of a portfolio (HUM 4393 - 1 hr) of one’s work in humanities to a Departmental committee for approval prior to graduation.
   - Earn a “C” (2.0) or better in each required course
   - Computer Competency met by HUM 4970H, HUM 4393, or by STA 1060C.
   - To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)

   Admission: Met by graduation requirement
   Graduation: 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.
Courses transferred from private and out-of-state schools must
"agree to meet UCF undergraduate academic requirements. Courses taken at community colleges do not substitute for Upper Division courses. Undergraduate 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.

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

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

Total Semester Hours Required 120 hours

Related Programs: Philosophy, Humanities, Liberal Studies
Related Minors: Philosophy, Humanities, Judaic Studies, Religious Studies

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

INDUSTRIAL ENGINEERING (B.S.I.E.)
College of Engineering and Computer Science
Industrial Engineering & Management Systems (IEMS) Department

ENG2 312, 407-823-2204, Fax: 407-823-3413
http://www.iems.ucf.edu/
Bill Thompson, E-Mail: wthomps@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

Degree Requirements
- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

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

A. Communication Foundations
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).

C. Mathematical Foundations
7 hrs
1. Take STA 3032 (3 hrs).

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

E. Science Foundations
7 hrs
1. Take PHY 2048/48L.

2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. A 2.0 cumulative GPA or better is required for those courses in section 2. marked with an asterisk (*). Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

A. Communication Foundations
7 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* (CHM 2045C/45L will substitute)
2. Take STA 3032 (3 hrs).

C. Mathematical Foundations
7 hrs
1. Take STA 3032 (3 hrs).

D. Social Foundations
6 hrs
1. Take ENC 1102
2. Take ENC 1101
3. Prefer SPC 1016

E. Science Foundations
7 hrs
1. Take PHY 2048/48L

3. Courses Required for the Engineering Core (22 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 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.

A. Communication Foundations
16 hrs
1. Take ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

B. Cultural and Historical Foundations
9 hrs
1. Take STA 3032 (3 hrs).

C. Mathematical Foundations
16 hrs
1. Take STA 3032 (3 hrs).

D. Social Foundations
9 hrs
1. Take STA 3032 (3 hrs).

E. Science Foundations
15 hrs
1. Take PHY 2048/48L

4. Courses Required for the Major (40 hrs)
The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

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).

C. Mathematical Foundations
7 hrs
1. Take STA 3032 (3 hrs).

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

E. Science Foundations
7 hrs
1. Take PHY 2048/48L

5. Approved Technical Electives (3 hrs)
Technical electives are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)
- EIN 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.
UCF Degree Programs

8. University Minimum Graduation Requirements

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

Total Semester Hours Required: 128 hours

Related Programs: 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 hrs1
- EIN 1006 Intro to Eng 1
- EIN 1006C Eng Anal-Comp 3
- EIN 1101 Engri Tech Presentations 3
- ECO 2023 Microeconomics 3

Spring 12 hrs2
- EIN 1102 English Comp II 3
- EIN 3304 Intro to ie & Mgt Sys 3
- EIN 4118C IE Computer Appl 3
- EIN 4364C Industrial Cont Sys 3

SECOND YEAR

Fall 13 hrs1
- EIN 3321 Eng Anal-Dynamics 3
- EIN 3310 Engr Anal-Statics 3
- EIN 3304 Intro to ie & Mgt Sys 2
- MAC 2313 Calc with Analytic Geo III 3

Spring 12 hrs2
- MAC 2311 Calc with Analytic Geo II 4
- EIN 3304 Intro to ie & Mgt Sys 3
- EIN 4118C IE Computer Appl 3
- EIN 4364C Industrial Cont Sys 3

THIRD YEAR

Fall 12 hrs
- EIN 3436C Indus Fcty Pln/Dsgn 3
- EIN 4221 Empirical Mthds - IE 3
- EIN 4333C Systems Simulation 3
- EIN 4333C Industrial Cont Sys 3

Spring 15 hrs
- EIN 4243C Human Engrng 3
- EIN 4243C Human Engrng 3
- EIN 4312 Operations Research 3
- EIN 4333C Industrial Cont Sys 3

Summer 9 hrs1
- EIN 4243C Human Engrng 3
- EIN 4333C Industrial Cont Sys 3

FOURTH YEAR

Fall 12 hrs
- EIN 4243C Human Engrng 3
- EIN 4333C Industrial Cont Sys 3
- EIN 4333C Industrial Cont Sys 3

Spring 12 hrs
- EIN 4243C Human Engrng 3
- EIN 4333C Industrial Cont Sys 3
- EIN 4333C Industrial Cont Sys 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.
- Courses with a plus (+) are courses for which an appropriate graduate class substitution can be made. See advisor for accepted substitution list.

Integrated BS/MS Degree Program

The IEMS department offers the Integrated BS/MS Program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BSIE requirements. See advisor for appropriate substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

AS to BS Track

Note: For detailed information about this program, see description in the AS to BS Program section.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

College of Engineering and Computer Science
Engineering/Technology (ENT) Department
ENGR 207
Coordinator: Bahman Motlagh
407-823-4748 Fax: 407-823-4746
http://www.ent.ucf.edu

Admission Requirements

Students should complete 33 credit hours of lower level technical courses at a community college. Technical courses will be accepted in the following areas: networking, programming, information technology, computer science, and computer engineering and technology or closely related disciplines.

Degree Requirements

- Students should check with their ENT 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)
- MAC 2313 Calc with Analytic Geo III 4
- MAC 2313 Calc with Analytic Geo III 4

B. Cultural and Historical Foundations (9 hrs)
- ECT 2364 Introduction to CSE 3
- ECT 2364 Introduction to CSE 3

C. Mathematical Foundations (6 hrs)
- ECT 2364 Introduction to CSE 3
- ECT 2364 Introduction to CSE 3

D. Social Foundations (6 hrs)
- ECT 2364 Introduction to CSE 3
- ECT 2364 Introduction to CSE 3

E. Science Foundations (6 hrs)
- ECT 2364 Introduction to CSE 3
- ECT 2364 Introduction to CSE 3

2. Engineering Technology Core Courses (26 hrs)

- ECT 2364 Introduction to CSE 3
- ECT 2364 Introduction to CSE 3

3. Lower Level Required Courses Taken at Community College (33 hrs)

4. Required Technical Courses (21 hrs)

- ECT 2364 Introduction to CSE 3
- ECT 2364 Introduction to CSE 3

5. Technical Electives (12 hrs)

Choose four from the following:
- ECT 2364 Introduction to CSE 3
- ECT 2364 Introduction to CSE 3

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### 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**
  - Select ENC 1101, ENC 1102  
  - Prefer SPC 1016

- **B. Cultural and Historical Foundations**
  - Select MAC 2147 Math for Calculus  
  - Select STA 2023, Statistical Methods I

- **C. Mathematical Foundations**
  - Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics  
  - Select PSY 2012 General Psychology

- **D. Social Foundations**
  - Select EFL 2102 or EFL 2142  
  - Select PHI 3626 Ethics in Science and Technology

- **E. Science Foundations**
  - Select PHY 2053 College Physics I  
  - Select one additional science

#### 2. Common Program Prerequisites (3 hrs)

- **A. Math and Science Requirements**
  - Select MAT 2023 Calculus
  - Select PHY 2013 College Physics I
  - Select STA 2023, Statistical Methods I

- **B. Social Science Requirement**
  - Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics

- **C. Humanities Requirement**
  - Select ENG 1101, ENG 1102

- **D. Writing Requirement**
  - Select ENC 1101, ENC 1102

#### 3. Core Requirements (42 hrs)

- **A. Computing Core (18 hrs)**
  - Select COP 3223  
  - Select COP 3502C

- **B. Computing Core (15 hrs)**
  - Select COP 3503  
  - Select EEL 3041

- **C. Computing Core (9 hrs)**
  - Select COP 4610L
  - Select CGS 2545C

- **D. Computing Core (9 hrs)**
  - Select COP 4910

- **E. Computing Core (9 hrs)**
  - Select COP 4749

- **F. Computing Core (9 hrs)**
  - Select COP 4752

- **G. Computing Core (9 hrs)**
  - Select CET 4483

- **H. Computing Core (9 hrs)**
  - Select CET 4483

- **I. Computing Core (9 hrs)**
  - Select CET 4483

- **J. Computing Core (9 hrs)**
  - Select CET 4483

- **K. Computing Core (9 hrs)**
  - Select CET 4483

- **L. Computing Core (9 hrs)**
  - Select CET 4483

- **M. Computing Core (9 hrs)**
  - Select CET 4483

- **N. Computing Core (9 hrs)**
  - Select CET 4483

- **O. Computing Core (9 hrs)**
  - Select CET 4483

- **P. Computing Core (9 hrs)**
  - Select CET 4483

- **Q. Computing Core (9 hrs)**
  - Select CET 4483

- **R. Computing Core (9 hrs)**
  - Select CET 4483

- **S. Computing Core (9 hrs)**
  - Select CET 4483

- **T. Computing Core (9 hrs)**
  - Select CET 4483

- **U. Computing Core (9 hrs)**
  - Select CET 4483

- **V. Computing Core (9 hrs)**
  - Select CET 4483

- **W. Computing Core (9 hrs)**
  - Select CET 4483

- **X. Computing Core (9 hrs)**
  - Select CET 4483

- **Y. Computing Core (9 hrs)**
  - Select CET 4483

- **Z. Computing Core (9 hrs)**
  - Select CET 4483

- **AA. Computing Core (9 hrs)**
  - Select CET 4483

- **BB. Computing Core (9 hrs)**
  - Select CET 4483

- **CC. Computing Core (9 hrs)**
  - Select CET 4483

- **DD. Computing Core (9 hrs)**
  - Select CET 4483

- **EE. Computing Core (9 hrs)**
  - Select CET 4483

- **FF. Computing Core (9 hrs)**
  - Select CET 4483

- **GG. Computing Core (9 hrs)**
  - Select CET 4483

- **HH. Computing Core (9 hrs)**
  - Select CET 4483

- **II. Computing Core (9 hrs)**
  - Select CET 4483

- **JJ. Computing Core (9 hrs)**
  - Select CET 4483

- **KK. Computing Core (9 hrs)**
  - Select CET 4483

- **LL. Computing Core (9 hrs)**
  - Select CET 4483

- **MM. Computing Core (9 hrs)**
  - Select CET 4483

- **NN. Computing Core (9 hrs)**
  - Select CET 4483

- **OO. Computing Core (9 hrs)**
  - Select CET 4483

- **PP. Computing Core (9 hrs)**
  - Select CET 4483

- **QQ. Computing Core (9 hrs)**
  - Select CET 4483

- **RR. Computing Core (9 hrs)**
  - Select CET 4483

- **SS. Computing Core (9 hrs)**
  - Select CET 4483

- **TT. Computing Core (9 hrs)**
  - Select CET 4483

- **UU. Computing Core (9 hrs)**
  - Select CET 4483

- **VV. Computing Core (9 hrs)**
  - Select CET 4483

- **WW. Computing Core (9 hrs)**
  - Select CET 4483

- **XX. Computing Core (9 hrs)**
  - Select CET 4483

- **YY. Computing Core (9 hrs)**
  - Select CET 4483

- **ZZ. Computing Core (9 hrs)**
  - Select CET 4483

#### 4. Support Courses (6 hrs)

- **A. Support Courses**
  - Select ENC 3241
  - Select CRW 3013

#### 5. Restricted Electives (15 hrs)

- **A. Restricted Electives**
  - Select COP 3900
  - Select COP 4910
a cohesive set of courses. Many departments have plans whereby students can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

6. School Exit Requirements
- Complete an exit interview with an assigned faculty advisor
- Computer competency met by completion of major

7. Free Electives (17 hrs)

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

Total Semester Hours Required: 120 hours

Related Programs: Computer Science, Computer Engineering, Management Information Systems

Related Minors and Certificates: Computer Information Technology, Computer Science

Transfer Notes:
- Grades below “C” (2.0) are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

INTERPERSONAL COMMUNICATION (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 258
407-823-2852
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu

K. Phillip Taylor

Admission Requirements
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 enrolling both a major and a minor in the School must take the minor courses in excess of the 120 hours required for graduation
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

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

B. Cultural and Historical Foundations
Select MGF 1106 Finite Mathematics 3 hrs
Select STA 2014 Principles of Statistics 3 hrs

C. Mathematical Foundations
Select STA 2014 Principles of Statistics 3 hrs

D. Social Foundations
Select SPC 1600 Fund Oral Communication 6 hrs

E. Science Foundations
Select SPC 1600 Fund Oral Communication 6 hrs

2. Common Program Prerequisites

3. Core Requirements (21 hrs)

STA 2014 Principles of Statistics GEP
COM 3011C Communication & Human Relations 3 hrs
COM 3311 Communication Research Methods 3 hrs
PUR 4100C 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

4. Electives (9 hrs)
Select from the following list:
SPC 3513 Argumentation and Debate
COM 4014 Gender Issues in Communication
COM 4461 Intercultural Communication
COM 4462 Conflict Management
COM 4941 Internship
COM 4XXX Communication and the Family

5. Upper Division Restricted Electives (9 hrs)
A minimum of nine upper division credit hours selected from Social Science courses in Anthropology, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

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 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. May be outside of the School of Communication.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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: Organizational Communication
Related Minors: Organizational 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.

JOURNALISM (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 252, 407-823-2858,
http://www.cas.ucf.edu/communication
E-mail: journalism@ucf.edu
M. Santana
Limited Access program
A. Communication Foundations

1. UCF General Education Program (36 hrs)

- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
  - October 1, 2004 for Spring 2005
  - February 1, 2005 for Summer 2005
  - July 1, 2005 for Fall 2005
- Attain an overall minimum 2.25 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off for the previous acceptance cycle was 2.5.
- Admission is not strictly based on GPA.
- Meet a grammar proficiency standard. Students with an “A” in both ENC 1101 and ENC 1102 have satisfied the requirement. All others must pass a grammar proficiency exam administered by UCF.
- Have acceptable keyboard skills.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- The Journalism faculty strongly recommends that majors work for a student newspaper. In addition, majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine. To enroll for credit, students must have a 2.5 GPA in their required major courses. Students with less than a 2.5 GPA will not be given academic internship credit. A maximum of 3 internship credit hours may be earned within the 120 required for graduation.
- A portfolio of representative work must be submitted to, and approved by, a faculty committee at least one semester before graduation. At least 75% of the work must be produced while at UCF.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a school advisor.
- School Residency Requirement consists of at least 24 semester hours including JOU 2100C and regularly scheduled 3000-4000 level courses taken from the UCF School of Communication.
- 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.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td></td>
</tr>
<tr>
<td>Select ENC 1101 &amp; 1102 Composition</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select SPC 100 Fund Oral Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select MGF 1106 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>(may substitute a higher level math)</td>
<td></td>
</tr>
<tr>
<td>Select CGS 1060C Intro to Computer Sci or STA 2014C Principles of Stats</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 (0 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 1600 Fund Oral Communication GEP</td>
<td></td>
</tr>
</tbody>
</table>

3. Core requirements (30 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 3004 History of American Journalism</td>
<td>3 hrs</td>
</tr>
<tr>
<td>JOU 2100C News Reporting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>JOU 3101 Advanced News Reporting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>JOU 3200 Editing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>JOU 3202 Editing II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>JOU 4181 Public Affairs Reporting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>JOU 4300 Feature Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MMC 4200 Mass Communication Law</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MMC 4602 Contemporary Media Issues</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PGY 3610C Photojournalism I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

*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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUPGY Elective</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

5. Required Minor: (18 hrs minimum)

- Journalism majors must complete an 18 hour minor in an academic area outside of the School of Communication. When no official minor is offered, students may complete a 18-credit-hour area of concentration approved by the Faculty.

6. School Exit Requirements

- Acceptance of portfolio by faculty
- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Achieve an overall “C” GPA (2.0) in required UCF Journalism courses. This GPA does not include Restricted Electives in the major or other electives.
- Computer competency met by program admission test

7. Foreign Language Requirements (0-8 hrs)

- Admission: Met by graduation requirement
- Graduation: 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 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 residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Technical Writing, Creative Writing

Related Minors: Creative Writing, History, Literature, Linguistics, Magazine Journalism (not available to Journalism majors), Political Science, Sociology, Technical Writing, Writing

Transfer Notes:

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

LEGAL STUDIES (B.A., B.S.)

Undergraduate Program Director and Pre-Law Advisor: David Slaughter
E-mail: dslaught@mail.ucf.edu

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- 33 hours of PLA coursework must be taken at UCF
- 2.0 in all PLA work at UCF and overall

1. UCF General Education Program (36 hrs)

- A. Communication Foundations

UCF Degree Programs
Related Programs: Business Administration, Criminal Justice, History, Political Science, Public Administration, Sociology

Related Minors: Business Administration, Criminal Justice, Political Science, Public Administration, Sociology

Transfer Note:
Courses taken at community colleges do not substitute for Upper Division courses.

Minor
The Legal Studies Minor consists of 21 or more semester hours. Required courses: PLA 3013 plus a minimum of 15 semester hours of legal studies courses and three semester hours of law-related courses selected with the aid of an advisor.

Tentative Course Schedule for Entering Freshmen

Freshman Year*
Fall 14 hrs Spring 15/16 hrs
ENC 1101 3
PSY 2012 or SYG 2000 3
MGF 1106 3
BSC 1005 3
For. Lang. I or B.S. option 3/4
PAP 2102 2

Sophomore Year
Fall 15/16 hrs Spring 15 hrs
ANT 2511 or GLY 1030 3
or GEO 1200 3
SPC 1600 3
EUH 2000 or HUM 2211 3
or AMH 2010 3
For. Lang. II or B.S. option 3/4
Elective 3
Bio. Lang. or B.S. option 3/4
PAP 2101 2

Junior Year
Fall 15 hrs Spring 15 hrs
PLA 3104 3
PLA 3201 3
PLA Elective 3
PLA Elective 3
Supporting Elective 3
Supporting Elective 3

Senior Year
Fall 15 hrs Spring 15 hrs
PLA Elective 3
Internship or PLA Elective 3
Supporting Elective 3
Supporting Elective 3
Elective or elective 3
Elective or elective 3

LIBERAL STUDIES (B.A., B.S.)
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Liberal Studies is a university-wide program leading to either the Bachelor of Arts or the Bachelor of Science in Liberal Studies, depending on the majority of course areas selected in consultation with a Liberal Studies advisor.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that there are many combinations of courses which meet the needs of individual students.

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 dis-
and completion of the minor certified by, the department offering the minor is eighteen. The minor degree audit must be approved by, independent study forms must be approved by the director prior to taking an independent study 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. 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 3 hrs (may substitute a higher level math)
   Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics 3 hrs (may substitute a higher level computer science or statistics course)
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Restricted Electives (36 hrs)
   Students must complete two different subject area concentrations from among those specified below.
   Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
   Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined.
   See the Liberal Studies Advising Team for details regarding each area.

Arts
  Behavioral and Social Sciences
  Biological Sciences
  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 Foreign 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 Foreign 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 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.

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: computersonce@ucf.edu
Mark Llewellyn, 407-823-2341

There are numerous opportunities in industry for qualified people to work in the broad area of Information Technology (IT). Computer Science represents only a part of this IT umbrella. Students can go beyond a narrower technical focus to include system, network, and database administration: business principles and behavior; social science behavior and theories; and other areas.

This LS-CIT track fills the gap between the fully accredited degree
program in Computer Science which emphasizes the scientific aspects of computing, and the needs of the IT industry for people with skills in broader areas of information technology. By completing this track within Liberal Studies, students can accentuate those areas of computer information and application, while de-emphasizing the mathematical and physical science components of Computer Science.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the 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 Minor in CIT (36 hrs)
   - Students must complete a minor in Computer Information Technology (CIT). See the CIT minor for requirements.

4. Restricted Electives (18 hrs)
   - Students must complete a minimum of 18 hours of approved courses in one Liberal Studies subject area from those listed below (excluding GEP courses) of which a minimum of nine hours must be UCF hours and a minimum of nine upper level hours
   - Students are strongly encouraged to take upper level courses in each area
   - See the Liberal Studies Advising Team for details regarding each area
   - Arts
   - Behavioral and Social Sciences
   - Biological Sciences
   - Commerce
   - Communication
   - Computer Science
   - 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 CIT minor
   - Computer Competency is met by CIT minor.

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   - Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Foreign 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 residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Computer Science, Liberal Arts Track, Environmental Studies Track, Women’s Studies Track, Digital Media

Related Minors: None

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- 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 - 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 program. The student must provide all supporting information.

Arts
Behavioral and Social Sciences
Biological Sciences
Communications
Computer Science
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 CIT minor
   - Computer Competency is met by CIT minor.
1. UCF General Education Program (36 hrs)  
(Note: The italicized courses fulfill both the program requirements and the GEP. These required selections may raise the total GEP hours.)  
A. Communication Foundations 9 hrs  
B. Cultural and Historical Foundations 9 hrs  
C. Mathematical Foundations 6 hrs  
Select MAC 2311 Calculus (PR: MAC 1105 and MAC 1114 or equivalent)  
Select STA 2023 Statistical Methods I  
D. Social Foundations 6 hrs  
E. Science Foundations 6 hrs  
Select BSC 2010C General Biology  
Select CHM 2045C Chemistry Fundamentals (PR: High school chemistry or CHM 1031)  

2. Common Program Prerequisites none  

3. Core for Environmental Studies (23 hrs)  
(Note: PHY 2053C College Physics (PR: MAC 1105 and 1114 or equivalent) is required to complete the Environmental Sciences: Sciences concentration  
A. Physical/Mathematical Sciences  
CHM 2040C Chemistry Fundamentals I & Lab GEP  
MAC 2233 Concepts of Calculus (or equivalent) GEP  
CHM 2046 Chemistry Fundamentals II & Lab 4 hrs  
CHM 2205 Introduction to Organic & Biochemistry 5 hrs  
B. Life Sciences  
BSC 2010C General Biology GEP  
BSC 2011C Biological Diversity 4 hrs (PR: BSC 2010C)  
PCB 3034 Principles of Ecology & Lab 4 hrs (PR: BSC 2011C)  
PCB 3034L Principles of Ecology & Lab 4 hrs (PR: BSC 2010C and BSC 2011C)  
C. Social Science & Humanities  
PHI 3640 Environmental Ethics 3 hrs  
SYD 4510 Environmental Sociology 3 hrs  

4. Subject Area: Environmental Studies Fundamentals (16 hrs)  
IDS 3150 Foundations of Environmental Studies 3 hrs  
ECP 3330 Economics and the Environment 3 hrs  
GEO 3151C GIS for Environmental Studies & Lab 4 hrs  
or equivalent  
PUP 3203 Environmental Politics 3 hrs  
IDS 4156 Solving Environmental Problems 3 hrs  

5. Subject Areas: Restricted Electives (18 hrs)  
Students will complete one of the concentrations listed below. Each concentration requires a minimum of eighteen credit hours. A student completing the Environmental Studies core can reasonably expect to meet entry requirements for most electives listed.  
Select 18 hours in one concentration  

Sciences Concentration  
(Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.  

BCH 4053 Biochemistry I (PR: CHM 2210 & 2211)  
BCH 4054 Biochemistry II (PR: BCH 4053)  
BOT 3152C Local Flora  
BOT 4156C Florida Wildflowers  
BOT 4033C Plant Kingdom  
BOT 4696C Conservation Management of Native Plants  
BOT 4713C Plant Taxonomy  
BOT 5623C Plant Geography and Ecology  
BSC 4312C Marine Biology  
CHM 3120C Analytical Chemistry  
CHM 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 Micro (PR: MCB 3020C)  
PCB 3023 Molecular Cellular Biology  
PCB 3063 Genetics  
PCB 3414 Marine Biodiversity  
PFA 3442 Florida Aquatic Ecology  
PCB 4302C Physiochemical Limnology  
PCB 4303C Biological Limnology  
PCB 4683 Population Biology & Evolution (PR: PCB 3063)  
PCB 4723 Animal Physiology  
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.  

Values, Planning, & Policy Concentration  
(Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.  

ANT 3541 Biocultural Anthropology  
BOT 3800 Ethnobotany  
ECO 4302 Economics of the Environment  
ECP 4603 Urban and Regional Economic Prob  
ECS 4013 Economic Development  
ENC 3211 Theory/Prac Tech Writing*  
ENC 3241 Writing/Technical Professional*  
EGN 4033 Technology and Social Change  
ETI 3671 Technical Economic Analysis  
ETI 4635 Technical Administration  
GEO 4131C Remote Sensing of Environment  
INR 3451 International Environmental Law  
PAD 4351 Issues in Environmental Program Mgmt  
PHI 3033 Philosophy, Religion, & the Environment  
PHI 4400 Philosophy of Science  
PUP 4503 Government and Science  
PHI 4633 Ethics and Biological Science  
PHM 4031 Environmental Philosophy  
PLA 4631 Land Use and Environmental Law  
PUP 4204 Sustainability  
PUP 4209 Urban Environmental Policy  
PUP 4XXX GIS for Political Scientists*  
PUP 4503 Government and Science  
STA 4163 Statistical Methods II  
STA 4164 Statistical Methods III*  
STA 4165 Stat Methods II - Computer emphasis*  
STA 4222 Sample Survey Methods*  
STA 4970H Thesis 3 hrs  
IDS 4970H Thesis 3 hrs  

*Note: Not more than 9 of the 18 credits required can be taken in the "Modes of Analysis and Communication" area as identified by asterisks.  

Technology Concentration  
(Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.  

ETI 3671 Technical Economic Analysis  
ETI 4635 Technical Administration  
EGN 4033 Technology and Social Change  
EGN 4813 Science in History  
EGN 4814 Technology in History  
EGN 4816 Technology Analysis  
EGN 4824 Energy & Society  
EGN 4825 Environment & Society  

Central Florida Environment Concentration  
(Note: This subject area is available only to Liberal Studies - Environmental Studies track majors. A separate application for this specialization is required. GPA must be no lower than 3.5 in at least 30 upper division credits of this program, letters from two faculty sponsors, and an internship or international experience tied to a government or non-profit agency, a business, or a faculty grant project. Students must take an internship and directed research for at least 18 credits total:  
IDS 4XXX Internship 6-9 hrs  
IDS 4XXZ International Experience 3-6 hrs  
IDS 4XXX Directed Research 3 hrs  
IDS 4970H Thesis 3 hrs  

6. Program Exit Requirements (0-8 hrs)  
■ A grade of "C" or above (2.0) is required for all courses taken in each of the subject areas and core  
■ Computer Competency is met by completing this major  

7. Foreign Language Requirements (0-8 hrs)  
Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation  
Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Foreign 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 students seeking an individualized, interdisciplinary, non-traditional major. The degree program is administered through the Office of Liberal and Interdisciplinary Studies within the College of Arts and Sciences.

Admission Requirements
- None

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each restricted elective course.
- Co-op or internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Students must consult with a Liberal Studies advisor before entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- No courses can count in more than one subject area or in a subject area and a minor.
- 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
      1. English Composition 3 hrs
      2. Oral Communication 3 hrs
      3. Public Speaking 3 hrs
   B. Cultural and Historical Foundations 9 hrs
      1. History 3 hrs
      2. Social Science 3 hrs
      3. Liberal Education Requirement 3 hrs
   C. Mathematical Foundations 6 hrs
      1. Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
      2. Select CIS 1060C Intro to Computer Sci or STA 1014C Principles of Statistics or STA 1060C Statistics Using Excel (may substitute a higher level computer science or statistics course) 3 hrs
   D. Social Foundations 6 hrs

2. Common Program Prerequisites
   None

3. Core Requirements (6 hrs)
   A. Approved course in ethics 3 hrs
   B. Approved course in critical thinking 3 hrs

4. Restricted Electives (42 hrs)
   Complete a minor from those offered within UCF’s College of Arts and Sciences
   Complete an approved individualized minor 24 hrs which must be developed with a Liberal Studies advisor

5. Program Exit Requirements (6 hrs)
   - IDS 49XX Directed Reading/Research 3 hrs
   - IDS 4970H Thesis 3 hrs

   - Maintain a minimum GPA of 3.5 in all Liberal Arts Track courses
   - Maintain a minimum GPA of 3.2 in all upper division courses
   - Computer Competency met by IDS 4970H

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.

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

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

Total Semester Hours Required 120 hours

Related Programs: Liberal Studies Track, CIT Track, Environmental Studies Track, Women’s Studies Track
Related Minors: All College of Arts and Sciences minors
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- 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 - NANO SCIENCE & NANOTECHNOLOGY 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 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.

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...
3. Restrictive Electives (36 hrs)

Students must complete both subject area concentrations from among those specified below.

- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses).
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined.
- See the Liberal Studies Advising Team for details regarding each area.

**Subject Area #1**
- Nanoscience and Nanotechnology Area

**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)
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**

- 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.

**Program** in the College of Arts and Sciences.

**Liberal Studies.** The program is administered through the Office of UCF Degree Programs.

**Degree Requirements**

**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 - 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 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
   - WST 34XX: Women of Color/Womanist Studies 3 hrs
   - Select 15 hours from the following courses:
     - AML 3614: Topics in African-American Literature 3 hrs
     - ANT 4308: Gender Issues in Latin America 3 hrs
     - ASH 4304: Women in China 3 hrs
     - LIT 3354: Ethnic Literature in America 3 hrs
     - SYD 3751: North American Indian Women Today 3 hrs

2. **Common Program Prerequisites**

   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 UCF hours, as well as 18 upper division hours, in the two areas combined.

   **First Study Area (or select Women’s Studies Cognate Area)**
   **Womanist/Women of Color Area:** (18 hrs)
   - WST 34XX: Women of Color/Womanist Studies 3 hrs
   - Select 15 hours from the following courses:
     - AML 3614: Topics in African-American Literature 3 hrs
     - ANT 4308: Gender Issues in Latin America 3 hrs
     - ASH 4304: Women in China 3 hrs
     - LIT 3354: Ethnic Literature in America 3 hrs
     - SYD 3751: North American Indian Women Today 3 hrs
   - Other courses approved by the Liberal Studies Advising Team

   **Second Study Area (or select Womanist/Women of Color Area)**
   **Women’s Studies Cognate Area:** (18 hrs)
   - Select 18 hours from the following courses:
     - AML 3614: Topics in African-American Literature 3 hrs
     - AML 4261: Literature of the South 3 hrs
     - ANT 3212: Peoples of the World 3 hrs
     - CCJ 4663: Cultural Diversity in Criminal Justice 3 hrs
     - CCJ 4681: Domestic Violence and the Justice System 3 hrs
     - EUH 3242: Modern Europe and the First World War 3 hrs
     - EUH 5937: Social Theory/History* 6 hrs
     - HSC 3593C: HIV Disease: A Human Concern 3 hrs
     - LIN 4643: Cross Cultural Communication 3 hrs
     - LIT 3354: Ethnic Literature in America 3 hrs
     - LIT 5556: Feminist Theory* 6 hrs
     - PEM 2405: Self-Defense for Women and Men 3 hrs
     - PHI 3640: Environmental Ethics 3 hrs

   Other courses may be utilized for this area with the permission of the director.

   *Undergraduate students will need professor’s permission to register for graduate-level courses.

   Relevant Special Topics courses are periodically offered through various departments; with prior approval from the Women's Studies Director, some courses may substitute.

2nd Study Area (from those below)

See the Liberal Studies Advising Teams for details regarding each area.

**Arts**

- Behavioral and Social Sciences
- Biological Sciences
- Commerce
- Communication
- Computer Science
- Education
- Engineering
- Health
- Humanities
- Languages
- Letters
- Mathematical Sciences
- Physical Sciences
- Public Affairs

4. **Required Minor** (18 hrs)

   Students must complete the Women’s Studies minor.

5. **Program Exit Requirements**

   - A grade of “C” or above (2.0) is required for each course taken in each of the subject areas.
   - Computer Competency is met by CGS 1060C, STA 1060C, or departmental assessment.

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

   **Admission:** 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.

   **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 residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

   **Total Semester Hours Required**

   **120 hours**

   **Related Programs:** Liberal Studies - Liberal Studies track; Liberal Studies - Liberal Arts track
Students must take 60 semester hours in courses outside the College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors. Students must earn at least a 2.0 GPA in the major and COB. Students majoring in Management must earn a grade of "C" (2.0) or better in MAN 3025, MAN 4720, and each course applied toward the major.

5. Tracks
Within the Management major, students can concentrate in 3 areas of study. Courses for each are outlined below:

- **Human Resource Management Track** (24 hrs)
  - Required Courses (15 hrs)
    - MAN 3301 Human Resource Management 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)
    - ISM 3530 Human Resources Management 3 hrs
    - MAN 4802 Entrepreneurship 3 hrs
    - MAN 4XX Business Plan Preparation 3 hrs
    - GEB 4111 New Venture Finance 3 hrs
    - FIN 3470 Small Business Finance 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
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 semester 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 cal-
UCF Degree Programs

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Students should choose to major in one of the two areas of study below

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS

Freshman
First Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3
ENC 1102* 3
Cult-Hist I* 3
Cult-Hist II* 3
SPC 1000 3
***Elective 3
***Elective 3
**MAN Elective 3
 Must complete nine hours in a summer semester

Sophomore
1st Term 15 hrs
ECO 2023* 3
ACG 2011* 3
***Elective 3
***Elective 3
***General electives as required to reach 120 semester hours.

3rd Year (Senior)
First or subsequent semesters depending on major:
First Semester in the College of Business Administration:
GEB 3031 3
MAN 3025 3
**MAN Elective 3

Second Semester:
MAN 4240 3
**MAN Elective 3
MAN 4320 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
1st Term 15 hrs 2nd Term 15 hrs
GEB 3031 6
MAN 4802 3
BUL 3130 3
MAN 4073 3
MAR 3023 3
FIN 3403 3
**MAN Elective 3

Senior
1st Term 15 hrs 2nd Term 15 hrs
GEB 3200/3200 3
MAN 4720 3
MAR 3404/3600 3
MAN 4073 3
MAN 4073 3
MAR 4073 3
**MAN 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

MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)
College of Business Administration

Degree Requirements

1. UCF General Education Program
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundation
   (36 hrs)
   9 hrs
   9 hrs
   3 hrs
   3 hrs
   6 hrs

2. Common Program Prerequisites
   Must be completed with a 2.5 or better.
   ACG 2011 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2023 Microeconomics
   ECO 3401 Quantitative Business Tools I
   *ECO 3401 Quantitative Business Tools I

3. Required for All Business Majors
   (30 hrs)
   Common Body of Knowledge
   First Semester in the College of Business Administration:
   GEB 3031 Cornerstone
   GEB 3356 Introduction to International Business
   First or subsequent semesters depending on major:
   GEB 3130 Legal & Ethical Environments of Business
   ECO 3411 Quantitative Business Tools II
   FIN 3403 Business Finance
   MAN 3025 Management of Organizations
   MAR 3023 Marketing
   ISM 3011 Essentials of Management Info Systems
   Last Semester:
   MAN 4720 Strategic Management
   6 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs

4. Special college and/or department requirements:
   - Students must complete 60 semester hours in courses outside the College of Business
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.5 GPA in Common Program Prerequisites.
Final exams will be given during Exam Week.

Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

All College of Business Administration Common Body of Knowledge courses and courses required for the major (including electives) must be completed with a grade of “C” (2.0) or better in order to graduate.

All College of Business Administration students are expected to have access to late model computers and the software needed to complete class assignments. This requirement is especially important for MIS majors. Contact a department advisor for the current expectations.

Students are cautioned to study the course prerequisite structure and the Four Year Plan of Study later in this section when planning their schedules. MIS course prerequisites cannot be waived.

Lower division courses may not be taken for upper division credit in the major.

Students must earn at least a 2.0 GPA in the major and COB.

Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisite class.

5. Required Courses (21 hrs)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ISM 3005</td>
<td>MIS Techniques</td>
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<tr>
<td>ISM 4113</td>
<td>Information Systems Analysis &amp; Design</td>
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<tr>
<td>ISM 4130</td>
<td>Information Systems Implementation</td>
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<tr>
<td>ISM 4212</td>
<td>Database Management Systems</td>
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<tr>
<td>ISM 4220</td>
<td>Distributed Information Systems</td>
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<tr>
<td>ISM 4300</td>
<td>Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 4400</td>
<td>Decision Support Systems</td>
<td>3</td>
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</tbody>
</table>

Plus two of the following: (6 hrs)

Any 3000 or 4000 level ISM prefix course, excluding those listed in the minor.

Any 3000 or 4000 level Computer Science prefix course (CDS, CGS, COP, COT).

MAN 4240 Organizational Theory & Behavior 3 hrs

May substitute the following with department approval:

AGC 4401 Accounting Information Systems 3 hrs

FIN 4463 Financial Models 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 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 X11 will substitute for ACG 201 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college. This includes the areas of MIS, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

<table>
<thead>
<tr>
<th>Term</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
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<tbody>
<tr>
<td>Freshman</td>
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<tr>
<td>1st Term</td>
<td>ENC 1101*</td>
<td>ENC 1102*</td>
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<td>2nd Term</td>
<td>Cull-Hist I*</td>
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<td>Must complete nine hours in a summer semester</td>
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<td>Sophomore</td>
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<td>ECO 2023*</td>
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<tr>
<td>2nd Term</td>
<td>ACG 2021*</td>
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<td>Psy/Soc/Ant</td>
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<td>***Elective</td>
<td>ECO 3401*</td>
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<td>* “C” (2.0) or better grade required in each class</td>
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<td>1st Term</td>
<td>ISM Elective</td>
<td>MAN 4720</td>
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<td>ISM 4930</td>
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<td>***General electives as required to reach 120 semester hours</td>
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</table>

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)
   - Communication Foundations 9 hrs
   - Cultural and Historical Foundations 9 hrs
   - Mathematical Foundations 3 hrs
   - Select MAC 1105 College Algebra 3 hrs
   - Select CDS 2100C Computer Fundamentals for Bus 3 hrs
   - Social Foundations 3 hrs
Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
E. Science Foundation 6 hrs

2. Common Program Prerequisites
Must be completed with a "C" (2.0) or better.
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting
ECO 2013 Microeconomics
ECO 2023 Microeconomics
*ECO 3401 Quantitative Business Tools I
CGS 2100C: Computer Fundamentals for Business
*All UCF, students who have completed MAC2333 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 Gateway to International Business 6 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 3111 Essentials of Management Information Systems 3 hrs
MAR 3023 Marketing 3 hrs
Last Semester:
MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in 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 at 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 3903 Customer Behavior 3 hrs
MAR 3513 Marketing Analysis and Research 3 hrs
MAR 3641 Marketing Intelligence 3 hrs
MAR 4803 Marketing Management 3 hrs
MAR 4804 Marketing Strategy 3 hrs

6. Restricted Electives (9 hrs)
Minimum of 3 courses required
MAR 3323 Integrated Marketing Communication 3 hrs
MAR 3403 Sales Force Management 3 hrs
MAR 3880 E-Marketing 3 hrs
*MAR 4156 International Marketing 3 hrs
MAR 4231 Retailing Management 3 hrs
MAR 4711 Sport Marketing 3 hrs
MAR 4712 Healthcare Marketing 3 hrs
*MAR 4724 Strategic Found. in Global E-Business 3 hrs
MAR 4841 Services Marketing 3 hrs
MAR 4941 Marketing Internship 3 hrs
* either MAR 4156 or MAR 4724 (not both) may be taken as an elective.

7. 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
Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or take the small business consulting class (MAR 5941). MAR 5941 cannot count as one of the three restricted electives required of marketing majors. For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: http://www.bus.ucf.edu/mar/

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - MARKETING

Freshman
1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3 ENC 1102* 3
Cult-Hist * 3 Cult-Hist II* 3
SPC 1600 3 ArtMusicLit 3
***Elective 3 ***Elective 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
Psych/SocAnt 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 12 hrs
ECO 3411 3 MAR 3901 3
GEB 2021 6 BUL 2120 3
GEB 3356 3 FIN 3403 3
MAR 3023 3 MAR 3503 3
MAR 3613 3
General electives as required to reach 120 semester hours.

**MATHEMATICS-APPLIED TRACK (B.S.)**

**College of Arts and Sciences**

**Department of Mathematics, MAP 207 407-823-6284**

http://math.ucf.edu

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

H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

**Admission Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, 2312, 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Math Department.
- Co-op or internship credit cannot be used in this major.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. **UCF General Education Program** *(36 hrs)*

   (Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

   **A. Communication Foundations**
   - 9 hrs
   
   **B. Cultural and Historical Foundations**
   - 9 hrs
   
   **C. Mathematical Foundations**
   - Select MAC 2311 Calculus I
   - Select COP 3502C Computer Science I
   - 3 hrs
   
   **D. Social Foundations**
   - 6 hrs
   
   **E. Science Foundations**
   - Select BSC 2010C General Biology or
   - CHM 2045C Chemistry Fundamentals I
   - Select PHY 2048 & L Physics for Sci & Eng I
   - 4 hrs

2. **Common Program Prerequisites** *(11 hrs)*

   **COP 3223** C Language
   - 3 hrs
   
   MAC 2311 Calculus I
   - GEP
   
   MAC 2312 Calculus II
   - 4 hrs
   
   MAC 2313 Calculus III
   - 4 hrs
   
   BSC 2010C* General Biology or
   
   CHM 2045C* Chemistry Fundamentals I
   - GEP
   
   PHY 2048* & L Physics for Sci & Eng I & Lab
   - GEP

   *See Transfer Notes for possible substitutes

3. **Core requirements** *(48 hrs)*

   **PHY 2049 & L** Physics for Sci & Eng II & Lab
   - 4 hrs
   
   One course selected from
   
   ENC 3241 Technical Report Writing
   ENC 3310 Magazine Writing
   ENC 3311 Advanced Expository Writing
   STA 2023 Statistical Methods I
   MTH 3302 Logic and Proof in Mathematics
   MAP 2302 Differential Equations
   MAS 3105 Matrix & Linear Algebra
   MAS 3106 Linear Algebra
   
   Select one course
   
   MAD 4203 Combinatorics & Graph Theory
   MAP 4153 Vector and Tensor Analysis
   MAP 4307 Appl of Complex Variables
   MAP 4363 Appl Boundary Value Prob I
   STA 4321 Statistical Theory I
   MAP 4364 Appl Boundary Value Prob II
   - 3 hrs

   COP 3502C Computer Science I
   - GEP
   
   STA 4322 Statistical Theory II
   - 3 hrs
   
   STA 4202 Advanced Calculus I
   - 4 hrs
   
   COP 4500 Numerical Calculus
   - 3 hrs
   
   MAP 4103 Mathematical Modeling
   - 3 hrs

4. **Restricted Electives** *(10 hrs)*

   Applied Elective
   - Select from COP 4210, COP 4110, COP 5507, COP 5510, EGN 3310, EGN 3321, EGN 3343, EGN 3373, STA 4103, STA 5025, STA 4642
   - 3 hrs

   Biological or physical sciences restricted
   - Select from PCB 3034, PCB 3063, PCB 4302C, PCB 4303C, CHM 3410, CHM 2210, PHY 3101, PHY 3323, PHY 4224, PHY 4424, PHY 4604

5. **Departmental Exit Requirements**

   - Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-4 above).
   - Participate in an exit interview, 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 profiency exam) prior to graduation.

   **Graduation:**
   - none

7. **Electives** *(variable)*

   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. **University Minimum Exit Requirements**

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

**Total Semester Hours Required**

120 hours

**Related Programs:** 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**

- COP 3223* may use any programming language course with a COP prefix
- BSC 2010C* or CHM 2045C*: may use any laboratory BSC or CHM course which is designed for majors
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

**MATHEMATICS - COMPUTATIONAL TRACK (B.S.)**

**College of Arts and Sciences**

**Department of Mathematics, MAP 207 407-823-6284**

http://math.ucf.edu

E-mail: math@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students

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UCF Degree Programs

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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, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 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 4 hrs
- Select MAC 2311 Calculus I 4 hrs
- Select COP 3502C Computer Science I 3 hrs
- D. Social Foundations 6 hrs
- Select E. Science Foundations 4 hrs
- Select COP 3100C General Biology or CHM 2045C Chemistry Fundamentals I 4 hrs
- Select MAC 2312 Calculus II 4 hrs
- MAC 2313 Calculus III 4 hrs
- BSC 2010C* General Biology
- CHM 2045C* Chemistry Fundamentals
- Select one course 3 hrs
- Select PHY 2048 & L Physics for Sci & Engr I 4 hrs

2. Common Program Prerequisites (11 hrs)
- COP 3223* C Language 3 hrs
- MAC 2311 Calculus I GEP
- MAC 2312 Calculus II 4 hrs
- MAC 2313 Calculus III 4 hrs
- BSC 2010C* General Biology or CHM 2045C* Chemistry Fundamentals GEP
- PHY 2049* & L Physics for Sci & Engr I w/lab 4 hrs
- Select one course 3 hrs
- *See Transfer Notes for possible substitutes

3. Basic Core Requirements (10 hrs)
- COP 3502C Computer Science I 4 hrs
- PHY 2049* & L Physics for Sci & Engr I 4 hrs
- STA 2023 Statistical Methods I 3 hrs
- MAP 2302 Differential Equations 3 hrs

4. Advanced Core Requirements (42 hrs)
- Select one course 3 hrs
- MTH 3302 Logic and Proof in Mathematics
- COP 3110C Intro to Discrete Structures
- ENC 3241 Technical Report Writing
- MAS 3106 Linear Algebra
- MAC 4203 Combinatorics & Graph Theory
- MAP 3407 Appl of Complex Variables
- MAP 3463 Appl Boundary Value Prob I 3 hrs
- STA 3421 Statistical Theory I 3 hrs
- MAP 3464 Appl Boundary Value Prob II 3 hrs
- COP 3502C Computer Science II 3 hrs
- STA 3422 Statistical Theory II 3 hrs
- MAA 2266 Advanced Calculus I 4 hrs
- MAT 4500 Numerical Calculus 3 hrs
- Select one course 3 hrs
- MAP 4103 Mathematical Modeling
- MAP 4153 Vector and Tensor Analysis

5. Restricted Electives (18 hrs)
- Select six upper division courses
- COP 3402C Systems Software 3 hrs
- COP 3503C 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, MAP, MAS, or MTG upper division courses

6. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C.

7. Foreign Language Requirements

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

Graduation: none

8. Electives (variable)

Students desiring to complete a double major in both Computer Science and Applied Mathematics must also complete all the requirements of the School of Computer Science. To minimize the total hours taken for both majors, students should select an advanced computer science course for the unrestricted elective.

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

Total Semester Hours Required: 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C* or CHM 2045C*: may use any laboratory BSC or CHM course which is designed for majors.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHMATICS - ENGINEERING/ PHYSICS TRACK (B.S.)

College of Arts and Sciences
Department of Mathematics, MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, 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 (36 hrs)

(Noet: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

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<td>COP 3502C</td>
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<tr>
<td>BSC 2010C</td>
<td>General Biology or CHM 2045C Chemistry Fundamentals I</td>
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<td>PHY 2048L</td>
<td>Physics for Sci &amp; Eng I w/lab</td>
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### 2. Common Program Prerequisites (11 hrs)

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<tr>
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<tr>
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*See Transfer Notes for possible substitutes

### 3. Basic Core Requirements (10 hrs)

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### 4. Advanced Core Requirements (54 hrs)

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<td>Intro to Discrete Structures</td>
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<td>MAP 4103</td>
<td>Mathematical Modeling</td>
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<td>Modeling Meth in Mech. &amp; Aero Eng</td>
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<td>Computer Methods in Physics</td>
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<td>MAP 4307</td>
<td>Appl of Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>MAP 4363</td>
<td>Appl Boundary Value Prob I</td>
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</tr>
<tr>
<td>MAP 4364</td>
<td>Appl Boundary Value Prob II</td>
<td>3</td>
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<tr>
<td>MAA 4226</td>
<td>Advanced Calculus I</td>
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</tr>
<tr>
<td>EGN 3321</td>
<td>Engineering Analysis - Dynamics</td>
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</tr>
<tr>
<td>EGN 3420</td>
<td>Engineering Analysis</td>
<td>3</td>
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<tr>
<td>COT 4500</td>
<td>Numerical Calculus</td>
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</tr>
<tr>
<td>MAS 3106</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MAD 4203</td>
<td>Combinatorics &amp; Graph Theory</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3310</td>
<td>Engineering Analysis - Statics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3221</td>
<td>Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Principles of Electrical Engineering</td>
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</tr>
<tr>
<td>PHY 3210</td>
<td>Physics for Eng &amp; Sci III</td>
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<tr>
<td>CHM 2045C</td>
<td>Chemistry Fundamentals II</td>
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### 5. Restricted Electives (18 hrs)

Select three courses

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STA 4331</td>
<td>Statistical Theory I</td>
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<tr>
<td>STA 4342</td>
<td>Statistical Theory II</td>
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</tr>
<tr>
<td>PHY 3323</td>
<td>Electricity &amp; Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3424</td>
<td>Electricity &amp; Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Structure &amp; Property of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3613</td>
<td>Engineering Economic Analysis</td>
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</tr>
<tr>
<td>EGN 3704</td>
<td>Engineering &amp; the Environmental</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3342C</td>
<td>Intro to Digital Circuits and Systems</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3801C</td>
<td>Intro to Computer Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3857</td>
<td>Linear Control Systems</td>
<td>3</td>
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<tr>
<td>EML 4142</td>
<td>Heat Transfer</td>
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</tr>
<tr>
<td>EML 3312C</td>
<td>Feedback Control</td>
<td>3</td>
</tr>
<tr>
<td>EML 3332C</td>
<td>Kinematics and Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>EAS 4200</td>
<td>Flight Structures</td>
<td>3</td>
</tr>
<tr>
<td>EAS 4400</td>
<td>Spacecraft Attitude Dynamics</td>
<td>3</td>
</tr>
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<td>EAS 4505</td>
<td>Orbital Mechanics</td>
<td>3</td>
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<td>EAS 4105</td>
<td>Flight Mechanics</td>
<td>3</td>
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<tr>
<td>EML 4703</td>
<td>Fluid Mechanics II</td>
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<tr>
<td>EMA 4223</td>
<td>Deformation and Fracture of Materials</td>
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<td>CWR 4206C</td>
<td>Hydraulics</td>
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<td>CWR 4101C</td>
<td>Hydrology</td>
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<tr>
<td>ENV 4561</td>
<td>Environmental Eng Processes &amp; Design</td>
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<td>ESI 4234</td>
<td>Quality Engineering</td>
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<tr>
<td>ESI 4523C</td>
<td>Systems Simulation</td>
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<tr>
<td>EIN 4332C</td>
<td>Industrial Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3470</td>
<td>Electromagnetic Fields</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3552C</td>
<td>Signal Analysis and Communications</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4750</td>
<td>Digital Signal Processing Fund.</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>Computer System Design I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4832</td>
<td>Eng. Applications of Computer Models</td>
<td></td>
</tr>
<tr>
<td>EEL 4851C</td>
<td>Engineering Data Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

### 6. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by EGN 3420 or COP 3502C.

### 7. Foreign Language Requirements

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

Graduation: None

### 8. Electives (variable)

Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

### 9. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper
UCF Degree Programs

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* or CHM 2045C*: may use any laboratory BSC or CHM course which is designed for majors.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHEMATICS - PURE TRACK (B.S.)
College of Arts and Sciences
Department of Mathematics, MAP 207 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major may 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 a grade of at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program
   (Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations
   9 hrs
   - A. Communication Foundations

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

C. Mathematical Foundations
   - Select MAC 2311 Calculus I
   - Select COP 3502C Computer Science I
   - Social Foundations
   - 6 hrs
   - D. Social Foundations

E. Science Foundations
   - Select BSC 2010C General Biology or
     CHM 2045C Chemistry Fundamentals I
   - Select PHY 2048 & L Physics for Sci & Eng I
   - (PR:MAC 2311)
   - 4 hrs

2. Common Program Prerequisites
   (11 hrs)

COP 3223* C Language
   3 hrs
   - COP 3223: C Language

MAC 2311 Calculus I
   GEP
   4 hrs
   - MAC 2311: Calculus I

MAC 2312 Calculus II
   4 hrs
   - MAC 2312: Calculus II

MAC 2313 Calculus III
   4 hrs
   - MAC 2313: Calculus III

BSC 2010C* General Biology or
   CHM 2045C* Chemistry Fundamentals I
   4 hrs
   - BSC 2010C: General Biology or
   - CHM 2045C: Chemistry Fundamentals I

PHY 2048* & L Physics for Sci & Eng I & Lab
   GEP
   4 hrs
   - PHY 2048: Physics for Sci & Eng I & Lab
   *See Transfer Notes for possible substitutes

3. Core requirements
   (52 hrs)

PHY 2049 & L Physics for Sci & Eng II & Lab
   4 hrs
   - One course selected from

   ENC 3241 Technical Report Writing
   ENC 3241
   ENC 3210 Advanced Expository Writing
   STA 2023 Statistical Methods
   MATH 3302 Differential Equations
   MATH 3106 Matrix & Linear Algebra
   MAP 4363 Applied Boundary Value Prob I
   3 hrs
   - ENC 3241: Technical Report Writing
   - ENC 3210: Advanced Expository Writing
   - STA 2023: Statistical Methods
   - MATH 3302: Differential Equations
   - MATH 3106: Matrix & Linear Algebra
   - MAP 4363: Applied Boundary Value Prob I

4. Restricted Electives
   (3 hrs)
   Biological or physical sciences restricted
   Select from PCB 3034, PCB 3063, PCB 4302C, PCB 4303C,
   CHM 2210, CHM 2046, PHY 3101, PHY 3323, PHY 4424

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C

6. Foreign Language Requirements

Admission: Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: None.

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

8. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hours

Related Programs: Statistics, Applied Math, Computer Science, Engineering, Math Education

Related Minors: Computer Science, Engineering, Math, Physics, Statistics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223*: may use any programming course with a COP prefix.
- BSC 2010C* or CHM 2045C*: may use any laboratory BSC or CHM course which is designed for majors.
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

MATHEMATICS EDUCATION (B.S.)
College of Education
Department of Teaching and Learning Principles
ED 209
http://pegasus.cc.ucf.edu/~mathed
Program Coordinator: Dr. Michael Hynes
ED 308-E, 407-823-0523
E-mail: hynes@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida commu-
U CF Degree Programs

nity college or state university
- Have a minimum 2.5 overall GPA
- Pass four parts of the CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program (37 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. U.S. History (9 hrs)
   - AMH 2010 U.S. History 1492-1877 3 hrs
   - AMH 2020 U.S. History 1877-Present 3 hrs
   - PHI 2010 Introduction to Philosophy 3 hrs

   C. Mathematical Foundations (7 hrs)
   - MAC 2311 Calculus with Analytic Geometry I 4 hrs
   - STA 2023 Statistical Methods I 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)
   - PSC 1121 Physical Science 3 hrs
   - Select one:
     - ANT 2511 The Human Species
     - 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:
     - 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 (11 hrs)
   - MAC 2311 Calculus with Analytic Geometry I GEP
   - MAC 2312 Calculus with Analytic Geometry II GEP
   - STA 2023 Statistical Methods I GEP

   D. Social Science/History (12 hrs)
   - AMH 2010 U.S. History 1492-1877 GEP
   - AMH 2020 U.S. History 1877-Present GEP
   - POS 2041 American National Government GEP
   - PSY 2012 General Psychology GEP

   E. Science (10 hrs)
   - PSC 1121 Physical Science GEP
   - One of the following (per GEP) GEP
     - ANT 2511 The Human Species
     - BSC 1005 Biological Principles
     - Select one:
       - AST 2020 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
       - GEO 1200L Physical Geography Laboratory or
       - PSC 1121L Physical Science Laboratory

   F. Education Courses (9 hrs)
   - EDF 2005 Introduction to Education 3 hrs
   - EDF 2701 Teaching Diverse Populations 3 hrs
   - EME 2040 Technology for Educators 3 hrs

   G. Diversity Courses (3 hrs)
   - Select one:
     - H. Other Program Prerequisites (4 hrs)
     - MAC 2313 Calculus with Analytic Geometry III 4 hrs

   Note: students should consult advisor regarding course options.

3. Education Core Requirements (15 hrs)

   - EDG 4323 Professional Teaching Practices 3 hrs
   - EDG 4603 Analysis of Critical Issues in Education 3 hrs
   - EDG 4214 Classroom Learning Principles 3 hrs
   - TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
   - LAE 4361 Literacy Strategies for Mid/High School 3 hrs

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

   - MTG 4212 Modern Geometry 4 hrs

   - EDG 4323 and at least 50% of all required mathematics courses must be completed before doing Internship I

5. Specialization Requirements (37 hours)

   - MAP 2302 Differential Equations 3 hrs
   - MAP 4103 Mathematical Modeling 3 hrs
   - MAD 3403 Algebra Structures 3 hrs
   - MAD 4203 Combinatorics & Graph Theory 4 hrs
   - MAA 3401 Mathematics Instructional Analysis 4 hrs
   - MAA 4634 Practices in Teaching Mathematics 3 hrs
   - MAS 3105 Elementary Linear and Matrix Algebra 4 hrs
   - MAS 3203 Introduction to Number Theory 3 hrs
   - MTH 4402 Logic and Proof in Mathematics 3 hrs
   - MTH 4404 History of Mathematics 3 hrs

6. Internship II (ESE 4943) (12 hrs)

   - At least 80% of all required mathematics courses and all methods courses must be completed before doing Internship II

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

   - Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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 128 hours

MECHANICAL ENGINEERING (B.S.M.E.)
College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering
Department, ENGR 307, 407-823-5828
Fax: 407-823-0208
http://www.mmae.ucf.edu

R. H. Chen, ENGR 307, E-Mail: chenhm@mail.ucf.edu

Admission Requirements:

- All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

Degree Requirements

- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student must seek academic advisement before registering for
UCF Degree Programs

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 below. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 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).

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 3023 (3 hrs).

Note: Calculus II is the prerequisite for this course.

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

E. Science Foundations 7 hrs
1. Take PHY 2048/48L.

2. 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.

1. Take ENC 1101
2. Take ENC 1102
3. Take PHY 2048/48L.

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

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 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 Engining 3 hrs
STA 3032 Probability & Statistics for Engineers GEP
EML 3344 Modeling Methods in MAAE 3 hrs
EML 3303C Mechanical Engg Measurements 3 hrs
EML 3312C Feedback Control 3 hrs
EML 3500 Machine Design & Analysis 3 hrs
EML 3801 Solid Mechanics 3 hrs
EML 3701 Fluid Mechanics I 3 hrs
EML 4142 Heat Transfer 3 hrs
EML 4220 Vibration Analysis 3 hrs
EML 3505C Introduction to CAD/CAM

Select one of the following three options for your senior year to complete your BSME. See your ME advisor for assistance in making this selection (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
EML 3021C 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
EML 3021C Experimental Techniques in Mechanics & Materials 3 hrs
EML 3124 Structure & Properties of Alloys 3 hrs
EML 4223 Deformation & Fracture of Materials 3 hrs
Restricted Mechanical Systems Elective 3 hrs
Approved Electives 7 hrs

4. Departmental Graduation Requirements (6 hrs)

- EML 4501C Engineering Design I or
- EGN 4XX1 Interdisciplinary Design I
- EML 4502C Engineering Design II or
- EGN 4XX2 Interdisciplinary Design II

CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

6. Approved Restricted and Technical Electives

Technical electives are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their assigned academic advisor for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.

- 60 semester hours earned after any CLEP award.

- 48 semester hours of upper division credit completed.

- 30 of the last 36 hours of course work must be completed in 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: Aerospace Engineering, Industrial Engineering.

Related Minors: Space Studies.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
- EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The two credit hours for these courses may be substituted by an approved Mechanical Engineering technical elective for transfer students.

Tentative Course Schedule for Entering Freshmen

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

Mechanical Engineering - 128 semester hours required

FIRST YEAR

Fall 15 hrs Spring 15 hrs

EGN 1006C Intro to Eng Prof 1 EGN 1007C Eng Conc&Meth 1
*ENC 1101 English Comp I 3 *ENC 1102 English Comp II 3
*CHS 1440 Chin Eng or 3 *MAC 2312 Calc II 4
*CHM 2045C w/lab 3 *SPC 1016 Oral Comm for Eng or 3
*MAC 2311 Calc I 4 *ECO 2013 Macroeconomics or 3
*ECO 2013 Macroeconomics or 3 *PHY 2048 Phys Eng I w/lab 4

UNIVERSITY OF CENTRAL FLORIDA 2004-2005 Undergraduate Catalog
UCF Degree Programs

College of Health and Public Affairs
HPA2 335, 407-823-5932
http://www.cohpa.ucf.edu/molec.bio/
Undergraduate Program Director: Dorilyn Hitchcock
E-mail: hitchcod@mail.ucf.edu

Admission Requirements

Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

Separate application to the limited access program should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.

UCEF 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

The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

Students who change degree programs and select this major ‘will be required to complete the program as a new major. See advisor for appropriate substitutions.

MEDICAL LABORATORY SCIENCES (B.S)

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.

Students who change degree programs and select this major will be required to complete the program as a new major. See advisor for appropriate substitutions.

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult with the MMAE Department in ENGR 381 for a list of approved technical electives and for the terms when specific courses of this type are offered. Students should check with their faculty advisor frequently to ensure they are making satisfactory progress toward their degree.
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.

A number of bolded courses are given only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.

Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.

Please meet with your advisor if you have any questions regarding your schedule. Do not drop any course before discussing this action with your advisor - there may be alternative actions which will benefit you.

If you do not have a higher level programming language background you must take a course in this area prior to taking EML 1003 (“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.

Students who change degree programs and select this major will be required to complete the program as a new major. See advisor for appropriate substitutions.

MEDICAL LABORATORY SCIENCES (B.S)

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.

Students who change degree programs and select this major will be required to complete the program as a new major. See advisor for appropriate substitutions.

MEDICAL LABORATORY SCIENCES (B.S)

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.

Students who change degree programs and select this major will be required to complete the program as a new major. See advisor for appropriate substitutions.

MEDICAL LABORATORY SCIENCES (B.S)

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.

Students who change degree programs and select this major will be required to complete the program as a new major. See advisor for appropriate substitutions.
UCF Degree Programs

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
     - Select MAC 1105
     - Select CGS 2100C and STA 2023
     - STA 2023 Statistical Methods I GEP
     - STA 2023 Statistical Methods I GEP
   - B. Cultural Historical Foundations
     - Select MUL 2010 or THE 2000 3 or AMH 2010 EUH 2000 or HUM 2211 3
   - C. Mathematical Foundations
     - Select MCB 3020C
   - D. Social Foundations
     - Select BSC 2010C
     - Select CHM 2045C
   - E. Science Foundations
     - Select MCB 3020C or MAC 1105
     - Select MAC 1105
   - F. Writing Foundation
     - Select ENC 1101 3
     - Select ENC 1102 3
     - Select ENC 1103 3
   - G. Liberal Arts Electives
     - Select 16 hrs

2. Common Program Prerequisites (25 hrs)
   - BSC 2010C General Biology and lab
   - CGS 2100C Computer Fundamentals for Business 3 hrs
   - CHM 2210, 2211 Organic Chemistry I&II w/labs 8 hrs
   - MCB 3020C General Microbiology 5 hrs
   - STA 2023 Statistical Methods I GEP
   - STA 2023 Statistical Methods I GEP
   - ZOO 3733C Human Anatomy and Lab* 4 hrs
   - CHM 2211, 2211 Organic Chemistry I&II w/labs 8 hrs
   - MCB 3020C General Microbiology 5 hrs
   - PCB 3233/L 3/1 hrs
   - * see Transfer Notes

3. Core Requirements (63 hrs)
   - MLS 3220C Medical Laboratory Per. 3 hrs
   - MLS 4620 Advanced Clinical Chemistry I 3 hrs
   - MLS 4630 Advanced Clinical Chemistry II 3 hrs
   - PCB 3233 Immunology with Lab 3/1 hrs
   - MLS 4430C Clinical Parasitology 2 hrs
   - MLS 5305 Hematology with Lab 3 hrs
   - MLS 4505C Immunodiagnostics 3 hrs
   - MLS 4910 Intro to Clinical Research 1 hr
   - MLS 4550 Clinical Immunohematology 4 hrs
   - MLS 4460 Clinical Pathogenic Microbiology and Mycology 5 hrs
   - MLS 4334C Hemostasis 3 hrs
   - MLS 4933 Medical Technology Seminar 2 hrs
   - MLS 3705 Concepts in Education/Management 3 hrs
   - MLS 4830C Interpretive & Practical Clinical Chem 4 hrs
   - MLS 4831C Interpretive & Practical Hematology 4 hrs
   - MLS 4832C 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)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

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

Total Semester Hours Required: 126 hrs

Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

Transfer Notes:
- Community College Equivalencies
- Human Anatomy and Physiology I & II (BSC 2093C and 2094C)
- General Microbiology/Lab (MCB 2045)
- General Microbiology/Lab (MCB 2045)
- Immunohematology 4 hrs
- Hemostasis 3 hrs
- Medical Technology Seminar 2 hrs
- Concepts in Education/Management 3 hrs
- Quantitative Biological Methods 4 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year
- Fall 16 hrs Spring 17 hrs
  ENC 1101 3 ENC 1102 3
  MAC 1105 3 BSC 2010C 4
  SPC 1600 3 CHM 2045 3
  CHM 2045C 4 CHM 2046L 1
  CGS 2100C 3 ANT 2000 or SYG 2000 3
  STA 2023 3

Sophomore Year
- Fall 16 hrs Spring 17 hrs
  POS 2041 or ECO 2013 3 CHM 2211 3
  CHM 2210 3 CHM 2211L 2
  ZOO 3733C 4 MCB 3020C 5
  EUH 2000 or HUM 2211 3 PCB 3703C 4
  PCB 3703C 4 or AMH 2010 3
  MUL 2010 or THE 2000 3 or AMH 2230 3
  STA 2023 3 or REL 2300 or PHI 2010

Junior Year
- Fall 13 hrs Spring 16 hrs
  MLS 3220C 3 MLS 3305C/L 3/1
  MLS 4620L 3/1 MLS 4630 3
  PCB 3233L 3/1 MLS 4460 4
  PCB 3233/L 3/1 MLS 4460 5
  PCB 3703C 4 MCB 4400 2
  MCB 4400C 5

Summer
- 6 hrs
  CGS 1500 3
  MCB 4430 3

Senior Year
- Fall 16 hrs Spring 12 hrs
  MLS 4830 4 MLS 4912 3
  MLS 4831 4 MLS 4505 3
  MLS 4832 4 MLS 4550 4
  MLS 4833 4 MLS 3705 3
  BSC 3404 4

Molecular Biology and Microbiology (B.S.)

College of Health and Public Affairs
HPA2 335, 407-823-5932
Molecular Biology and Microbiology Department
http://www.cohpa.ucf.edu/molec.bio/
Chair: P.E. Kolattukudy
Assistant Chair: Roseann White
UG Program Coordinator: Dorilyn Hitchcock

Admission Requirements

Degree Requirements

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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.

Grades below "C-" (1.75) in life science courses will not be accepted.

The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   Select MAC 1105 or 1114 or 2311 or 2253
   Select STA 2023

2. Common Program Prerequisites (22 hrs)
   BSC 2100C General Biology I GEP
   BSC 2011C Biological Diversity 4 hrs
   CHM 2045C, 2046, General Chemistry I, II, + Lab GEP, 4 hrs
   CHM 2210, 2211, Organic Chemistry I, II, + Lab 10 hrs
   MAC 2311 Calculus with Analytical Geometry 1 4 hrs

3. Core Requirements (39 hrs)
   Life Sciences
   MCB 3205C General Microbiology 5 hrs
   MCB 4414 Microbial Metabolism 3 hrs
   PCB 4234, 3233L Cellular Immunology + Immunology Lab 4 hrs
   PCB 3523, 4524 Molecular Biology I, II 6 hrs
   BSC 4044C Quantitative Biological Methods 4 hrs
   Chemistry
   BCH 4053 Biochemistry I 3 hrs
   Math** Calculus and Statistics
   MAC 2333 or 2311 Applied Calculus I or Calculus I 3 hrs
   STA 2023 Statistical Methods I GEP
   Physics**
   PHY 2048C, 2049C College Physics I, II or 2049L, 2048L 8 hrs
   CGS 1060C Intro to Computer Science 3 hrs

4. Upper Division Restricted Electives (18 hrs)
   (Six courses, of which at least two must be laboratory courses. No more than two may be MLS courses. Enrollment in some courses is restricted. Check with advisor before enrolling. Either MCB 3203 or MLS 4460, but not both, may be counted. Only three hours of Honors thesis will count towards restrictive elective requirement.)
   *BCH 4054 Biochemistry II 3 hrs
   *BCH 4103L Biochemical Methods 2 hrs
   *MCB 3203, 3203L Pathogenic Microbiology + Lab 4 hrs
   MCB 4114C Microbial Systematics and Diagnostics 4 hrs
   PCB 3251 Genetics 3 hrs
   MCB 4312 Molecular Biotechnology 3 hrs
   MCB 4603 Environmental Microbiology 3 hrs
   MCB 4970H Honors Thesis 3 hrs
   MCB 5205 Infectious Process 3 hrs
   MCB 5225 Molecular Biology of Disease 3 hrs
   MCB 5932 Current Topics in Molecular Biology 3 hrs
   MCB 5505 Molecular Virology 3 hrs
   MCB 5927 Genetic Engineering & Biotechnology 3 hrs
   MCB 5955 Applied Microbiology 3 hrs
   MLC 3220C Clinical Microscopy with lab 3 hrs
   *MLS 3305C Hematology 3 hrs
   *MLS 4334C Hemostasis 3 hrs
   *MLS 4433C Clinical Parasitology 2 hrs
   MLS 4460 Clinical Pathogenic Microbiology and Mycology 5 hrs
   *MLS 4505C Immunodiagnostics 3 hrs
   MCB 4970H "Quantitative Biological Methods" with a grade of B or better (4 credits)
   *PCB 3703C Human Physiology 4 hrs

5. Departmental Exit Requirements (81-91 hrs)
   To be eligible for a major in Molecular Biology and Microbiology:
   - A student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
   - Independent study, directed research, or similar credit may not be used as a Restricted Elective
   - A minimum of 20 hours must be taken at UCF in the department of the major
   - Students will be required to take a comprehensive test during their last semester

6. Electives (variable)
   Students are encouraged to participate in undergraduate research if interested in pursuing graduate or professional education.

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

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

Total Semester Hours Required 120 hours
Related Programs: Biology, Chemistry, 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 Human 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
MOTION PICTURE TECHNOLOGY

UCF Degree Programs

Thesis (3 credits)

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall 13/14 hrs
ENC 1101 3
PSY 2012 or SYG 2000 3
or ANT 2000 3
CHM 2045C 4
MAC 1105 3
SLS 2311* (Preprofessional) 4

Spring 17 hrs
ENC 1102 3
CHM 2046 3
CHM 2046L 3
MAC 1114 3
BSC 2010C 4

Sophomore Year

Fall 14/15 hrs
CHM 2210 3
MCB 3020C 5
MAC 2211 or MAC 2253 4/5
or STAT 2023 3
EUI 2000 or AMH 2010 3
or WOH 2012 or HUM 2211 3
or EUH 2001 or AMH 2020 3

Spring 15 hrs
CHM 2211 3
CHM 2211L 2
BSC 3404 4

Plan your required 9 summer hours into your course of study

Junior Year

Fall 17 hrs
PCB 3523 3
BCH 4053 3
PHY 2053C or PHY 2048* and 2048L 4
BSC 2011C 4
EUI 2013 or POS 2041 3

Spring 14/15 hrs
PCB 4234 + PCB 3233L 4
PHY 2045C* or PHY 2049, 2049L 4
Restrictive Elective 3/4

Senior Year

Fall 15/17 hrs
MCB 4414 3
Restrictive Elective 3/4

Spring 12/15 hrs
CGS 1060 3
Restrictive Elective 3/4
A course from Cultural and Historical Foundations Group 3

* Students electing to enroll in the PHY 2048/2049 sequence must plan to accomodate MAC 2311/2312 as prerequisites.

MOLECULAR BIOLOGY AND MICROBIOLOGY-
PREPROFESSIONAL CONCENTRATION (B.S.)

College of Health and Public Affairs
HPA2 335, 407-823-5932
http://www.coaha.ucf.edu/molec.bio/
Chair: P.E. Kolattukudy

Students desiring admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) will meet all the admission requirements for those programs while obtaining M & M degree. All Molecular Biology and Microbiology students who are in preprofessional concentration are required to complete from the Molecular Biology and Microbiology degree requirements:

- UCF General Education Program
- Common Program Prerequisites
- Core requirements as listed
- Upper Division Restricted Electives: Preprofessional students are advised to select six upper division electives as indicated by * in the Molecular Biology and Microbiology (B.S.) major.
- Departmental Exit Requirement
- Electives: variable; however, SLS 2311-Overview of Selected Medical Careers, is highly recommended, preferably during Fall of freshman year.
- Foreign Language Requirements
- University Minimum Exit Requirements

Total Semester Hours Required 120

Related Programs: Medical Lab Sciences, Biology, Chemistry
Related Minors: Biology, Chemistry

Tentative Course Schedule: Students are advised to follow the course Choreography outlined in Tentative Course Schedule for Entering Freshman listed in Molecular Biology and Microbiology (B.S.)

(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: emontague@mail.ucf.edu, 407-823-1145
Scott Warfield, E-mail: swarfield@mail.ucf.edu, 407-823-1144

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods/styles.
- Memorization is required for pianists and vocalists.
- Accompanists are provided by special request only.
- Each candidate must bring his/her own audition music.
- The department will only provide large instruments such as a tuba, a string bass, or timpani for these auditions.
- The audition will serve as a placement examination for accepted candidates.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department.
- Each student must perform a faculty-approved public recital.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor for course selections.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

(see General Education Program for detailed information)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
- Select one two-semester sequence 6 hrs
- Select MCB 4212 History and Literature II 3 hrs
- Mathematical Foundations 6 hrs
- Select MGF 1106 Finite Mathematics 3 hrs
- May substitute a higher level math 3 hrs
C. Social Foundations 6 hrs
D. Science Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (24 hrs)

MUT 1111* Music Theory IA 2 hrs
MUT 1112* Music Theory IB 2 hrs
MUT 1241* Ear Training & Sight Singing IA 1 hr
MUT 1242* Ear Training & Sight Singing IB 1 hr
MUT 2116* Music Theory IIIA 2 hrs
MUT 2117* Music Theory IIIB 2 hrs
MUT 2246* Ear Training & Sight Singing IIIA 1 hr
MUT 2247* Ear Training & Sight Singing IIIB 1 hr
MUN XXXX Major Ensembles (four semesters) 4 hrs

(See Specialty requirements for specific requirements and for the credits required)

MV/VM/KMV/VP
MVPS/MV/MV/MW Performance (four semesters) 8 hrs
MVK 1111-2121* Class Piano I-II 0-2 hrs
(or proficiency)

*See Transfer Notes for possible substitutes

3. Core Requirements (14 hrs)

Piano proficiency 0 hrs
(repeat MVK 3131-4141 Class Piano III-IV until passed)
MUS 1010 Music Forum (six semesters) 0 hrs
MUS 3571 20th Century Musical Analysis 3 hrs
MV/VM/KMV/VP
MVPS/MV/MV/MW Performance 4 hrs
(MVPS/MV/MV/MW Performance Two semesters of Level III)
MUN XXXX Major Ensembles 2 hrs
MUG 3104 Basic Conducting 2 hrs
MUG 4211 History & Literature I 3 hrs
MUG 4212 History & Literature II GEP

4. Specialty Requirements: (10 hrs)

Piano
7. Departmental Exit Requirements

Each BA student must perform one faculty-approved, 30 minute "Recitals
Minor ensembles include: Brass, Percussion, Piano, String, Voice.
If minor ensemble credits are transferred to UCF, each remaining credit must be completed in a separate semester.

Minor Ensemble Participation
Native UCF students must take each of four major ensemble credits during separate semesters.
Transfer students must take any remaining major ensemble credits in a separate semester.

Ensemble assignment is by the ensemble directors.

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
MUT 1111*, MUT 1112*: May use MUT 1121, MUT 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
MUT 1241*, MUT 1242*: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
MUT 2116*, MUT 2117*: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
MUT 2246*, MUT 2247*: May use MUT 2226, MUT 2227, or MUT 2266, MUT 2267, or MUT 2276, MUT 2277.
MVK 1111, MVK 2121*: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221

MUSIC EDUCATION (B.M.E.)
College of Arts and Sciences
Department of Music, CNH 205A
http://www.cas.ucf.edu/music/
E-mail: music@mail.ucf.edu
A. Holcomb, 407-823-4180. Fax 407-823-3378
E-mail: aholcomb@mail.ucf.edu

Admission Requirements - Music Education-Pending
Audition. To be accepted into Music Education-Pending, a student must demonstrate advanced proficiency by performing compositions representing a variety of musical periods (baroque, classical, romantic, contemporary).
Memorization is required for pianists and vocalists.
Accompanists are provided by special request only.
Each candidate must bring his/her own audition music.
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.

- Earn a grade of “C” (2.0) or better in each Music course
- Computer Competency met by CGS 1060C, or departmental examination

8. Foreign Language Requirements (0-11 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to three semesters 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. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

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

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

Total Semester Hours Required 120 hours

Related Programs: Music Education, Music (BM), Theatre
Related Minors: Music, Theatre

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
MUT 1111*, MUT 1112*: May use MUT 1121, MUT 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
MUT 1241*, MUT 1242*: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
MUT 2116*, MUT 2117*: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
MUT 2246*, MUT 2247*: May use MUT 2226, MUT 2227, or MUT 2266, MUT 2267, or MUT 2276, MUT 2277.
MVK 1111, MVK 2121*: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221
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 2020 History of African-American Literature II (3 hrs)
- MH 4212 History and Literature II (3 hrs)

C. Mathematical Foundations (6 hrs)

- MAC 2311 Calculus I (3 hrs)

Select one:
- STA 1060 Introduction to 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)

- PSC 1221 Physical Science (3 hrs)

Select one:
- ANT 2511 The Human Species (3 hrs)
- BSC 1005 Biological Principles (3 hrs)

Note: See laboratory component under Section 2.

2. Common Program

Prerequisites (19 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)
- MH 4212 History and Literature II (3 hrs)

C. Mathematics

- MAC 1105 College Algebra (3 hrs)
- MGF 1106 Finite Mathematics (3 hrs)

Select one:
- STA 1060 Introduction to Statistics (3 hrs)

D. Social Science/History

- AMH 2020 History of African-American Literature II (3 hrs)
- MH 4212 History and Literature II (3 hrs)

E. Science

- PSC 1221 Physical Science (3 hrs)

Select one:
- ANT 2511 The Human Species (3 hrs)
- BSC 1005 Biological Principles (3 hrs)

Select one:
- AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and Its Applications (3 hrs)

Select one associated science lab (1 hr)
- BSC 1005L Biological Principles Laboratory or GEO 1200L Physical Geography Laboratory or PSC 1221L Physical Science Laboratory

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 (27 hrs)

- MUN XXXX Major Ensembles (4 semesters) (3 hrs)
- MUT 1111 Music Theory IA (3 hrs)
- MUT 1112 Music Theory IB (3 hrs)
- MUT 2116 Music Theory IIA (2 hrs)
- MUT 2117 Music Theory IIB (2 hrs)
- MUT 2411 Ear Training & Sight Singing IA (1 hr)
- MUT 2422 Ear Training & Sight Singing IIB (1 hr)
- MUT 2424 Ear Training & Sight Singing IIA (1 hr)
- MUT 2427 Ear Training & Sight Singing IIB (1 hr)
- MVK 1111 Class Piano I (or proficiency) (0-1 hr)
- MVK 2121 Class Piano II (1 hr)
- MVK 3131 Class Piano III (1 hr)
- MVK 4141 Class Piano IV (1 hr)
- MVG XXXX Performance (4 semesters) (0 hrs)

4. Core Requirements (37 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 2020 History of African-American Literature II (3 hrs)
- MH 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 (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)

- PSC 1221 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.

5. Special Requirements (15 hrs)

Complete one program:

Program A - Instrumental

- MV 1111 Class Voice (or proficiency) (0-1 hr)
- MUG 3302 Instrumental Conduct & Materials (2 hrs)
- MUS 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

- MV 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 admis-
sions office passing scores on 4 parts of the CLAST; successfully completed Internship I; and have passed all proficiency/comprehensive exams before enrolling in Internship II. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator five days a week for the entire semester, normally during the student’s last semester. Students are permitted to enroll in other classes only with the consent of the departmental advisor. The semester of student teaching is divided into four types of activities: observing, assisting, teaching, and learning. Student teachers become involved with children as rapidly as possible, and gradually assume a full responsibility for the classroom in which they have been assigned. As the experience draws to an end, the process should be reversed and supervising teachers take back their classes at convenient program breaks. Students are expected to provide their own transportation to assigned locations.

7. Special Non. - Course Requirements

Note: Contact the Music Education Advisor for details

Music Forum MUS 1010 0 hrs
- Native UCF Students must complete 6 semesters of MUS 1010
- Transfer students must take MUS 1010 each term they are enrolled at UCF, except while taking Internships I & II

Comprehensive Proficiency Exams
Comprehensive Exams are given near the end of the semester of the final course in the sequence. Students should enroll in proficiency exams while taking the final course of the sequence.

- Piano - MVK 4960 - take during or after completing MVK 4141
- Music History - MUH 4963 - take during or after completing MUH 4212
- Music Theory - MUT 2962 - take during or after completing MUT 2117
- Ear Training & Sight Singing - MUT 2960, MUT 2961 - take during or after completing MUT 2247
- 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 (0-6 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation
Graduation: None

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

11. Total Semester Hours Required 134 hours
Related Programs: Music, Music (BFA), Theatre
Related Minors: Music, Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major
- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- MUE 2040*: May use equivalent course or proficiency
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262, or MUT 1271, 1272
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

Note: Music majors are required to take six hours (in addition to
UFC Degree Programs

EDG 2701) that have an international or diversity focus. While native
UCF students complete this requirement as part of the GEP, transfer
students must take appropriate courses that have been so designat-
ed by their previous institution.

Note: Students must take a Natural Science class with the lab and
should select a course that fulfills the GEP requirement.

MUSIC PERFORMANCE (B.M.)

College of Arts and Sciences
Department of Music, CNH 205
http://www.cas.ucf.edu/music/
E-Mail: music@mail.ucf.edu
http://www.cas.ucf.edu/music/

Department of Music, CNH 205
College of Arts and Sciences
MUSIC PERFORMANCE (B.M.)

Note

ed by their previous institution.

UCF students complete this requirement as part of the GEP, transfer
EDG 2701 (General Education program for detailed information)

A. Communication Foundations

9 hrs

B. Cultural and Historical Foundations

Select one two-semester sequence

6 hrs

Select MUN 4212 History and Literature II

3 hrs

C. Mathematical Foundations

6 hrs

Select MGF 1106 Finite Mathematics

3 hrs

(may substitute a higher level math)

Prefer STA 1060C Statistics Using Excel

3 hrs

D. Social Foundations

6 hrs

E. Science Foundations

6 hrs

1. UCF General Education Program

(36 hrs)

2. Common Program Prerequisites

(24 hrs)

MUT 1111* Music Theory IA

2 hrs

MUT 1112* Music Theory IB

2 hrs

MUT 1241* Ear Training & Sight Singing IA

1 hr

MUT 1242* Ear Training & Sight Singing IB

1 hr

MUT 2116* Music Theory IIA

2 hrs

MUT 2117* Music Theory IIB

2 hrs

MUT 2246* Ear Training & Sight Singing IIA

1 hr

MUT 2247* Ear Training & Sight Singing IIB

1 hr

MUN XXXX Major Ensemble (four semesters)

4 hrs

(See Specialty requirements for specific requirements and for the credits required)

MUT/MV/MY

MV/SM/MV/MY

Perf or comp (four semesters)

8 hrs

MV 1111-2121* Class Piano I-II

0-2 hrs

(or proficiency)

*See Transfer Notes for possible substitutes

3. Core Requirements

(18 hrs)

Piano proficiency

( repeat MVK 3131-4141 Class Piano III-IV until passed)

MUS 3101 Music Forum (eight semesters)

0 hrs

MUT 3571 20th Century Musical Analysis

3 hrs

MUT 3574 Performance or composition (four semesters

including two semesters of Level IV)

8 hrs

MUN XXXX Major Ensembles

2 hrs

MUG 3104 Basic Conducting

2 hrs

MUN 4211 History & Literature I

3 hrs

MUN 4212 History & Literature II

GEP

4. Specialty Requirements:

(24 hrs)

Piano

MUL 3400 Piano Literature I

2 hrs

MUL 3401 Piano Literature II

2 hrs

Ensembles

Major Not required

0 hrs

Minor-MUN 3453 Piano Ensemble

4 hrs

Restricted Electives

16 hrs

Piano Pedagogy

MUL 3400 Piano Literature I

2 hrs

MUL 3401 Piano Literature II

2 hrs

MVI 4640 Piano Pedagogy I

1 hr

MVI 4641 Piano Pedagogy II

1 hr

MUS 4401 Studio Teaching

2 hrs

Ensembles

Major Not required

0 hrs

Minor-MUN 3453 Piano Ensemble

4 hrs

Restricted Electives

12 hrs

Guitar

MUL 3432 String Literature

2 hrs

MVS 4640 String Pedagogy

2 hrs

Ensembles

Major Not required

0 hrs

Minor-MUN 3483 String Ensemble

4 hrs

Restricted Electives

10 hrs

Voice

FRE 1005 Italian Diction

1 hr

GER 1005 German Diction

1 hr

ITA 1005 Italian Diction

1 hr

MVI 4640 Voice Pedagogy I

1 hr

MVI 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

MVS/MVV/MVW Performance or composition (four semesters

including two semesters of Level IV) 8 hrs

MUN XXXX Minor Ensemble

4 hrs

MUN XXXX Major Ensemble

4 hrs

Restricted Electives

4 hrs

Woodwinds

MUN XXXX Major Ensemble

4 hrs

MUN XXXX Minor Ensemble

4 hrs

MUL 3441 Woodwind Literature

2 hrs

MVI 3630 Woodwind Pedagogy

2 hrs

Restricted Electives

12 hrs

Brass

MUN XXXX Major Ensemble

4 hrs

MUN XXXX Minor Ensemble

4 hrs

MUL 3442 Brass Literature

2 hrs

MVI 4640 Brass Pedagogy

2 hrs

Restricted Electives

12 hrs

Percussion

MUN XXXX Major Ensemble

4 hrs

MUN XXXX Minor Ensemble

4 hrs

MUL 3463 Percussion Literature

2 hrs

MVP 3630 Percussion Pedagogy

2 hrs

Restricted Electives

12 hrs

Strings

MUN XXXX Major Ensemble

4 hrs

MUN XXXX Minor Ensemble

4 hrs

MUL 3432 Strings Literature

2 hrs

MVI 4640 Strings Pedagogy

2 hrs

Restricted Electives

12 hrs

Composition

MUT 3571 Counterpoint

3 hrs

MUT 3581 Arranging and Composing Music

3 hrs

MUG 3302 Instrumental Conducting & Materials

3 hrs

MUC 3311 MIDI Sequencing I

3 hrs

MUC 4411 MIDI Sequencing II

3 hrs

MUS 4347C Digital Notation

3 hrs

MUT 3170 Jazz Theory I

2 hrs

Ensembles

Major

4 hrs

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Restricted Electives 0 hrs

5. Restricted Electives (See above)
   - Any secondary performance course not in area of major instrument or
   - Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

6. Special Non-Course Requirements
   - MUS 1010 Music Forum
     - Native UCF students must complete 8 semesters of MUS 1010
     - Transfer students must take MUS 1010 each term they are enrolled at UCF
   - Comprehensive Exam, Piano - MVK 4960
     - Satisfactory completion of a comprehensive examination in piano
       to be taken after completing MVK 4141.
   - Comprehensive Exam, Music History - MUH 4963
     - Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212.
   - Comprehensive Exams, Music Theory - MUT 2960, MUT 2961, MUT 2962
     - Completion, with at least an 80% score on each of the following components:
       Ear Training, Sight Singing, 4-part Writing, Musical Forms, Transposition, Analysis, and Counterpoint.
     - Tests are to be taken after completing MUT 2117, and before enrolling in MUT 3571.

7. Departmental Exit Requirements
   - Major Ensemble Participation
     - Selected from University Chorus, Symphony Orchestra, Concert Band, Symphonic Wind Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
     - Ensemble assignment is by the Ensemble directors.
     - Transfer students must take Major Ensemble during each of their remaining semesters
   - Minor UCF students must take each Major Ensemble credit in a separate semester.
   - Students taking a course in Performance must concurrently take a minor ensemble appropriate to their principal instrument or voice

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 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

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262 or MUT 1271, 1272.
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277.
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

NURSING (B.S.N.)

A. BASIC PROGRAM

(For individuals who are not Registered Nurses)

College of Health and Public Affairs
HPA1 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
Director: Jean Leuner
Undergraduate Coordinator: Patricia Lei
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 prior to February 1 of the year admission is sought for the Orlando Campus and June 1 the prior year for January admission on the Brevard Campus (see information on accelerated second degree program for deadline)
- UCF application must also be submitted by the program deadline
- Student must complete all general education, foreign language, admissions, and program prerequisites prior to the start of the program. 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)
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 or 2023 Principles of Statistics** GEP
   E. Science Foundations:**
      - 6 hrs
   Select both SYG 2000 and PSY 2012*
   Select ECO 2013 or ECO 2023 or POS 2041

   * 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**
   MCB 2005C Health Microbiology
   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
   SOW 3104 Assessing Human Development or
   DEP 2004 Developmental Psychology 3 hrs
   HUN 3011 Human Nutrition 3 hrs

   * May take Anatomy and Physiology sequence of six-eight total credits.
   **Also meets General Education Requirements. The first semester of a two semes-
   ter general chemistry course does not meet requirement.

3. Core Requirements (63 hrs)

   NUR 3028L Therapeutic Interv for Health Prof. 1 hr
   NUR 3065 Health Assessment 3 hrs
   NUR 3165 Nursing Research 3 hrs
   NUR 3225 Promoting Physical & Mental Health 5 hrs
   NUR 3225L Clin Pract in Prom/Psych/Physical Health 4 hrs
   NUR 3616 Promoting Healthy Families 3 hrs
   NUR 3616L Clinical Pract in Promot Healthy Fam 3 hrs
   NUR 3617 Promoting Healthy Communities 3 hrs
   NUR 3825 Role of the Professional Nurse 2 hrs
   NUR 3198 Pathophysiology & Pharmacology 5 hrs
   NUR 4525 Nursing Intervention in Mental Illness 2 hrs
   NUR 4526L Clinical Practice w/ Mental Ill Client 1 hr
   NUR 4636 Community as the Continuum of Care 3 hrs
   NUR 4638L Clinical Pract in Comm.- Orient Nsg 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 4000X 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
   *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 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 hours of Summer credit (if applicable)

Total Semester Hours Required

   121 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Psychology, Health Sciences, Health Services Administration

Transfer Notes:

Examples of Community College Equivalent Courses -
Prerequisites

   General Psychology (PSY X012) or any General Psychology course
   General Sociology (SYG 2000) or any Intro to Sociology course
   Statistics (STA 2014C or 2023) or any Statistics course
   General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*

   Human Anatomy and Physiology I & II
   w/lab (BSC 2093/2094) or (BSC X085/X086)
   General Microbiology (MCB 3020C) (MCB X010C) w/lab
   or any Microbiology course w/lab

   Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course
   Human Nutrition with therapeutic nutrition focus

   *The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors

Honors Option Requires:

   - Completion of a three credit directed readings course
   - Completion of a three credit thesis course
   - Open to students with a minimum 3.5 GPA in Nursing
   - Minimum cumulative UCF 3.2 GPA
   - Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

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
**B. RN TO BSN PROGRAM**

*(Completion program for individuals who are RNs licensed in the State of Florida)*

**College of Health and Public Affairs**

HPA 1220, 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 Nursing major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

**1. UCF General Education Program** **(36 hrs)**

A. Communication Program (9 hrs)
B. Cultural Historical Foundations (9 hrs)
C. Mathematical Foundations (6 hrs)
D. Social Foundations (6 hrs)

**2. Common Program Prerequisites** **(21 hrs)**

- Psychology**
- Human Anatomy
- Human Physiology
- Principles of Statistics**
- Assessing Human Development
- Developmental Psychology
- Human Nutrition

**3. Core Requirements** **(55 hrs)**

- Nursing Research/Critical Inquiry
- Transition Concepts in Nursing II
- Community as Continuum of Care
- Health Care Issues, Policy, & Econ
- Directed Nursing Practice

**Validation Credit**

- 28 hrs

**4. Upper Division Restricted Elective** **(3 hrs)**

- Any Nursing Elective

**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 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)
Separate application RN-MSN program. Acceptance to the university does not constitute admission to the Graduate of a state-approved or accredited associate degree or site for application materials. All applicants must meet the following gram must be made. Contact the School of Nursing or visit our web-Admission Requirements BSN and MSN programs. Completion of the GRE by the end of the second semester in the Minimum cumulative GPA of 3.0 Completion of prerequisites for the RN-BSN nursing program Admitted to UCF undergraduate program Three professional references Interim Requirements: Maintain a Nursing GPA of 3.0 Completion of the GRE by the end of the second semester in the program with a minimum combined GRE score of 900 on the verbal/quantitative exams. Admission Requirements for Graduate Nursing Phase: (To be met during the semester the BSN is awarded) Application to Graduate Studies Completion of all UCF School of Nursing coursework to date with a minimum GPA of 3.0 An updated resume Degree Requirements Students who change degree programs and select this major must adopt the most current catalogStudents should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities UCF Residency Requirement: 30 hours The BSN is awarded after completion of 60 hours including specified courses The MSN is awarded after program completion The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours BSN Curriculum Changes for the RN to MSN Option: An individualized plan of study is developed for each student admitted to the RN to MSN option. Students take NUR 4836, Professional Development Seminar, to meet the requirements of NUR 4084, Transitional Concepts of Nursing II. Students take NGR 5800, Nursing Theory/Research I, instead of NUR 3165, Nursing Research, if they have taken NUR 4836. The credits for this course are applied to both the BSN and MSN programs. Students pursuing the MSN in the Nursing Leadership and Management Track may take the following courses: NUR 4838L, Directed Practice in Nursing Administration for NUR 4945L, Directed Nursing Practice NGR 5720, Organizational Dynamics for NUR 4827, Leadership and Management Principles NGR 5671, Health Care Informatics for nursing elective NGR/HSA XXXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective) Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks may take the following courses: NGR 5003 and NGR 5004L, Advanced Health Assessment, Health Promotion and Diagnostic Reasoning (for NUR 4945L, Directed Nursing Practice) NGR 5141, Pathophysiology NGR XXXX, Graduate elective in area of concentration 1. UCF General Education Program (36 hrs) A. Communication Foundations 9 hrs B. Cultural Historical Foundations 9 hrs C. Mathematical Foundations 6 hrs MAC 1105 Select STA 214C or STA 215C D. Social Foundations 6 hrs Select SYG 2000 or PSY 2012 Select one: ECO 2013 or ECO 2023 or POS 2041 E. Science Foundations: 6 hrs Select BSC 100C Select CHM 1032 2. Common Program Prerequisites (21 hrs) PSY 2012 General Psychology** GEP SYG 2000 Sociology** 3 hrs MCB 2005C Health Microbiology 4 hrs CHM 1032L General Chemistry and lab** GEP ZOO 3733C Human Anatomy** 4 hrs PCB 3703C Human Physiology 4 hrs STA 214C or 2023 Principles of Statistics** GEP SOW 3104 Assessing Human Development or 3 hrs DEP 2004 Developmental Psychology 3 hrs HUN 3111 Human Nutrition 3 hrs
3. Upper Division Restricted Elective none

4. Departmental Exit Requirements
   Completion of all courses in major with a grade of “B” (3.0) or better
   ■ UCF GPA of 2.5 or above
   ■ School of Nursing GPA of 2.5 or above

5. Electives none

6. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent proficiency
exam).
   Graduation: none

7. University Minimum Exit Requirements
   (For students exiting after earning BSN.)
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after CLEP awarded
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in 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 programs
Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

NURSING ACCELERATED SECOND DEGREE
BACHELOR OF SCIENCE IN NURSING (BSN) OPTION

Note: For detailed information about this program, see description in the Accelerated Undergraduate-Graduate Program section.

NURSING (B.S.N.)
AS TO BSN TRACK

Note: For detailed information about this program, see description in the AS to BS Program section.

ORGANIZATIONAL COMMUNICATION (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 258
407-823-2852
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
K. Phillip Taylor

Admission Requirements 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
      9 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
      Select STA 2014 Principles of Statistics 3 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 2014 Principles of Statistics GEP
   COM 3011C Communication & Human Relations 3 hrs
   COM 3311 Communication Research Methods 3 hrs
   PUR 4100C Public Relations Publications 3 hrs
   ENC 2350 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. Electives (9 hrs)
   Select from the following list:
   SPC 3513 Argumentation and Debate
   COM 4014 Gender Issues in Communication
   COM 4461 Intercultural Communication
   COM 4462 Conflict Management
   COM 4941 Internship
   COM 4XXX Communication and the Family

5. Upper Division Restricted Electives (6 hrs)
   A minimum of six upper division credit hours selected from courses in Business Law, Management, Marketing, or Hospitality Management.

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: One year or equivalent proficiency exam

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 res-
  idency at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: 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.
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
      - Select PHI 2100 (9 hrs)
   B. Cultural and Historical Foundations
      - Select PHI 2100 (3 hrs)
   C. Mathematical Foundations
      - Select MGF 1106 (3 hrs)
   D. Social Foundations
      - Select PHI 2100 (6 hrs)
   E. Science Foundations
      - Select PHI 2100 (6 hrs)

2. Common Program Prerequisites
   None

3. Core requirements* (27 hrs)
   Philosophical Foundations:
      (12 hrs)
      - Select 12 hours, including at least three hours from each group:
        Reasoning
        - PHI 2011: Philosophical Reasoning
        - PHI 2101: Critical Thinking
        - PHI 2100: Formal Logic I
      Ethics
        - PHI 3670: Ethical Theory
      Knowledge
        - PHI 3320: Philosophy of Mind
        - PHI 4350: Philosophy of Social Science
      Research Methods
        - PHI 3083: Research Methods in Philosophy
   Disciplinary and Interdisciplinary Knowing (6 hrs)
   - Select two courses:
     PHI 3400: Philosophy of Law
     PHI 3700: Philosophy of Religion
     PHI 4400: Philosophy of Science
     PHI 4420: Philosophy of Social Science
     PHI 3451: Philosophy of Psychology
     PHI 3800: Aesthetics
   Applications
      (9 hrs)
      - Select three courses:
        HUM 4330: Performance Theory
        PHI 3626: Ethics in Science & Technology
        PHI 3022: Sexuality, Gender, & Philosophy
        PHI 3033: Philosophy, Religion, and the Environment
        PHI 3638: Ethical Issues in the 21st Century
        PHI 3640: Environmental Ethics
        PHI 3941: Philosophy of Praxiology
        PHI 4321: Philosophies of Embodiment: Mind/Body/Self
        PHI 4931: Philosophy in the News
        PHI 4633: Ethics and Biological Science
        PHI 4804: Critical Theory
        PHM 3100: Freedom and Justice
        PHM 3123: Feminist Theory
        PHM 4031: Environmental Philosophy
        REL 3111: Religion and Philosophy through Film
*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)
   Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major
   Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:
   - Philosophical Foundations (12 hrs)
     Same requirements as for regular majors but must include PHI 2100 Formal Logic I
   - Disciplinary and Interdisciplinary Knowing (6 hrs)
     Same requirements as for regular majors
   - Applications (9 hrs)
     Same requirements as for regular majors
   - Upper Division Restricted Electives (6 hrs)
     Choose two of the following:
     - PHI 3100: Ancient Philosophy
     - PHI 3200: Medieval Philosophy
     - PHI 3460: Modern Western Philosophy
     - PHI 3600: Contemporary Philosophy
   - Honors Thesis
     - PHI 4934H: Honors Directed Reading 3 hrs
     - PHI 4970H: Honors Thesis 3 hrs

Additional Requirements:

- Application and admission through the Philosophy Honors Coordinator and the Burnett Honors College.
- Fulfill University requirements for Honors in the Major.
- Earn a “B” (3.0) or better in both PHI 4903H and PHI 4970H.
- Maintain UCF GPA of at least 3.2 and a Philosophy GPA of at least 3.5.
- Successful completion and oral defense of Honors thesis.

6. Departmental Exit Requirements
   - Either PHI 4970H: Honors Thesis (3 hrs) or organization and submission of a portfolio (PHI 4951 - 1 hr) of one’s work in philosophy to a Departmental committee for approval prior to graduation.
   - Earn a “C” (2.0) or better in each required course.
   - Computer Competency met by PHI 4970H, PHI 4951, or by STA 1060C.
   - To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: 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.

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

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

Total Semester Hours Required: 120 hours

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.

PHOTOGRAPHY (B.S.)
College of Arts and Sciences
E-mail: santana@ucf.edu
Coordinator: Dr. M.C. Santana, 407-823-2838
Liberal Studies Advising Team, 407-823-0144

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 the Photography program coordinator before selecting this major, and at least annually thereafter.
- Upper-division electives, internship credit, and course substitutions must be approved by the program coordinator.
- Students must earn at least a "C" in each required course and maintain an overall GPA of at least 2.0

Degree Requirements
1. UCF General Education Program (36 hrs)
Students who have not satisfied General Education Requirements before transferring will complete the remaining courses at UCF. The specific courses will depend on the general education courses completed as part of the articulated A.S., and will come from the following areas:

A. Communication Foundations
   - ENC 1101 Composition I AS
   - ENC 1102 Composition II 3 hrs
   - SPC 2600* Speech AS

B. Cultural and Historical Foundations
   - A year sequence in AMH, EUH, HUM, or WOH 6 hrs
   - ARH 1000* Art Appreciation AS
   - (Students may substitute ARH 2005 or ARH 2050)

C. Mathematical Foundations
   - MAC 1105 College Algebra AS
   - Computer Science or Statistics 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 1000* Art Appreciation AS
GRA 1741* Design and Color Principles AS
GRA 1800* Computer Graphics Fundamentals AS
PGY 1401* Fundamentals of Photography AS
PGY 3610C Photomedia I AS

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)

CSG 1902 Introduction to Computer Applications 1 hr
GRA 1741 Design and Color Principles 4 hrs
GRA 1800 Computer Graphics Fundamentals 3 hrs
PGY 1115 Color Materials and Processes 6 hrs
PGY 1201 Introduction to the Studio 4 hrs
PGY 1205 Advanced Processes and Techniques 4 hrs
PGY 1401 Fundamentals of Photography 4 hrs
PGY 1402 Photographic Materials and Processes 4 hrs
PGY 2000C 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 2990 Applied Photography 4 hrs

4. Upper Division Required Courses (36 hrs)
   - ARH 3710 History of Photography I 3 hrs
   - ARH 3711 History of Photography II 3 hrs
   - COM 4014 Gender issues in Communication or COM 4461 Intercultural Communication 3 hrs
   - ENC 3250 Professional Writing 3 hrs
   - IDS 3887C Digital Imagery 3 hrs
   - PGY 3610C Photojournalism I 3 hrs
   - PGY 3640C Photomedia II 3 hrs
   - PGY 4220C Advanced Photography 3 hrs
   - PGY 4420C Advanced Photography (repeat for credit) 3 hrs
   - PGY 4440C Special Problems in Photography 3 hrs
   - PGY 4941 Internship 3 hrs

5. Upper Division Restricted Electives (6 hrs)
Select from upper level courses, with program coordinator’s approval. May be outside the department.

6. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 42 semester hours of upper division credit completed.
- 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:
- ARH 1000* May substitute ARH 2005 or ARH 2050
- GRA 1741* May substitute GRA 2111C
- GRA 1800* May substitute GRA 2140C
- PGY 1401* May substitute PGY 2401

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 four parts of the CLAST examination (no alternative or waivers are accepted)
- Complete prerequisite courses
Degree Requirements:

Students should consult with an advisor.

1. UCF General Education Program (37 hrs)
   A. Communication Foundations (9 hrs)
      ENC 101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      Select one: 3 hrs
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   E. Science Foundations (7 hrs)
      PSC 1121 Physical Science 3 hrs
      BSC 2010C General Biology 4 hrs

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I GEP
      ENC 1102 Composition II GEP
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy GEP
      Select one: 3 hrs
      ARH 2050 The History of Art I or
      ARH 2051 The History of Art II or
      MUL 2010 Enjoyment of Music or
      THE 2000 Theatre Survey or
      FIL 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): 3 hrs
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877 GEP
      AMH 2020 U.S. History 1877-Present GEP
      POS 2041 American National Government GEP
      PSY 2012 General Psychology GEP
   E. Science (25 hrs)
      PSC 1121 Physical Science GEP
      BSC 2010C General Biology GEP
      Select one: 3 hrs
      AST 2002 Astronomy or
      GEO 1200 Physical Geography or
      GLY 1030 Geology and its Applications
   F. Education Courses (9 hrs)
      EDF 3005 Introduction to Education 3 hrs
      EDS 2701 Teaching Diverse Populations 3 hrs
      EME 2040 Technology for Educators 3 hrs
   G. Diversity Courses (3 hrs)
      Select one: 3 hrs
      PEO 2011 Team Sports or
      PEO 2031 Indv. Sports and Leisure Activities

3. Education Core Requirements (15 hrs)
   EDG 4323 Professional Teaching Practices 3 hrs
   EDF 4503 Analysis of Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs
   TSL 4080 Thry & Prac Teaching ESOL Students in Schools 3 hrs
   RED 4043 Content Reading K-12 3 hrs

4. Specialization Requirements (30 hrs)
   Physical Education (K-8)
   DAE 3870 Dance & Rhythmic Arts 3 hrs
   PEO 3041 Games for Elemntry School Physcl 3 hrs
   PEP 3205 Gymnastics 3 hrs
   PET 2622C Human Injuries 3 hrs
   PET 4050C Motor Development & Learning 3 hrs
   PET 4312 Biomechanics 3 hrs
   PET 4351 Applied Exercise & Human Physiology 3 hrs
   PET 4401 Administration and Evaluation in PE 3 hrs
   PET 4616 Adapted PE 3 hrs
   PET 4823 Teaching Sports Skills 3 hrs

5. Internship I and Methods Block (6 hrs)
   PET 3940 Internship I 3 hrs
   PET 4710 Internship I 3 hrs
   ■ EDG 4323 must be completed before registering for Internship I
   ■ PET 4710 must be taken concurrently with PET 3940
   ■ Junior/senior standing required. Normally taken during next to last full time semester
   ■ See additional requirements in College of Education, Office of Clinical Experiences

6. Internship II (PET 4943) (12 hrs)
   ■ All methods/specialization courses must be completed with a letter grade of 'C' (2.0) or better before registering for Internship II
   ■ See additional requirements in College of Education, Office of Clinical Experiences
   ■ Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with the State Board of Education Rule 6A-5.065

7. Optional Certification and Endorsement
   6-12 Certification (6 hrs)
      PET 3765 Coaching Theory 3 hrs
      PET 4550 Fitness Assessment and Exercise 3 hrs
   Coaching Endorsement (6 hrs)
      PET 3765 Coaching Theory 3 hrs
      Select one of the following courses: 3 hrs
      PEO 2624 Coaching Basketball
      PEO 3324 Coaching Volleyball
      PEO 3644 Coaching Football

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

9. Departmental Exit Requirements
   ■ Achieve a minimum 2.5 GPA in all courses within the major.
   ■ Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   ■ Pass all applicable sections of the Florida Teacher Certification Examination.

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

Total Semester Hours Required 125 hours

PHYSICS (B.S.)
College of Arts and Sciences
Physics Department, MAP 310, 407-823-2325
http://www.physics.ucf.edu
E-mail: physics@ucf.edu

Interim Chair: Ralph Llewellyn, 407-823-2325

Physics majors can select from five distinct tracks to earn their physics degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding between these tracks.

Admission Requirements
■ none

Degree Requirements
■ Students who change degree programs and select this major
must adopt the most current catalog.

- Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   (Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36.)
   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
      9 hrs
   C. Mathematical Foundations
      Select MAC 2311 Calculus for Sci & Eng I 4 hrs
      Select COP 2223 Computer Programming 3 hrs
   D. Social Foundations
      6 hrs
   E. Science Foundations
      Select PHY 2048 & L Physics for Sci & Eng I (PR:MAC 2311) 4 hrs
      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 for Sci & Eng I GEP
   MAC 2312 Calculus for Sci & Eng II 4 hrs
   MAC 2313 Calculus for Sci & Eng III 4 hrs
   PHY 2048 & L Physics Engr & Sci I & Lab GEP
   PHY 2049 & L Physics Engr & Sci II & Lab 4 hrs
   *See Transfer Notes for possible substitutes

3. Core requirements (all tracks) (36 hrs)
   MAP 2302 Differential Equations 3 hrs
   PHY 3101 Physics Engr & Sci II 3 hrs
   PHZ 3113 Intro to Theoretical Methods of Physics 3 hrs
   PHY 3221 Mechanics 3 hrs
   PHY 3503 Thermal and Statistical Physics 3 hrs
   PHY 3533 Electricity and Magnetism I 3 hrs
   PHY 4324 Electricity and Magnetism II 3 hrs
   PHY 4604 Introduction to Quantum Mechanics 3 hrs
   PHY 4605 Introduction to Quantum Mechanics II 3 hrs
   PHY 4912 Directed Independent Research 3 hrs
   (should be done in the area of specialization)
   Laboratory requirements
   PHY 3802L Intermediate Physics Lab 3 hrs
   Select one of the following 3 hrs
   PHY 3752C Physics of Sci Instruments
   PHY 3722C Physics Laboratory: Electronics

4. Specialization: select one specialization
   4.1 General Physics Specialization (18 hrs)
      PHY 4803L Advanced Physics Lab 3 hrs
      Upper Division Restricted Electives 6 hrs
      PHY, PHZ, or AST courses
      Directed Electives 9 hrs
      Courses at a 3000 level or higher, approved by the Physics Department.
      Courses must be chosen in Physics, Mathematics, Chemistry, Computer Science, or Engineering.
   4.2 Materials Physics Specialization (18 hrs)
      Choose one lab from:
      PHY 4803L Advanced Physics Lab 3 hrs
      EEL 5395C Fabrication of Solid State Devices 4 hrs
      Choose nine hours from:
      EEL 3306 Semiconductor Devices 3 hrs
      EGN 3385 Structure and Properties of Materials 3 hrs
      EMA 4413 Electronic Properties of Materials 3 hrs
      CHM 3411L Physical Chemistry Laboratory 2 hrs
      PHZ 5405 Condensed Matter Physics 3 hrs
      EEL 5352 Semiconductor Mat & Device Char 3 hrs
      Directed Electives 6 hrs
      Courses at a 3000 level or higher, approved by the Physics Department.
      Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.
   4.3 Optics and Lasers Specialization (18 hrs)
      PHY 4424L Optical Physics Laboratory 3 hrs
      PHY 4424 Physical Optics 3 hrs
      Choose six hours from:

5. Departmental Exit Requirements
   - Students must have at least a 2.0 GPA in all courses counted toward the major.
   - Students will be required to take a nationally normed test in Physics during their last semester.
   - Students will have an exit interview in their last semester with a representative of the Physics Undergraduate Committee.
   - Computer Competency met by COP 3223 or a departmental exam.

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   Graduation: None

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

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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: Engineering, Mathematics
Related Minors: Mathematics, Physics, Astronomy
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- CHM 2045C*: may use CHM 1040 plus CHM 1041

POLITICAL SCIENCE (B.A.)
College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
R. Handberg, 407-823-2608

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program
   (36 hrs)
   A. Communication Foundations
      9 hrs
   B. Cultural and Historical Foundations
      Prefer AMH 2010 and AMH 2020
      AMH 2020 US History: 1877-Present
      Select from GEP list
   C. Mathematical Foundations
      Select MGF 1106 or Finite Mathematics
      (may substitute a higher level math)
      Select STA 2014C or Principles of Statistics
      STA 1060C Statistics Using Excel
   D. Social Foundations
      Select POS 2041 American National Government
      Select one of the three choices
      3 hrs
      E. Science Foundations
      6 hrs

2. Common Program Prerequisites
   (3 hrs)
   POS 2041* American National Government
   POS 3703* Scope & Methods of Pol Sci
   *See Transfer Notes for possible substitutes

3. Upper Division Restricted Electives
   (30 hrs)
   Choose one of the following emphases
   Emphasis 1: American Politics and Policy
   Five courses from area A
   Two courses from area B
   Two courses from area C
   One additional course from any area
   15 hrs
   Emphasis 2: International Relations-Comparative Politics
   Two courses from area A
   *Five courses from area B
   Two courses from area C
   One additional course from any area
   6 hrs
   *No more than two of the following courses may be considered part of area B's 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
   POS 3173 Southern Politics
   POS 3182 Florida Politics
   POS 3233 Political Opinion
   POS 3235 Mass Media and Politics
   POS 3258 Politics in Film
   POS 3273 Voting and Elections
   POS 3413 The American Presidency
   POS 3XXX Women and Political Behavior
   POS 3424 Congress and the Legislative Process
   POS 3443 Political Parties and Processes
   POS 3463 Interest Groups
   POS 3627 Cultural Pluralism and the Law
   POS 4142 Metropolitan Politics
   POS 4204 Political Behavior
   POS 4246 Political Socialization
   POS 4284 Judicial Process and Politics
   POS 4412 Presidential Campaigning
   POS 4603 American Constitutional Law I
   POS 4604 American Constitutional Law II
   POS 4622 Politics and Civil Rights
   PUP 4204 Sustainability
   PUP 3209 Urban Environmental Policy
   PUP 3203 Environmental Politics

B. International Relations and Comparative Government
   CPO 3034 Politics of Developing Areas
   CPO 3103 Comparative Politics
   CPO 3104 Politics of Western Europe
   CPO 3403 Politics of the Middle East
   CPO 3614 Politics of Eastern Europe
   CPO 4602 Comparative Judicial Processes
   CPO 4074 Political Economy
   CPO 4123 Women in Comparative Perspective
   GEO 3470 World Political Geography
   IDS 4XXX Global Perspectives
   INR 2002 International Relations
   INR 3016 Global Political Issues
   INR 3253 International Politics of Africa
   INR 4030 Diplomacy
   INR 4035 International Political Economy
   INR 4074 Immigration Policy
   INR 4075 Human Rights Policy
   INR 4076 Global Drug Policy
   INR 4085 Women, Gender, and Globalization
   INR 4102 American Foreign Policy
   INR 4104 Topics and Cases in American Foreign Policy
   INR 4114 American Security Policy
   INR 4115 Strategic Weapons and Arms Control
   INR 4224 Contemporary International Politics of Asia
   INR 4225 The Vietnam War
   INR 4234 International Politics of Latin America
   INR 4304 Issues in International Public Policy
   INR 4335 Coercion in International Politics
   INR 4351 International Environmental Law
   INR 4401 International Law I
   INR 4402 International Law II
   INR 4404 Space Law
   INR 4502 International Organizations
   POS 3253 Contemp Revolution & Political Violence
   PUP 3508 Space Studies
   PUP 4305 International Environmental Politics
   PUP 4510 Space Policy

C. Political Theory
   CPO 4003 Topics and Cases in Political Theory
   CPO 4035 Contemporary Political Theory
   CPO 4040 Political Theory of the Modern State
   CPO 4054 Modern Political Philosophy
   CPO 4066 Contemporary Political Theory
   CPO 4072 Political Theory and Literature
   CPO 4305 The State, Society, And The Individual
   CPO 4314 Contemporary Democratic Theory
   CPO 4331 Utopia/Dystopia
   CPO 4414 Marxist Political Theory
   CPO 4632 Religion and Politics

4. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in the major.
   - Computer Competency met by POS 3703

5. Foreign Language Requirements
   (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: 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.

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

Internship Program: Political Science
For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

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

Total Semester Hours Required: 120 hours

Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
  - POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

POLITICAL SCIENCE (B.A.) - INTERNATIONAL STUDIES TRACK

College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
R. Handberg, 407-823-2608

Admission Requirements: none
Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      - Prefer AMH 2010 US History: 1492-1877 and AMH 2020 US History: 1877-Present 3 hrs
      - Select from GEP list 3 hrs
   C. Mathematical Foundations
      - 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 Government 3 hrs
      - Select one of the three choices 3 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (6 hrs)
   INR 2002* International Relations-Theory and Practice 3 hrs
   ECO 2013* Macroeconomics 3 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements (15 hrs)
   GEO 3470 World Political Geography 3 hrs
   IDS XXXX Global Perspectives 3 hrs
   IDS 4XXX Capstone in International Studies 3 hrs
   POS 3703 Scope and Methods of Political Science 3 hrs
   INR 4603 International Relations Theory 3 hrs

4. Restricted Electives (18 hrs)
   Note: Students must meet all prerequisites before taking these classes.
   Regional 9 hrs
   INR 3203 American Foreign Policy 3 hrs
   INR 4104 Topics and Cases in American Foreign Policy 3 hrs
   INR 4114 American Security Policy 3 hrs
   INR 4115 Strategic Weapons and Arms Control 3 hrs
   INR 4224 Contemporary International Politics of Asia 3 hrs
   INR 4243 International Politics of Latin America 3 hrs
   INR 4304 Issues in International Public Policy 3 hrs
   INR 4335 Coercion in International Politics 3 hrs
   INR 4351 International Environmental Law 3 hrs
   INR 4401 International Law I 3 hrs
   INR 4402 International Law II 3 hrs
   INR 4404 Space Law 3 hrs
   INR 4502 International Organizations 3 hrs
   INR 4941 Internship (a maximum of 3 hours) 3 hrs
   PUP 4503 International Environmental Politics 3 hrs
   PUP 4510 Space Policy 3 hrs

Other courses may be substituted with the chair’s approval.

5. Required minor (18 hrs minimum)
   Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, Russian Area Studies, or Spanish.
   Note: No more than one course may be used to fulfill both this track and the minor.

6. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in the major
   - Computer Competency met by POS 3703

7. Foreign Language Requirements (0-14 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to two years (four semesters) 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 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

Degree Requirements

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

POLITICAL SCIENCE - PRELAW TRACK (B.A.)

College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the Department’s prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     - Select STA 2014 Principles of Statistics or STA 1060C Statistics Using Excel
     - Select POS 2041 American National Gvt
     - Select one of the three choices
     - E. Science Foundations
     - 6 hrs
   - B. Cultural and Historical Foundations
     - Prefer AMH 2010 US History: 1492-1877 and AMH 2020 US History: 1877-Present
     - Select from GEP list
     - 3 hrs
     - Select MGF 1106 Finite Mathematics
     - 3 hrs
     - 9 hrs
   - C. Mathematical Foundations
     - 6 hrs

2. Common Program Prerequisites (3 hrs)
   - POS 3703*: Scope & Methods of Pol Sci
   - 3 hrs

3. Upper Division Restricted Electives (30 hrs)
   - POS 4284* Judicial Process and Politics
   - Select one of the following:
     - POS 4601* American Constitutional Law I
     - POS 4604* American Constitutional Law II
     - INR 4401 International Law I
     - INR 4402 International Law II
   - Select one (See listing under Political Science)
     - Five courses from area A and
     - Two courses from area B
     - Two courses from area A and
     - Five courses from area B
     - 15 hrs
     - 6 hrs
     - 6 hrs
     - 15 hrs
     - 3 hrs

4. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in the major
   - Computer Competency met by POS 3703

5. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: 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.

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

   Some suggested electives include:
   - ACG 2071 Principles of Managerial Accounting
   - ACG 2071 Principles of Financial Accounting
   - BUL 3320,3321 Business Law I & II
   - PLA 3104 Legal Research
   - PLA 3105 Legal Writing
   - PHI 2101 Critical Thinking
   - PHI 2100 Formal Logic I
   - MHF 3302 Logic and Proof in Mathematics
   - ENC 3241 Writing for the Technical Professional
   - ENC 3250 Professional Writing
   - LIN 4100 History of the English Language
   - Internship Program: Political Science

   For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

   (may substitute a higher level math)

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

Total Semester Hours Required 120 hours

Related Programs: Economics, History, Philosophy
Related Minors: Economics, History, English, Philosophy

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

PSYCHOLOGY (B.A.)
College of Arts and Sciences
Psychology Department, PH 302B, 407-823-2216
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
TBA, 407-823-2216
Psychology Advising Center: PH 305G 407-823-2219
Students majoring in Psychology as the foundation of a Liberal Arts degree will probably find the BA option an appropriate degree. Not open to BS Psychology majors.

Admission Requirements
none
Degree Requirements
Students who change degree programs and select this major must adopt the most current catalog.

Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department.

Students must earn at least a “C” (2.0) in each Psychology course counted toward the major requirements.

Co-op or internship credit cannot be used in this major without prior approval.

Students should consult with the Department Director of Undergraduate Advising HPV 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
The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology.

Application and admission through the department.

Fulfill University requirements for Honors in the Major.

Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3214C. No grades can be below a “B” (3.0).

Have an overall UCF GPA above 3.2.

PSY 4903H Directed Honors Readings
3 hrs

PSY 4970H Undergraduate Honors Thesis
3 hrs

1. UCF General Education Program
(36 hrs)

A. Communication Foundations
8 hrs

B. Cultural and Historical Foundations
9 hrs

C. Mathematical Foundations
Select MGF 1106 Finite Math (may substitute a more advanced math) 3 hrs
Select STA 2023 Statistical Methods I or STA 2014C Principles of Statistics 3 hrs

D. Social Foundations
Select one of the listed choices
Select PSY 2012 General Psychology 3 hrs

E. Science Foundations
Select one of the listed choices
Select SOP 3742 Psychology of Women 3 hrs

F. Division courses
Select primarily from upper level courses, with departmental adviser’s approval. May be outside of the department.

2. Common Program Prerequisites
(3 hrs)

BSC 1005* Biological Principles
GEP

PSY 2012* General Psychology
GEP

DEP 2004* Developmental Psychology 3 hrs

STA 2014C Principles of Statistics 3 hrs

3. Core requirements
(10 hrs)

EXP 3404 Basic Learning Processes 3 hrs

PSB 3002 Physiological Psychology 3 hrs

PSY 3214C Research Methods 4 hrs

4. Restricted Electives
(12 hrs)

Select two of the following three courses 6 hrs

DEP 2004 Developmental Psychology

PPE 3003 Personality Theory

SOP 3004 Social Psychology

Select six additional upper division hours in Psychology 6 hrs

5. Diversity
(9 hrs)

Take three diversity courses: one from A, one from B, and one from either A or B.

A. Psychology Diversity courses

DEP 3464 Psychology of Aging

SOP 3723 Cross Cultural Psychology

SOP 3724 Psychology of Racial Prejudice

SOP 3742 Psychology of Women

SOP 2772 Sexual Behavior

SOP 3784 Psychology of Diversity

B. General Diversity courses

Select from courses outside the Psychology department that focus on gender, class, or minority issues:

AMH 3421, 3423, 3561, 3562, 3571, 3572, 3586; AMI, 3283, 3614, 3615, 3640, 4261; ANT 3241, 3245, 3302, 3311, 3313, 3332, 3363, 3541, 3640; ARH 3520, 4458; ASH 4304, 4404, 4442; CCJ 4463, 4670; CJE 4174; CLA 3851; COM 4014, 4461; COP 3403; EUH 4576; FIL 3309; GEO 3470; GEY 3001; HSC 4564; HUM 3202, 3401, 3419; JST 3401, 3402; LAH 3130, 3200, 3400, 5713; LIN 4643; LIT 3354, 3383, 3912; MMC 4300; NUR 3809, 3616; PAD 4446; PHI 3022, 3303; PHM 3123; PLA 4020, 4830; POS 4246, 4622; PUB 3314, 4323; REL 3162; SOW 3420; SPA 4612, 4613; SWP 4772; SYD 3700, 3750, 3751, 3800; SYR 4223, 4730, 4734, 4810, 4813, THE 5230; 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.

7. Foreign Language Requirements
(8 hrs)

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives
(variable)

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

9. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

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

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

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

Total Semester Hours Required 120 hours

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:
UCF Degree Programs

- BSC 1005*: any lower level BSC course or ZOO X010.
- PSY 2012*: any PSY course. However PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023* or STA 2014C: any lower level STA course. However, STA 2023 (or STA 2014C) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004*: any lower level psychology course.

PSYCHOLOGY (B.S.)

College of Arts and Sciences
Psychology Department, PH 302B, 407-823-2216
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
Psychology Advising Center: PH 305 G, 407-823-2219

Students who desire a quantitative background in statistics, math, and science are encouraged to complete the program of study leading to the BS degree. Not open to BA Psychology majors.

Admission Requirements: none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department.
- Students must earn at least a “C” (2.0) in each Psychology course counted toward the major requirements.
- 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 3214C. No grades can be below a “B” (3.0).
- Have an overall UCP GPA above 3.2.
- PSY 4903H Directed Honors Readings 3 hrs
- PSY 4970H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (37 hrs)

A. Communication Foundations
- 9 hrs

B. Cultural and Historical Foundations
- 9 hrs

C. Mathematical Foundations
- Select MG 1106 Finite Math (may substitute a more advanced math) (3 hrs)
- STA 2023 Statistical Methods I or STA 2014C Principles of Statistics 3 hrs

D. Social Foundations
- Select one of the listed choices 3 hrs
- PSY 2012 General Psychology 3 hrs

E. Science Foundations
- Select BSC 2010C General Biology or BSC 1005 4 hrs
- STA 2014C Principles of Statistics 3 hrs

2. Common Program Prerequisites (3 hrs)

BSC 2010C* General Biology or GEP
BSC 1005 (If no additional Biology courses are planned) or PSY 2012* General Psychology 3 hrs
DEP 2004* Developmental Psychology 3 hrs
STA 2023* Statistical Methods I or STA 2014C Principles of Statistics 3 hrs

3. Core requirements (14 hrs)

EXP 3404 Basic Learning Processes 3 hrs
PSB 3002 Physiological Psychology 3 hrs
PSY 3214C Research Methods 4 hrs
PSY 4215C Advanced Research Methods 4 hrs

4. Restricted Electives (12 hrs)

A. Select two of the following: 6 hrs
- DEP 2004 Developmental Psychology
- FPE 3003 Personality Theory
- SOP 3704 Social Psychology

B. Psychology electives: select six additional upper division hours in psychology

5. Diversity courses (6 hrs)

A. Psychology Diversity courses 3 hrs
- DEP 3464 Psych of Aging
- SOP 3723 Cross Cultural Psychology
- SOP 3724 Psych of Racial Prejudice
- SOP 3742 Psych of Women
- SOP 2772 Sexual Behavior
- SOP 3784 Psychology of Diversity

B. General Diversity courses 3 hrs
- Select from courses outside the Psychology department that focus on gender, class or minority issues.

6. Science Electives (12 hrs)

A. Select at least six credits outside Psychology from: 6 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 3211 Theory and Practice of Technical Writing
- ENC 4280 Technical Writing Style
- MAC 2233 Concepts of Calculus
- MAC 2253 Applied Calculus I
- MAC 2254 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 3513 Cognitive Psychology
- EXP 4507C Advanced Human Memory and Cognition
- PSB 3441 Psychobiological Aspects of Drugs
- PSB 4422 Brainwaves and Behavior
- PSB 4013C Neuropsychology
- PSY 3302 Psychological Measurement
- PSY 3220C Survey Methods in Psychology
- PSY 4215L 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 3214C.

8. Foreign Language Requirements (0-8 hrs)

A. 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)

- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable).
- Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.
10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Total Semester Hours Required 120 hours

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice

Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private institutions 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.

PUBLIC ADMINISTRATION
(B.A., B.S.)

College of Health and Public Affairs
HPA2 238, 407-823-2604
http://www.cohpa.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
   D. Social Foundations (nine hours required for major) 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
   CGS 1060C Intro to Computer Science 3 hrs
   POS 2041 American National Government 3 hrs
   ECO 2013 Principles of Macroeconomics 3 hrs

3. Core Requirements (18 hrs)
   PAD 3003 Public Admin. in American Society 3 hrs
   PAD 4034 Administration of Public Policy 3 hrs
   PAD 4104 Administrative Theory 3 hrs
   PAD 4204 Fiscal Management 3 hrs
   PAD 4414 Public Personnel Administration 3 hrs
   PAD 4720 Survey Research in Public Administration 3 hrs

4. Upper Division Restricted Electives (39 hrs)
   Public Administration electives are required as follows:
   - Double Majors, those who complete a PAD major, and those of another UCF major, must take a minimum of 15 hrs PAD pre-fixed 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) approved by the Department.

7. Foreign Language Requirements (8-9 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 hours

Related Programs: Accounting, Communications, Economics, Legal Studies, Computer Science, Social Work, Political Science, Criminal Justice, Health Services Administration, Management

Related Minors: Communications, Business, Economics, Political Science, Legal Studies, Criminal Justice

Transfer Notes:
- Intro. to Computer Science (CGS 1060C) or any Computer Science course
- Economics I (ECO 2013) or any Macroeconomics course
- American National Government (POS 2041) or any course in American National Government
**UFC Degree Programs**

**Tentative Course Schedule for Entering Freshmen**

<table>
<thead>
<tr>
<th>Freshman Year*</th>
<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>
<td></td>
</tr>
<tr>
<td>CJS 1060C</td>
<td>3</td>
<td>MGF 1106</td>
<td>3</td>
<td></td>
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<td>POS 2041</td>
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<td>PSY 2012 or SYG 2000</td>
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**Sophomore Year**

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<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tr>
<td>SPC 1600</td>
<td>3</td>
<td>PAD 3003</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2000 or HUM 2211</td>
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<td>EUH 2001 or WOH 2202 or HUM 2230 or HUM 2230</td>
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<tr>
<td>or AMH 2010 or WOH 2012</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ECO 2013</td>
<td>3</td>
<td>AMH 2020</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1005 or MCB 1310</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>or GLY 1030 or GEO 1200</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>or ANT 2511</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
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**Junior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>15/16 hrs</th>
<th>Spring</th>
<th>15/16 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 4104</td>
<td>3</td>
<td>PAD 4034</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4414</td>
<td>3</td>
<td>PAD 4204</td>
<td>3</td>
</tr>
<tr>
<td>PAD Elective</td>
<td>3</td>
<td>PAD 4720</td>
<td>3</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3</td>
<td>PAD Elective</td>
<td>3</td>
</tr>
<tr>
<td>(Foreign Lang I) or B.S. option</td>
<td>3/4</td>
<td>(Foreign Lang II) or B.S. option</td>
<td>3/4</td>
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**Senior Year**

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<thead>
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<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>12/15 hrs</th>
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<td>PAD Elective</td>
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<td>PAD Internship</td>
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<tr>
<td>Restricted Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 246
407-823-2681

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

E-mail: radiotv@ucf.edu

M. Meeske

**Admission Requirements - Limited Access**

- Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are: October 1, 2004 for Spring 2005, January 1, 2005 for Summer 2005, and July 1, 2005 for Fall 2005.
- Attain an overall minimum 2.25/4.00 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies each term with the quality of applicants, and during the previous year, ranged from a minimum of 2.9.
- Meet a grammar proficiency standard.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students may complete an internship off campus in a professional broadcast, production, or corporate operation.
- Co-op or internship credit can be used in this major without prior departmental permission.
- Students should consult with a School advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation.
- All students are required to pay a fee for equipment insurance.
- A maximum of 3 credit hours of internship may be earned in one semester. A total of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internships are available during "C" (2.0) term only.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. **UF General Education Program** (36 hrs)

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

   **B. Cultural and Historical Foundations**
   - Select POS 2041
   - Select MGF 1106 (may substitute a higher level math) 3 hrs
   - Select CGS 1060C Intro. to Computer Science 3 hrs

   **C. Mathematical Foundations**
   - Select MGF 1106 Finite Mathematics 3 hrs
   - Select MCB 1310
   - Select MCB 1310

   **D. Social Foundations**
   - Select PHI 2010
   - Select LIT 2110
   - Select LIT 2120

   **E. Science Foundations**
   - Select SPC 1600 Fund Oral Communication
   - Select SPC 1600 Fund Oral Communication

2. **Common Program Prerequisites**

   **SPC 1600** Fund Oral Communication GEP

3. **Core requirements (all areas)** (21 hrs)

   - Select one of the following: 3 hrs
   - Select any course from the following:
   - Select any course from the following:
   - Select any course from the following:
   - Select any course from the following:
   - Select any course from the following:

   **CGS 2100C** Computer Fundamentals of Business
   **CGS 2585C** Desktop/Internet Publishing
   **CGS 3175** Internet Applications
   **RTV 2102** Writing for the Electronic Media
   **RTV 3200** Production and Structure of Electronic Media
   **RTV 3000** Development and Structure of Media and New Technology
   **MMC 4200** Mass Communication Law
   **RTV 4403** Elec Media, Tech, and Society
   **MMC 3420** Mass Media Comm Research Meth

4. **Specialization: select one area**

   **Production** (18 hrs)
   - Select 18 hours from the following:
   - Select 18 hours from the following:
   - Select 18 hours from the following:
   - Select 18 hours from the following:
   - Select 18 hours from the following:

   **RTV 3210C** Audio Production I 4 hrs
   **RTV 3229C** Studio Television Production 4 hrs
   **RTV 3223C** Lighting for Video 3 hrs
   **RTV 3260C** Single-Camera Video Production 4 hrs
   **RTV 3263C** Advanced Video Post-Production 3 hrs
   **RTV 3280C** Production of Int. Multimedia 3 hrs
   **RTV 3942L** Practicum 1-2 hrs
   **RTV 4211C** Audio Production II 3 hrs
   **RTV 4280C** Webcasting I 3 hrs
   **RTV 4281C** Webcasting II 4 hrs
   **RTV 4286C** Television Directing 4 hrs
   **RTV 4270C** Radio Production & Programming 3 hrs
   **RTV 4941** Internship 1-3 hrs

   **Broadcast Journalism** (19 hrs)
   - Select 12 hours from Group A:
   - Select 12 hours from Group A:
   - Select 12 hours from Group A:
   - Select 12 hours from Group A:
   - Select 12 hours from Group A:

   **RTV 3260C** Single-Camera Video Production 4 hrs
   **RTV 3301** Electronic Journalism I 3 hrs
   **RTV 3304** Electronic Journalism II 3 hrs
   **RTV 4302C** Television News 3 hrs
   **MMC 4602** Contemporary Media Issues 3 hrs
   **JOU 3004** History of American Journalism 3 hrs

   **Broadcast Generalist** (18 hrs)
   - Select 6 hours from Group B:
   - Select 6 hours from Group B:
   - Select 6 hours from Group B:
   - Select 6 hours from Group B:
   - Select 6 hours from Group B:

   **RTV 3321C** Broadcast Announcing & Performance 4 hrs
   **RTV 4270C** Radio Production & Programming 3 hrs
   **RTV 4700** Broadcast Regulations 3 hrs
   **RTV 4800** Broadcast Management 3 hrs
   **ADV 4103** Radio-TV Advertising 3 hrs
   **CMC 4240** Concept/Institutional Video 3 hrs
   **COM 3330** Computer-Mediated Comm. 3 hrs
   **MMC 4263** New Media Technologies 3 hrs
   **ADV 3000** Principles of Advertising 3 hrs
   **PUR 4000** Public Relations 3 hrs
5. Required Minor
Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

6. School Exit Requirements
To avoid delaying graduation, you must request a review of requirements before registering for your last term.
Achieve an overall "C" GPA (2.0) in required UCF Radio/TV courses. This GPA does not include Restricted Electives in the major or other electives.
Computer Competency met by program admission test.

7. Foreign Language Requirements
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

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

Total Semester Hours Required
120 hours

Related Programs:
Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre

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
Limited Access
- Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program
- Separate application to the limited access program must be made directly to the program on or before March 1 of the year admission is sought
- UCF application must be submitted by the program deadline of March 1. Acceptance to UCF is necessary before acceptance to the program can occur
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor
- Criminal history information (background check) must be submit-
UCF Degree Programs

A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

6. Electives
   none

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements
   ■ An overall GPA of 2.5
   ■ 60 semester hours earned after CLEP awarded
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residence at UCF
   ■ 25% of course work must be completed in residency at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (124 hours)

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration

Related Minors: Health Services Administration

Transfer Notes:

Credit by Examination
Credit by Exam for clinical education courses will be awarded to ARRT certified Registered Technologists who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated by registration in multiple disciplines, registration in an advanced level of certification or completion of the Advanced Clinical Practicum course. Students who successfully complete the requirements for credit by exam will be awarded a grade of "S" for the clinical education courses required in their program of study.

Credit by exam for didactic courses will be awarded according to the process described in the UCF catalog.

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Community College Equivalents:
Human Anatomy and Physiology I and II (BSC X085C and BSC X086C or BSC 2093C and BSC 2094C) 8
College Algebra (MAC 1105) OR (MAC 1102) 3
College Physics I (PHY 2053C) 4
College Physics II (PHY 2054C) 4
Introduction to Computer Science (CGS 1060C) or any other Computer Science course 3

Tentative Course Schedule for Entering Freshmen

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
CHM 1032 4 ECO 2013 or POST 2041 or
HSC 2000 2 ECO 2023
STH 2010 or THE 2000 or
REL 2300 or PHI 2010 or
ARH 2050 or FIL 2400

Sophomore Year
Fall 14 hrs Spring 14 hrs
PHY 2053C 4 PCB 3070C 4
ZOO 3733C 4 SPC 1600 3
EUH 2000 or HUM 2211 3 PHY 2054C 4
or AMH 2010 or HUM 2230 or AMH 2020 3
PSY 2012 or SYG 2000 or ANT 2000 3

Junior Year
Fall 16 hrs Spring 16 hrs
RTE 3000 3 RTE 3457C 3
RTE 311C 2 RTE 3604 4
RTE 314BC 3 RTE 3513C 3
RTE 3503C 3 HSC 4550 3
RTE 3684C 2 RTE 3116 3
HSC 3640 3

Summer 13 hrs
STA 2023 3
RTE 4814L 5
RTE 3308 3
RTE 4563 2

Senior Year
Fall 13 hrs Spring 14/16 hrs
RTE 4385 1 RTE 4834 4
RTE 4762 3 RTE 4854** 2
RTE 4824L 6 RTE 4782 2
RTE 4573 3 RTE 4473 3
RTE 4206 3
Electives: RTE 4209 or RTE 4903 (2)

Summer 6 hrs
RTE 4844 4
RTE 4854** 2

**Completed during the Spring or Summer semester/term.

RADIOLOGIC SCIENCES (B.S.)

AS to BS TRACK
Note: For detailed information about this programs, see description in the AS to BS Program section.

RESTAURANT AND FOODSERVICE MANAGEMENT (B.S.)

Rosen School of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-823-2188 or 407-903-8900
http://www.hospitality.ucf.edu

Dean: Abraham Pizam

Degree Requirements

1. UCF General Education Program (GEP) (36 hrs)
   A. Communications Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 9 hrs
   Select 1 course:
   Select MAC 1105 College Algebra 3 hrs
   Select CGS 2100 Computer Fundamentals for Business 3 hrs
   STA 2023 Statistical Methods I 3 hrs
   D. Social Foundations 9 hrs
   Select ECO 2013 Macroeconomics 3 hrs
   Or
   Select ECO 2023 Microeconomics 3 hrs
   Select one:
   STA 2023 Statistical Methods I 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites (6 hrs)
   CGS 2100 General Education Program (GEP)
   or STA 2023 General Education Program (GEP)
   ECO 2013 Microeconomics 3 hrs
   or ECO 2023 Microeconomics 3 hrs
   MAC 1105 College Algebra 3 hrs
   HFT 1000 Introduction to Hospitality Management 3 hrs
   FSS 2221C Quantity Food Preparation 3 hrs

3. Management Tools (25 hrs)
   HFT 2403 Hospitality Financial Accounting 3 hrs
   HFT 2500 Hospitality Marketing 3 hrs
   HFT 2200 Hospitality Human Resources 3 hrs
   HFT 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 Mgmt 1 hr

4. Internship (3 hours)
HFT 3941 Practicum I 1 hr
HFT 3942 Practicum II 1 hr
HFT 4941 Practicum III 1 hr

5. Restaurant Management Core (18 hours)
HFT 4268 Case Studies in Restaurant Management 3 hrs
HFT 4134 Hospitality Facilities, Planning and Design 3 hrs
FSS 3124 Supply and Procurement Management 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
HFT 4266 Restaurant Brand Management 3 hrs
FSS 4338 Food and Beverage Management in Hospitality Operations 3 hrs

6. Special School Requirements
- Final exams will be given during Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.

7. Restricted Electives (18 hrs)
Choose any courses from the list below for a total of 18 credit hours
HUN 3013 Nutrition Concepts and Issues in Foodservice 3 hrs
FSS 3223C Intermediate Techniques of Food Production 3 hrs
HFT 3807 Multi-Unit Food Service Operations 3 hrs
FSS 4286C Catering and Banquet Organization 3 hrs
HFT 4645 Restaurant Real Estate, Site Selection & Modeling 3 hrs
HFT 4861C Beverage Management 3 hrs
HFT 4425 Financial Analysis for Restaurant Managers 3 hrs
HFT 4XXX Restaurant Technology and MIS 3 hrs
HFT 3574 Foodservice Marketing, Advertising, and Promotion Management 3 hrs
HFT 4871 Case Studies in Multi-Unit Restaurant Mgmt 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 3003 Culture and Cuisine 3 hrs
HFT 3XXX Law and Restaurant Management 3 hrs
HFT 4XXX International Restaurant Corporation Management 3 hrs
HFT 4XXX The Micro-Economics of Foodservice 3 hrs
HFT 4XXX Restaurant Interior and Environmental Design 3 hrs
HFT 4XXX Issues in Restaurant Performance 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 4XXX Exploring Wines of the World 3 hrs

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

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 hours of upper division credit completed
- 30 semester hours of coursework completed in residency (last 30 hours) at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable).

10. Unrestricted Electives (6 hrs)
As necessary to result in 120 total credit hours.

Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF’s Rosen School of Hospitality Management.
- Florida Public Community College students are encouraged to complete general education requirements, prior to transferring at UCF.
- A minimum of 30 semester hours must be completed at UCF within the Rosen School of Hospitality Management.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

Four Year Plan of Study for B.S. Restaurant Management*
Plan your required nine summer credit hours into your course of study.

Freshmen Year
Fall 15 Hrs 15 Hrs 15 Hrs
ENC 1101 - Eng Comp I 3 Hrs SPG 3020 - Intro to Hosp Man 3 Hrs ESC 2010 - Hospitality Mgmt 3 Hrs
Cult/Hist Found Sequence I 3 Hrs SPG 3020 - Intro to Hosp Man 3 Hrs MAC 105 - College Algebra 3 Hrs
CSG 2100C or STA 223 3 Hrs HFT 3000 - Hosp Fin Acct 3 Hrs MAC 105 - College Algebra 3 Hrs
HFT 1000 - Intro to Hosp Man 3 Hrs HFT 3220 - Hosp Hum Res Mgmt 3 Hrs MAC 1005 - College Algebra 3 Hrs
PSY 2012, SYG 2000, or ANT 2000 3 Hrs HFT 3220 - Hosp Hum Res Mgmt 3 Hrs MAC 1005 - College Algebra 3 Hrs
Spring 15 Hrs 15 Hrs 15 Hrs
ENC 1102 - Eng Comp II 3 Hrs SPG 1600 - Fund Oral Comm 3 Hrs FSS 2212C - Quant Food Prep 3 Hrs
Cult/Hist Found Sequence II 3 Hrs MAC 1005 - College Algebra 3 Hrs
HFT 3000 - Hosp Fin Acct 3 Hrs MAC 1005 - College Algebra 3 Hrs

Sophomore Year
Fall 15 Hrs 15 Hrs 15 Hrs
Science Foundation I 3 Hrs Science Foundation II 3 Hrs
ECO 2013 or ECO 2023 3 Hrs SPG 3020 - Intro to Hosp Man 3 Hrs MAC 1005 - College Algebra 3 Hrs
HFT 3261 - Restaurant Mgmt 3 Hrs SPG 3124 - Sup & Prod Mgmt 3 Hrs
HFT 2403 - Hosp Fin Acct 3 Hrs HFT 3444 - Hosp Info Sys Mgmt 3 Hrs
HFT 3220 - Hosp Hum Res Mgmt 3 Hrs HFT 2500 - Hosp Marketing 3 Hrs
Junior Year
Fall 14 Hrs 16 Hrs 16 Hrs
HFT 3540 - Guest Svc Mgmt 3 Hrs HFT 4268 - Case Studies in F.S. 3 Hrs
HFT 3546 - Rest Brand Mgmt 3 Hrs HFT 4266 - Rest Brand Mgmt 3 Hrs
HFT 3431 - Hospitality Mgmt Act 3 Hrs HFT 4266 - Rest Brand Mgmt 3 Hrs
FSS 4338 - F&B Mgmt in Hosp Ops 3 Hrs HFT 4343 - F.S. Equip & Design 3 Hrs
HFT 3940 - Practicum I 1 Hr HFT 3940 - Practicum I 1 Hr
HFT 3933 - Dist Lect in Hosp 1 Hr HFT 3940 - Practicum II 1 Hr
Spring 15 Hrs 15 Hrs 15 Hrs
Fall 15 Hrs 15 Hrs 15 Hrs
HFT 3540 - Guest Svc Mgmt 3 Hrs HFT 4268 - Case Studies in F.S. 3 Hrs
HFT 3546 - Rest Brand Mgmt 3 Hrs HFT 4266 - Rest Brand Mgmt 3 Hrs
HFT 3431 - Hospitality Mgmt Act 3 Hrs HFT 4266 - Rest Brand Mgmt 3 Hrs
HFT 3940 - Practicum I 1 Hr HFT 3940 - Practicum I 1 Hr
HFT 3933 - Dist Lect in Hosp 1 Hr HFT 3940 - Practicum II 1 Hr
Senior Year
Fall 15 Hrs 15 Hrs 15 Hrs
Rest & F.S. Elective 3 Hrs Rest & F.S. Elective 3 Hrs
Rest & F.S. Elective 3 Hrs Rest & F.S. Elective 3 Hrs
Rest & F.S. Elective 3 Hrs Rest & F.S. Elective 3 Hrs
Rest & F.S. Elective 3 Hrs Rest & F.S. Elective 3 Hrs
Unrestricted Electives 5 Hrs Unrestricted Elective 3 Hrs

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: awweeney@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 or state university
- Have a minimum 2.5 overall GPA
- Pass four parts of the 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 1010 - U.S. History 1492-1877 3 hrs
AMH 2020 - U.S. History 1877-Present 3 hrs
PHI 2010 - Introduction to Philosophy 3 hrs
C. Mathematical Foundations (6 hrs)
MGC 1106 - Finite Mathematics 3 hrs
Select one:
- 3 hrs
At least 50% of all required biology courses must be completed.

- **SCE 4360** Science Instructional Analysis 4 hrs
- **LAE 4361** Literacy Strategies for Mid/High School 3 hrs
- **TSL 4080** Theory and Practice of Teaching ESOL 3 hrs
- **EDF 4214** Classroom Learning Principles 3 hrs
- **EDF 4603** Analysis of Critical Issues in Education 3 hrs
- **EDG 4323** Professional Teaching Practices 3 hrs

3. Education Core Requirements (15 hrs)

- **EDG 2004** Introduction to Education 3 hrs
- **EDG 2005** Technology for Educators 3 hrs
- **CHM 2045** Chemistry Fundamentals I and GEP
- **PHY 2053C** College Physics I and GEP

4. Internship I Block (7 hrs)

- **SCE 4360** Science Instructional Analysis 4 hrs
- **ESE 3940** Internship I 3 hrs

5. Specialization Requirements (22 hrs)

- **PSY 1121** General Psychology 3 hrs
- **BSC 2010C** General Biology 3 hrs
- **BSC 2011C** Biological Diversity 4 hrs
- **CHM 2045C** Chemistry Fundamentals I and GEP
- **CHE 3005** Intro to Organic and Biochemistry 5 hrs
- **PCB 3063L** Genetics Lab 1 hr
- **PCB 3034** Ecology 3 hrs
- **PCB 3034L** Ecology Lab 1 hr
- **MCB 3020C** Microbiology 5 hrs
- **PCB 3703C** Human Physiology or 4 hrs
- **ZOO 3733C** Human Anatomy

6. Restricted Electives (3 hrs)

One 3000- or 4000-level BSC, MCB, PCB, or ZOO course with advisor's approval.

7. Internship II (ESE 4943) (12 hrs)

- **SCE 4360** and at least 80% of all required biology courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practises 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 Practises.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

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

Total Semester Hours Required: 126 hours

**SCIENCE EDUCATION - CHEMISTRY (B.S.)**

Department of Teaching and Learning Principles

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@pegasus.cc.ucf.edu

**Admission Requirements**

- Complete the University General Education Requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass four parts of the CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

**Degree Requirements**

- Students should see an advisor

1. **UCF General Education Program** (37 hrs)

- **A. Communication Foundations** (9 hrs)
  - ENC 1101 Composition I 3 hrs
  - ENC 1102 Composition II 3 hrs
- **B. Cultural-Historical Foundations** (9 hrs)
  - PHI 2010 Introduction to Philosophy GEP
  - MUL 2010 Enjoyment of Music GEP
  - ARH 2050 The History of Art I GEP
  - EME 2040 Technology for Educators 3 hrs
  - GEO 1200 Physical Geography 4 hrs
  - THE 2000 Theatre Survey 3 hrs
  - FIL 2400 History of Motion Pictures 3 hrs
  - THE 2000 Theatre Survey 3 hrs
- **C. Mathematics** (9 hrs)
  - MAC 1105 College Algebra 3 hrs
  - MGF 1106 Finite Mathematics GEP
- **D. Social Science/History** (12 hrs)
  - AMH 2010 U.S. History 1492-1877 GEP
  - AMH 2020 U.S. History 1877-Present GEP
  - POS 2041 American National Government GEP
  - PSY 2012 General Psychology GEP
- **F. Education Courses** (9 hrs)
  - EDF 4214 Classroom Learning Principles 3 hrs
  - EDF 4603 Analysis of Critical Issues in Education 3 hrs
  - TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
  - EDG 2004 Technology for Educators 3 hrs
- **G. Diversity Courses** (6 hrs)
  - ARH 2050 The History of Art I GEP
  - PHI 2010 Introduction to Philosophy GEP
  - MUL 2010 Enjoyment of Music GEP
  - ARH 2050 The History of Art I GEP
  - PHI 2010 Introduction to Philosophy GEP
  - MUL 2010 Enjoyment of Music GEP
- **H. Other Program Prerequisites** (12 hrs)
  - BSC 2010C General Biology GEP
  - BSC 2011C Biological Diversity 4 hrs
  - BSC 2011C Biological Diversity 4 hrs
  - CHM 2045 Chemistry Fundamentals I and GEP
  - CHM 2046 Chemistry Fundamentals II and GEP
  - PHY 2053C College Physics I and GEP
  - PHY 2054C College Physics II

Total Semester Hours Required: 126 hours
### UCF Degree Programs

#### 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@pegasus.cc.ucf.edu

#### Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university  
- Have a minimum 2.5 overall GPA  
- Pass four parts of the CLAST examination (no alternative or waivers are accepted)  
- Complete prerequisite courses  
- Students should see an advisor

#### 1. UCF General Education Program

**36 hrs**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural-Historical Foundations</td>
<td>ARH 2050 The History of Art I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>MAC 1114 College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Science/History</td>
<td>AMH 2020 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science/Engineering</td>
<td>PHY 2053C College Physics I</td>
<td>4 hrs</td>
</tr>
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</table>

#### 2. Common Program Prerequisites

**23 hrs**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Humanities</td>
<td>ARH 2050 The History of Art I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>MAC 1114 College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Science/History</td>
<td>AMH 2020 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 3. Education Pre-Professional Requirements

**3 hrs**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Humanities</td>
<td>ARH 2050 The History of Art I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>MAC 1114 College Algebra</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 4. Education Core Requirements

**15 hrs**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Humanities</td>
<td>ARH 2050 The History of Art I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>MAC 1114 College Algebra</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 5. Internship I Block

**7 hrs**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Humanities</td>
<td>ARH 2050 The History of Art I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>MAC 1114 College Algebra</td>
<td>3 hrs</td>
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</tbody>
</table>

#### 6. Specialization Requirements

**27 hrs**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural-Historical Foundations</td>
<td>AMH 2010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 7. Restricted Electives

One 3000- or 4000-level CHM, or BCH course with advisor's approval

#### 8. Internship II (ESE 4943)

**12 hrs**

- SCE 4360 and at least 80% of all required chemistry courses must be completed before doing Internship II  
- See additional requirements under College of Education, Office of Clinical Experiences  
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

#### 9. Foreign Language Requirements

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

#### 10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.  
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.  
- Pass all applicable sections of the Florida Teacher Certification Examination.

#### 11. University Minimum Exit Requirements

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

**Total Semester Hours Required:** 127 hours
UCF Degree Programs

PHI 2010 Introduction to Philosophy 3 hrs

C. Mathematical Foundations (6 hrs)
MAC 1105 College Algebra 3 hrs

Select one:
STA 1060C Basic Statistics using MS Excel or
STA 2014C Principles of Statistics 3 hrs

D. Social Foundations (6 hrs)
POS 2041 American National Government 3 hrs

PSY 2012 General Psychology 3 hrs

E. Science Foundations (6 hrs)
PHY 2048 Physics for Engineers & Scientists I 3 hrs

Select one:
AST 2002 Astronomy or
GEO 1200 Physical Geography or
GLY 1030 Geology and its Applications 3 hrs

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (21 hrs)
A. Communications (9 hrs)
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP

SPC 1600 Fundamentals of Oral Communication GEP

B. Humanities (6 hrs)
PHY 2010 Introduction to Philosophy GEP

Select one:
ARH 2030 The History of Art I or
ARH 2051 The History of Art II or
MUL 2010 Enjoyment of Music or
THE 2900 Theatre Survey or

FIL 2400 History of Motion Pictures

C. Mathematics (10 hrs)
MAC 1105 College Algebra GEP

MAC 2311 Calculus with Analytic Geometry I GEP

One of the following (per GEP)

STA 1060C Basic Statistics using MS Excel or
STA 2014C Principles of Statistics

D. Social Sciences/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

E. Science (11 hrs + lab)

PHY 2048 Physics for Engineers & Scientists I GEP

PHY 2048L Physics Lab for Eng. & Scientists I 1 hr

One of the following (per GEP)

AST 2002 Astronomy or
GEO 1200 Physical Geography or
GLY 1030 Geology and its Applications

F. Education Courses (9 hrs)
EDF 2005 Introduction to Education 3 hrs

EDG 2701 Teaching Diverse Populations 3 hrs

EME 2040 Technology for Educators 3 hrs

G. Diversity Courses GEP

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

LAE 4361 Literacy Strategies for Mid/High School 3 hrs

4. Internship I Block (7 hrs)

SCE 3960 Science Instructional Analysis 4 hrs

ESE 3940 Internship I 3 hrs

At least 50% of all required physics courses must be completed before doing Internship I

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

5. Specialization Requirements (26 hrs)

BSC 2010C General Biology GEP

CHM 2040C Chemistry Fundamentals I 4 hrs

CHM 2046 Chemistry Fundamentals II 3 hrs

CHM 2046L Chemistry Fundamentals Lab 1 hr

MAC 2311 Calculus w/Analytic Geometry I GEP

MAC 2312 Calculus w/Analytic Geometry II 4 hrs

MAC 2313 Calculus w/Analytic Geometry III 4 hrs

PHY 2048 Physics for Scientists I GEP

PHY 2048L Physics Lab for Engineers & Scientists I 1 hr

PHY 2049 Physics for Scientists II 3 hrs

PHY 2049L Physics Lab for Engineers & Scientists II 1 hr

PHY 3101 Physics for Engineers & Scientists III 3 hrs

PHY 3752C Physics of Scientific Instruments 3 hrs

6. Restricted Electives (8 hrs)

PHY 3102L Physics Lab for Engineers & Scientists II Lab 1 hr

PHY 3123L Physics Lab for Engineers & Scientists III Lab 1 hr

PHY 3133L Physics Lab for Engineers & Scientists IV Lab 3 hrs

PHY 3143L Physics Lab for Engineers & Scientists V Lab 3 hrs

7. Internship II (ESE 4943) (12 hrs)

SCE 4360 and at least 80% of all required physics courses must be completed before doing Internship II

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

Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

8. Foreign Language Requirements (0-8 hrs)

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

9. Departmental Exit Requirements

Achieve a minimum 2.5 GPA in all courses within the major.

Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

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

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

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

Total Semester Hours Required 125 hours

SOCIAL SCIENCES (B.S.)

College of Arts and Sciences

Degree Requirements

Admission Requirements none

Students who change degree programs and select this major must adopt the most current catalog.

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 choosing a major.

Co-op and internship credit cannot be used in this major

The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships among those fields.

Satisfactory completion of the program leads to the degree Bachelor of Science with a major in Social Sciences.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences.
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra (or higher) 3 hrs
      Select STA 2023 Statistical Methods I 3 hrs
   D. Social Foundations
      Select ECO 2013 or POS 2041, depending on concentration to be followed 3 hrs
      Select PSY 2012 or SYG 2000, depending on concentration to be followed 3 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (6 hrs)
   Select no more than two lower level Social Science courses depending on disciplines selected. *Asterisk indicates appropriate courses.

3. Core requirements (3 hrs)
   Select one course
   - POS 3703 Scope and Methods of Political Science
   - PSY 3214C Research Methods in Psychology
   - SYA 4300C Research Methods (Sociology)

4. Restricted Electives (60 hrs)
   Select a minimum of 15 semester hours in each of four Social Science disciplines.
   Communication
   - COM 3531 Communication Research Methods 3 hrs
   - Select one course
     - RTV 3000 Foundations of Broadcasting
     - RTV 4403 Radio, Television and Society
     - JOU 3004 History of American Journalism
   Economics
   - *ECO 2013 Macroeconomics 3 hrs
   - *ECO 2023 Microeconomics 3 hrs
   - Select three more Economics courses 9 hrs
   Political Science
   - *POS 2041 American National Government 3 hrs
   - Select four more Political Science courses 12 hrs
   Psychology
   - *PSY 2012 General Psychology 3 hrs
   - PPE 3003 Personality Theory 3 hrs
   - Select three more Psychology courses 9 hrs
   Public Affairs
   - Select one course
     - CCJ 2024 Criminal Justice System
     - PLA 3013 Law and the Legal System
     - PAD 3003 Introduction to Public Administration 4 hrs
     - Additional 7 hours of Public Affairs courses 7 hrs
   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 Foreign Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement (see a Liberal Studies advisor).

7. Electives (variable)
   Select primarily from upper level courses, with a Liberal Studies advisor's approval.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency 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: Liberal Studies, Liberal Arts
   Related Minors: Anthropology, Communication, Economics, Political Science, Psychology, Public Administration, Sociology
   Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses
   - Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.
   - Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
     - Any two introductory Social Sciences courses could meet admission requirements. However, the indicated courses are prerequisites for subsequent courses and must be taken.

   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 four parts of the 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. Historical Foundations (3 hrs)
         - MGF 1106 Finite Mathematics 3 hrs
         - Select one:
           - STA 1060C Basic Statistics using MS Excel
           - STA 2044C 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
           - BSC 1005 Biological Principles
      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
         - SPC 1600 Fundamentals of Oral Communication 3 hrs
      B. Humanities
         - PHI 2010 Introduction to Philosophy 3 hrs
         - Select one:
           - ARH 2503 The History of Art I
           - ARH 2504 The History of Art II
           - MUL 2200 Enjoyment of Music
           - THE 2000 Theatre Survey
           - FIL 2400 History of Motion Pictures
      C. Mathematics
         - Select one:
           - MGF 1106 Finite Mathematics 3 hrs
           - STA 1060C Basic Statistics using MS Excel 3 hrs
           - STA 2044C Principles of Statistics 3 hrs
## UCF Degree Programs

**SSE 4361** and at least 80% of all social science courses must be completed in residence at UCF.

### 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 11 hours of Summer credit (if applicable)

### Semester Hours Required
122 hours

### SOCIAL WORK (B.S.W.)
**College of Health and Public Affairs**
HPAL 204, 407-823-2114
http://www.cohpa.ucf.edu/social/

#### Admission Requirements - Limited Access
Acceptance to the University does not necessarily constitute admission to the upper division social work program. Separate application to the limited access program must be made to the School of Social Work. Students are admitted to the undergraduate program only in the Summer or Fall terms. To be considered for admission to the program, students must have:

- Admission to the University
- A 2.5 overall GPA
- An AA (from a Florida State Community College) or UCF General Education Program, Gordon Rule, and CLAST
- 15 semester hours common program prerequisites (see Section 2 below for list of courses)

This limited access program is work-intensive. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

Personal qualifications reviewed for acceptance include intelligence, initiative, social concern, appreciation for human diversity, dependability, humanitarian interests in helping people and in improving human services as well as college-level reading and writing skills.

### Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Social Work
- Students should complete the General Education Program, the CLAST and the Common Program Prerequisite Requirements before beginning the Social Work Program
- Students should consult with a school advisor.
- The courses designated in sections 1 (general education) and 2 (common program prerequisites) below may be taken at a college or university other than UCF, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 is required in all Social Work courses with at least a grade of "C" in each course.
- Students must earn an overall GPA of 2.5 for entry into field education (SOW 4510) and graduation from the Social Work Program
- Students must complete all the requirements listed in 1-11 below

#### 1. UCF General Education Program (36 hrs)
- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
- Select MGF 1106 Finite Math
- Select STA 2014C-Principles of Statistics or STA 2023 Statistical Methods I

### 2. Cultural Historical Foundations (9 hrs)

#### A. Communication Foundations (6 hrs)
- Communication Studies 1007 Introduction to Speech Communication 3 hrs
- Communication Studies 1009 Introduction to Public Speaking 3 hrs

#### B. Cultural Historical Foundations (3 hrs)
- Select one: 3 hrs
- African American Studies 2002 African American Literature 3 hrs
- Arts and Humanities 3100 History of the中华文化, 3 hrs
- LAH, AFH, or ASH prefix courses

### 3. Education Core Requirements (15 hrs)
- EDG 4323 Professional Teaching Practices 3 hrs
- EFD 4003 Analysis of Critical Issues in Education 3 hrs
- EFD 4214 Classroom Learning Principles 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
- Select one: 3 hrs
- EDF 2005 Introduction to Education 3 hrs
- EGD 2701 Teaching Diverse Populations 3 hrs
- EME 2040 Technology for Educators 3 hrs
- LAE 3461 Literacy Strategies for Mid/High School 3 hrs

### 4. Internship I Block (7 hrs)
- SSE 4361 Social Science Instructional Analysis 4 hrs
- ESE 3940 Internship I 3 hrs
- At least 50% of all required social science courses must be completed before doing Internship I.
- SSE 3940 should be taken concurrently with ESE 3940.
- See additional requirements listed under College of Education, Office of Clinical Experiences.

### 5. Specialization Requirements (27 hrs)
- EUH 2000 Western Civilization I 3 hrs
- EUH 2001 Western Civilization II 3 hrs
- AMH 2010 US History 1492-1877 3 hrs
- AMH 2020 U.S. History 1877-Present 3 hrs
- SYG 2000 General Sociology 3 hrs
- ECO 2013 Macroeconomics 3 hrs
- Select one: 3 hrs
- ECO 2032 Microeconomics 3 hrs
- Select one: 3 hrs
- ECO 3470 World Political Geography 3 hrs
- Upper Division Non-Western History Elective: 3 hrs
- LAH, AFH, or ASH prefix courses
- Upper Division Political Science Electives 6 hrs
- Upper Division American History Electives 6 hrs

### 6. Internship II (ESE 4943) (12 hrs)
- SSE 4361 and at least 80% of all social science courses must be completed before doing Internship II.
- See additional requirements under College of Education, Office of Clinical Experiences.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065.

### 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.)
D. Social Foundations 6 hrs
Select PSY 2012 and POS 2041

E. Science Foundations 6 hrs
Select BSC 1005 or MCB 1310
Select a listed science course

2. Common Program Prerequisites* (15 hrs)

** POS 2041 American Government GEP
BSC 1005 Biology GEP
ECO 2013 or Microeconomics or 3 hrs
ECO 2023 Macroeconomics
PSY 2012 Psychology GEP
SYG 2000 Sociology 3 hrs

*See transfer notes

3. Core Requirements (45 hrs)

- SOW 3104 Assessing I: Human Development 3 hrs
- SOW 3203 Social Welfare and Community Resources 3 hrs
- SOW 3300 Practice I: Generalist Practice in Social Work 3 hrs
- SOW 3311 Assessing II: Human Systems 3 hrs
- SOW 3352 Practice II: Interpersonal Skills in Social Work Practice 3 hrs
- SOW 3401 Social Work Research 3 hrs
- SOW 3420 Social Work with Minorities 3 hrs
- SOW 4431 Evaluating Social Work Practice and Service Programs 3 hrs
- SOW 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, HUM 3401, HUM 3417, HUM 3419, JST 3401, JST 3402, JST 3820, LAH 3130, LAH 3200, LAH 3400, LAH 3470, AMH 3561, AMH 3571, AMH 3586, ANT 3302, ANT 3311, ANT 3313, SOP 3724, SOP 3742, SPA 3621, SYD 3700, 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 certificate and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Addictions Certificate: The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions.

The certificate program will enable students to earn credit toward 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 COHPA1 interdisciplinary Honor course.
2. Complete a three-credit thesis course.
3. Earn a 3.5 GPA in your Social Work major.
4. Earn a cumulative 3.2 GPA in your total UCF courses.
5. Complete 60 hours of college credit, including 12 upper division hours at UCF.

Transfer Notes:

Community College Equivalent courses for prerequisites: any course in the following areas (3 hrs each)

American Government or American National Government Biology (Human Biology or Anatomy and Physiology)
Economics (Microeconomics or Macroeconomics)
Introductory Psychology
Introductory Sociology
Principles of Statistics

Tentative Course Schedule for Entering Freshmen

Freshman Year*

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
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<tr>
<td>Fall</td>
<td>ENC 1101</td>
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<tr>
<td></td>
<td>MCB 1310</td>
<td>3</td>
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<tr>
<td></td>
<td>SYG 2000</td>
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<td>Spring</td>
<td>ENC 1102</td>
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<td></td>
<td>BSC 1005</td>
<td>3</td>
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<td></td>
<td>PSY 2012</td>
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<td></td>
<td>STA 2041</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>SYG 2000</td>
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<td></td>
<td>POS 2012</td>
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Sophomore Year

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<td>ECO 2013</td>
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<td></td>
<td>ECO 2023</td>
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<tr>
<td></td>
<td>EUH 2000</td>
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<tr>
<td></td>
<td>WOH 2012</td>
<td>3</td>
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<tr>
<td></td>
<td>HUM 2211</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AMH 2010</td>
<td>3</td>
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<td></td>
<td>SPC 1600</td>
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<td>Foreign Lang II or Cult Diversity</td>
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<tr>
<td></td>
<td>HUM 2230</td>
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<td>AMH 2020</td>
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<td></td>
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Junior Year

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<td>SOW 3203</td>
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</tr>
<tr>
<td></td>
<td>SOW 3300</td>
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<td></td>
<td>STA 2041</td>
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<td>Elective</td>
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<tr>
<td></td>
<td>STA 2041</td>
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<td>Spring</td>
<td>SOW 3111</td>
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<tr>
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<td>SOW 3252</td>
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<td>SOW 3401</td>
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<tr>
<td></td>
<td>SOW 3420</td>
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</tr>
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<td>Elective</td>
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</tbody>
</table>

UCF Degree Programs

219
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**
- none

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology 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.
- Arrangements for Internships are coordinated by the Department.
- Eligible students may enroll for three to 16 semester hours of Internship in SYA 3940, SYA 4941, or SYA 5944.
- Students will be required to take a standard exit exam.
- Co-op credit cannot be used in this major.
- A minimum GPA of 2.0 in all courses used for the major.
- A minimum of "C" (2.0) in all core courses.
- Computer Competency met by SYA 4450.
- Students must adopt the most current catalog.

**Curriculum**

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
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<td>SOW 4232</td>
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<td>SOW 4341</td>
<td>3</td>
<td>SOW 4522</td>
<td>3</td>
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<td>SOW 4343</td>
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<td>SOW 4431</td>
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<td>Elective</td>
<td>3</td>
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<tr>
<td>SOW 4431</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**
- 3

**SOCIOLGY (B.A.)**

**College of Arts and Sciences**

**Department of Sociology and Anthropology, PH 403 407-823-2227**

*http://www.cas.ucf.edu/soc_anthro/firstpage.html*

E-mail: sociology@ucf.edu

J. Corzine, 407-823-2227

The Sociology curriculum emphasizes critical examination of various components of society. The purpose of the curriculum is to increase students’ social awareness and their ability to employ a sociological perspective to interpret social institutions and behavior.

**Admission Requirements**
- none

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology 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 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

**1. UCF General Education Program**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>Select MAC 1105 College Algebra (or higher)</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select STA 2014C Principles of Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one: ECO 2023, ECO 2023, POS 2041</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select SY 2000 General Sociology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

**2. Common Program Prerequisites**

- none

(It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

**3. Core requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Select one course</td>
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<tr>
<td>SYG 2000 General Sociology</td>
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<td>SYG 2010 Social Problems</td>
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<tr>
<td>SYA 4300C Research Methods</td>
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<tr>
<td>SYA 4300 Research Methods and Statistics</td>
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<tr>
<td>SYA 4450 Data Analysis</td>
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<tr>
<td>SYA 3110 Development of Social Thought</td>
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**4. Restricted Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Select eight courses from the following</td>
<td></td>
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<tr>
<td>SYA 3120 Modern Sociological Thought</td>
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<tr>
<td>SYA 4650C Applied Sociology</td>
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<td>SYA 5625 Proseminar</td>
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<td>SYA 5937 Advanced Population</td>
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<td>SYD 3410 Urban Sociology</td>
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<td>SYD 3700 Race &amp; Ethnic Minorities in the US</td>
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<tr>
<td>SYD 3800 Sex Roles in Modern Society</td>
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<td>SYO 4020 Population</td>
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<td>SYG 2000 General Sociology</td>
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<td>SYG 2010 Social Problems</td>
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<tr>
<td>SYO 3000 Modern Sociology</td>
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<tr>
<td>SYO 3360 Social Organization &amp; Human Relations</td>
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<tr>
<td>SYO 3410 Sociology of Mental Illness</td>
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<td>SYO 3530 Social Stratification</td>
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<td>SYO 4100 Family Trends</td>
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<td>SYO 4200 Sociology of Religion</td>
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<tr>
<td>SYO 4250 Sociology of Education</td>
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</tr>
</tbody>
</table>

**5. Departmental Exit Requirements**

- A minimum GPA of 2.0 in all courses used for the major.
- A minimum of “C” (2.0) in all core courses.
- Computer Competency met by SYA 4450.
- Students will be required to take a standard exit exam.

**6. Foreign Language Requirements**

(0-8 hrs)

**Admission:** Met by graduation requirement.

**Graduation:** 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, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**Total Semester Hours Required**

120 hours

**Related Programs:** Anthropology, Criminal Justice

**Related Minors:** African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Canadian Studies, Judaic Studies, Latin American Studies, Russian Area Studies, Sociology, and Women’s Studies

**Transfer Notes:**
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
Spanish literature beyond the survey level 6 hrs

Select one of the following 3 hrs

4. Upper Division Restricted Electives (21 hrs)

Select one of the following 3 hrs

- SPW 3130 & 3131 Survey of Latin-American Literature
- SPW 3100 & 3101 Survey of Spanish Literature

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division Spanish courses.
- Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)

Admission: Met by Graduation requirements.

Graduation: Met by Common Program Prerequisites.

7. Electives (variable)

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

8. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hours

Related Programs: French, Foreign Language Combination
Related Minors: French, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.
- Native speakers, or students who have received advanced education in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.

SPORTS AND FITNESS (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~sportfit/

Program Coordinator: Dr. Debby Mitchell
ED 320-Q, 407-823-6598
E-mail: mitchell@mail.ucf.edu

Admission Requirements

- Complete the University General Education Requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university; or the AS degree from the affiliated program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST alternative criteria.
- Pass four parts of the CLAST examination.
- Complete prerequisite courses.

Degree Requirements

- Students should consult with an advisor on a regular basis.
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.
### UCF Degree Programs

- 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, students must have achieved admission into one of the areas of specialization listed and described below.
- Students must meet with their advisor prior to enrollment in Sports and Fitness Practicum I and Practicum II to complete departmental approval process of the organization with which they will be working.

### 1. UCF General Education Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>(9 hrs)</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Comm</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural-Historical Foundations</td>
<td>(9 hrs)</td>
</tr>
<tr>
<td>AMH 2010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AMH 2020 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>MGF 1105 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C Basic Stat using Microsoft Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>POS 2041 American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSY 2012 General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BSC 2010C General Biology</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 2. Sports and Fitness Lower Division

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 2022G Human Injuries</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ZOO 3736C Exercise Physiology Anatomy</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 3. Lower Division Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected Electives (Prefixes: PEL, PEM, PEO, PET)</td>
<td>(7 hours)</td>
</tr>
</tbody>
</table>

### 4. Physical Education Common Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 4312 Biomechanics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4550 Fitness Assessment and Exercise</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4401 Administration &amp; Evaluation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 5. Fitness & Sports Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3137 Concepts and Practices in Sports and Fitness</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 3793 Sports and Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 3408 Public Relations in Sports and Fitness</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 3462 Fiscal and Facilities Issues in Sports and Fitness</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4491 Legal Issues in Sports and Fitness</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4215 Motivational Aspects of Athletic Performance</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 6. Specialization

#### Select One Option:

**Option A: Coaching**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3765 Coaching</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4763 Coaching Methods and Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>Coaching Specific (choose one)</strong></td>
<td>(3 hrs)</td>
</tr>
<tr>
<td>PEO 2634 Coaching Basketball</td>
<td></td>
</tr>
<tr>
<td>PEO 3324 Coaching Volleyball</td>
<td></td>
</tr>
<tr>
<td>PEO 3644 Coaching Football</td>
<td></td>
</tr>
<tr>
<td>PET 4625 Human Injuries - Mechanisms and Prevention</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3361 Nutrition for Sports and Fitness</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 3776 Fitness and Conditioning Concepts</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4083C Practical Fitness Training</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4625 Human Injuries - Mechanisms and Prevention</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Students selecting the Fitness Specialization must register for a Professional Fitness Certification through the American Council on Exercise (ACE) or an equivalent professional certifying body.

### 7. Upper Division Elective

Approved by advisor

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 4926 Sports and Fitness Practicum I</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

### 8. Sports & Fitness Practicums

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 4925 Sports and Fitness Practicum II</td>
<td></td>
</tr>
</tbody>
</table>

During the final year of the program, students will complete Practicum requirements with a Sports or Fitness organization. These experiences will provide the student with actual professional experiences and practical hands-on knowledge of the career in which they have chosen to work. The design of Practicum I will be that of an observational and analytical role. During Practicum II, the student will be given responsibilities and assignments through the organization in which they have been placed and will carry an active role in the operation of the organization.

In both Practicum I and Practicum II, the student will be working directly with a Placement Coordinator in the organization and their University Supervisor. The University Supervisor will maintain periodic contact with the Placement Coordinator to check performance status. The Sports and Fitness program has developed tremendous opportunities through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organizations. Students will have the option to arrange their own practicum experience if they so choose. In either case, before enrolling in either Practicum I or Practicum II, students must meet with their advisor to provide organization contact information and gain Practicum Placement Approval.

The students will be instructed that they will be representing not only themselves while on site during their Practicum experiences, but also the University of Central Florida and the Sports and Fitness Program. Professionalism in manner, dress and job performance will be expected at all times. Should there be any question of the performance of the student during their practicum experience, they will be required to meet with their University Supervisor and their Faculty Advisor for a performance evaluation before returning to the Practicum site. The performance concerns will be addressed and a plan of action will be developed. If the problems persist and the situation warrants, the student may be removed from their Practicum experience.

### 9. Foreign Language

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

### 10. Exit Requirements

- A minimum overall GPA of 2.5.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event
- Successful completion of 18 hours of Practicum Experiences.

**Total Semester Hours Required (120 hours)**

### College of Arts and Sciences

**Department of Statistics, CC II 222, 407-823-2289**

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

E-mail: statistics@ucf.edu

L. Hoffman, 407-823-5525

**Admission Requirements**

- none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a "C" (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (39 hrs)
   A. Communication Foundations
      STA 4102 Computer Process of Stat Data 3 hrs
      MAC 2311 Calculus I GEP
      MAC 2312 Calculus II 4 hrs
      BSC 2010C General Biology GEP
   *See Transfer Notes for possible substitutes

2. Common Program Prerequisites (7 hrs)
   COP 3502C Computer Science I 3 hrs
   MAC 2311 Calculus I GEP
   MAC 2312 Calculus II 4 hrs
   BSC 2010C General Biology GEP

3. Core requirements (51 hrs)
   STA 2023 Statistical Methods I 3 hrs
   STA 4102 Computer Process of Stat Data 3 hrs
   STA 4165 Statistical Methods II with Computer 3 hrs
   STA 4164 Statistical Methods III 3 hrs
   STA 4321 Statistical Theory I 3 hrs
   STA 4322 Statistical Theory II 3 hrs
   COT 4500 Numerical Calculus 3 hrs
   MAC 2313 Calculus with Analytic Geo III 4 hrs
   ENC 3241 Technical Report Writing 3 hrs
   COP 3502C C Language* 3 hrs
   *may substitute an approved programming language course

Select one course
   MAS 3106 Linear Algebra 4 hrs
   MAS 3105 Elementary Linear and Matrix Algebra
   Select one course
   COT 3100C Introduction to Discrete Structure 3 hrs
   MHF 3302 Logic and Proof in Mathematics
   Select three from among the following:
      STA 3096 Statistical Graphics 9 hrs
      STA 4173 Biostatistical Methods 3 hrs
      STA 4222 Sample Survey Methods 3 hrs
      STA 4502 Nonparametric Stat Methods 3 hrs
      STA 4664 Statistical Quality Control 3 hrs
      STA 4852 Applied Time Series 3 hrs
   Select two courses and associated labs (incl. 4 hrs GEP) 4 hrs
   BSC 2011C Biological Diversity
   CHM 2046L Chemistry Fundamentals I
   CHM 2046 & L Chemistry Fundamentals II
   PHY 2053C College Physics I
   PHY 2053C College Physics II
   Select one course
   MAC 2313 Calculus with Analytic Geo III 4 hrs
   SPC 1600 Fundamentals of Oral Communication 3 hrs
   May substitute an approved programming language course

4. Restricted Electives (6 hrs)
   Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses
   Select courses in engineering or business may be used but must first be approved by the Statistics Department
   MAC 2233, 2253, 2254; all MAE courses; and MIF 4404 may not be used

5. Departmental Exit Requirements
   Earn a grade of “C” (2.0) or better in each STA course
   Computer Competency met by STA 4102

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

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

8. University Minimum Exit Requirements

UCF Degree Programs

A 2.0 UCF GPA
60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed (Note: Statistics majors may count MAC 2313 as upper division credit.)
30 of the last 36 hours of course work must be completed in residency at UCF
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Mathematics, Mathematics Education, Actuarial Science Track
Related Minors: Statistics, Mathematics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
COP 3502C: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
BSC 2010C: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

STATISTICS - ACTUARIAL SCIENCE TRACK (B.S.)
See Actuarial Science (B.S.)

TECHNICAL EDUCATION AND INDUSTRY TRAINING (B.S.)

College of Education
Department of Teaching and Learning Principles
ED 209
http://reach.ucf.edu/~voced/
Program Coordinator: Dr. Larry Hudson
ED 122-T, 407-823-2848
E-mail: lhudson@mail.ucf.edu

This program is only available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://dis-trib.ucf.edu/home.

Admission Requirements
Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
Have a minimum 2.5 overall GPA
Meet the University CLAST or CLAST alternative criteria (Track 1)
Pass four parts of the CLAST examination (Track 2)
Complete prerequisite courses

Degree Requirements
Students should see an advisor

Track 1: For students in non-state-certified Technical Education and Industry Training

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 (9 hrs)
   C. Mathematical Foundations
      MAC 2311 Calculus I GEP
      MAC 2312 Calculus II 4 hrs
      BSC 2010C General Biology GEP
   D. Social Foundations
      STA 4102 Computer Process of Stat Data 3 hrs
   E. Science Foundations
      Select one course
      MAS 3106 Linear Algebra 4 hrs
      MAS 3105 Elementary Linear and Matrix Algebra
      Select one course
      PHY 2053C College Physics I 3 hrs
      PHY 2053C College Physics II
      Select one course
      CHM 2046L Chemistry Fundamentals I
      CHM 2046 & L Chemistry Fundamentals II
      PHY 2053C College Physics I
      PHY 2053C College Physics II
C. Mathematical Foundations  (6 hrs)
  MGF 1106 Finite Mathematics  3 hrs
  Select one:
  STA 1060C Basic Statistics using MS Excel or
  STA 2014C Principles of Statistics

D. Social Foundations  (6 hrs)
  STA 1060C Principles of Statistics
  STA 2014C Principles of Statistics

E. Science Foundations  (6 hrs)
  STA 2014C Principles of Statistics

2. Common Program Prerequisites  (9 hrs)
  EDF 2005 Introduction to Education  3 hrs
  EDG 2701 Teaching Diverse Populations  3 hrs
  EME 2040 Technology for Educators  3 hrs

3. Program Core Requirements  (27 hours)
  ETV 3365 Gen Method/Test Eval  3 hrs
  ETV 3062 Professional Role Voc Ed Teacher  3 hrs
  ETV 3312 Course Const Health Occ Ed or
  ETV 3371 Course Const Industrial Ed
  ETV 3502 Special Vocs Voc Ed Students  3 hrs
  ETV 4065 PrinCprac Voc Ed  3 hrs
  ETV 4368 Adv Teaching/Techniques in Voc Ed  3 hrs
  ETV 3367 Eval Vocation Training  3 hrs
  ETV 4169 Curr Dev of Ind Training  3 hrs
  ADE 4382 Teaching Adult Learners  3 hrs

4. Occupational Specialization Requirements  (30 hrs)
  Students must complete an area of specialization through one of the
  following routes:
  - Occupation-specific courses
  - Recognized occupational license/registration/certification
  - Occupational examination
  - Sufficient documentation demonstrating comparable occupation-
    nal expertise equivalent to 30 semester hours of credit.
    Appropriate documentation must be provided to advisor before
    this will be submitted for credit.

5. Upper Division Electives  (6 hrs)
  (with advisor's approval)

6. Directed Field Experience  (12 hrs)
  The Occupational Specialization must be satisfied and all cours-
  es must be completed prior to registering, through your advisor,
  for the Directed Field Experience.

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

6. Departmental Exit Requirements
  - Achieve a minimum 2.5 GPA in all courses within the major.

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

8. Total Semester Hours Required  120 hours

Track 2: For students seeking state level teacher certification in
Business Education (6-12) from the Florida Department of Education

1. UCF General Education Program  (36 hrs)
   A. Communication Foundations  (9 hrs)
   ENC 1101 Composition I  3 hrs
   ENC 1102 Composition II  3 hrs
   SPA 1000 Fundamentals of Oral Communication  3 hrs
   B. Cultural-Historical Foundations  (9 hrs)
   AMH 2040 U.S. History 1492-1877  3 hrs
   AMH 2040 U.S. History 1877-1914  3 hrs
   PHI 2010 Introduction to Philosophy  3 hrs
   C. Mathematical Foundations  (6 hrs)
   MGF 1106 Finite Mathematics  3 hrs
   Select one:
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
   D. Social Foundations  (6 hrs)
   STA 1060C Principles of Statistics
   STA 2014C Principles of Statistics

2. Common Program Prerequisites  (31 hrs)
   A. Communications  (9 hrs)
   ENC 1101 Composition I  3 hrs
   ENC 1102 Composition II  3 hrs
   ENC 2107 Communications  3 hrs
   B. Humanities  (6 hrs)
   PHI 2010 Introduction to Philosophy  3 hrs
   PHI 2010 Philosophy of Art  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
   MUL 2010 Enjoyment of Music
   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  3 hrs
   Select one:
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
   D. Social Science/History  (12 hrs)
   AMH 2040 U.S. History 1492-1877  3 hrs
   AMH 2040 U.S. History 1877-1914  3 hrs
   ECO 2012 Macroeconomics  3 hrs
   ECO 2013 Microeconomics or
   Select one:
   PSY 2012 General Psychology
   E. Science  (9 hrs + lab)
   PSC 1121 Physical Science  3 hrs
   Select one:
   One of the following (per GEP)  3 hrs
   AST 2002 Astronomy
   GEO 1200 Physical Geography
   GLY 1030 Geology and Its Applications
   Select one associated science lab:
   1 hr
   BSC 1005L Biological Principles Laboratory
   BSC 1200L Physical Science Laboratory
   GEO 1200L Physical Geography Laboratory
   PSC 1121L Physical Science Laboratory
   F. Education Courses  (9 hrs)
   EDF 2005 Introduction to Education  3 hrs
   EDF 2701 Teaching Diverse Populations  3 hrs
   EME 2040 Technology for Educators  3 hrs
   G. Diversity Courses  GEP
   H. Other Program Prerequisites  (15 hrs)
   ACG 2023 Principles of Accounting  1 & II  3 hrs
   ECO 2012 Microeconomics  3 hrs
   ECO 2013 Macroeconomics  3 hrs
   Select one:
   Elective in Business Administration (see advisor)  3 hrs

3. Education Core Requirements  (12 hrs)
   EDF 4203 Analysis of Critical Issues in Education  3 hrs
   EDF 4214 Classroom Learning Principles  3 hrs
   TSL 4080 Theory and Practice of Teaching ESOL  3 hrs
   Select one:
   Students in Schools
   LAE 4361 Literacy Strategies for Middle and High School  3 hrs

4. Program Core Requirements  (21 hrs)
   ETV 3365 Gen Method/Test Eval  3 hrs
   ETV 3062 Professional Role Voc Ed Teacher  3 hrs
   BTE 4410 Course Construction in Business Ed  3 hrs
   EVT 3365 Adv Teaching/Techniques in Voc Ed Students  3 hrs
   EVT 4065 PrinCprac Voc Ed  3 hrs
   EVT 4368 Adv Teaching/Techniques in Voc Ed  3 hrs
   EVT 3367 Eval Vocation Training  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
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 127 hours

THEATRE (B.A.)
College of Arts and Sciences
Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu
E-mail: theatre@ucf.edu
Kristina Tollefon, 407-823-0233

The Bachelor of Arts Degree is offered for students who plan to pursue a profession other than actor, designer, stage manager or director. BA students may be interested in a Liberal Arts education or may eventually choose to pursue graduate studies in theatre. BA students are encouraged to pursue a minor or a second major.

Admission Requirements
- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition and portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu.

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 or internship credit cannot be used in this major.
- Students must consult with a departmental advisor before registering each semester.
- 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, on 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 as a major.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
   - Select SPC 1600 Fund Oral Communication 3 hrs
   - Select two semesters of English Composition 6 hrs
B. Cultural and Historical Foundations 9 hrs
   - Select one two semester sequence 6 hrs
   - Select THE 2000 Survey of Theatre 3 hrs
C. Mathematical Foundations 6 hrs
   - Select MGF 1106 Finite Mathematics 3 hrs
   (may substitute a higher level math)
   - Select CGS 1060C Intro to Computer Sci or CGS 2100C Computer Fund for Business 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (12 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 2020</td>
<td>Survey of Theatre for majors</td>
<td>GEP</td>
</tr>
<tr>
<td>THE 5375</td>
<td>Dramatic Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 2090</td>
<td>Theatre Production/Perform I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2280</td>
<td>Theatre Production/Perform I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2210</td>
<td>Stagecraft I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 2190</td>
<td>Theatre Production/Perform I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPP 2110</td>
<td>Acting I - Introduction</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

*See Transfer Notes for possible substitutes

3. Core requirements (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 3110</td>
<td>Theatre History I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 3111</td>
<td>Theatre History II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 3303</td>
<td>Play Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 5396</td>
<td>Dramatic Literature II</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

4. Restricted Electives (16 hrs)

Select 16 hours from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 5230</td>
<td>Cultural Diversity - Theatre</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 3240</td>
<td>Musical Theatre Survey</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 5307</td>
<td>Contemporary Theatre Practice</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 4372</td>
<td>Drama of Tennessee Williams</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 4093</td>
<td>Theatre Production/Perform IV</td>
<td>1 hr</td>
</tr>
<tr>
<td>THE 4094</td>
<td>Theatre Production/Perform V</td>
<td>1 hr</td>
</tr>
<tr>
<td>THE 4096</td>
<td>Theatre Production/Perform VI</td>
<td>1 hr</td>
</tr>
<tr>
<td>THE 4097</td>
<td>Theatre Production/Perform VII</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 3043C</td>
<td>Costume History I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3197</td>
<td>Summer Theatre Studio/Tech/Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3195</td>
<td>Theatre Studio/Tech/Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3044C</td>
<td>Costume History II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3197</td>
<td>Summer Theatre/Performance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3952</td>
<td>Studio Performance</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Upper division independent study 1-8 hrs

(requires departmental approval in advance)

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 computer science course

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.

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
THEATRE (B.F.A.)
College of Arts and Sciences
Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu
E-mail: theatre@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 performance, stage management, or design/tech. The BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements
- Entrance into most theatre classes is restricted to majors.
- Exceptions must be approved by the Department Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- A performance candidate must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes.
- Design/Tech and stage management track requires an interview and portfolio review.
- The portfolio should contain no more than fifteen examples of the student’s best work representing a variety of mediums. Three-dimensional pieces 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 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.

UCF Degree Programs
Related Programs: Art, Film, Music, Theatre BFA
Related Minors: Art, Music, Film

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
- THE 3305: may use THE 2300
- THE 2090: may use THE 2825
- TPA 2290: may use TPA 1290
- TPP 2190: may use TPP 1190
- TPP 2110: may use TPP 2210 or THE 2271
- TPA 2210: may use THE 2261

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select SPC 1600 Fund Oral Communication 3 hrs
      Select two semesters of English Composition 6 hrs
   B. Cultural and Historical Foundations
      Select one 2 semester sequence 6 hrs
      Select THE 2020 Survey of Theatre 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
      Prefer CGS 1000C Intro to Computer Sci or CGS 2100C Computer Fund for Business 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (12 hrs)
   THE 2020* Survey of Theatre for majors GEP
   THE 3305* Dramatic Literature I 3 hrs
   THE 2090* Theatre Production/Performance I 1 hr
   TPA 2290* Theatre Production/Performance I 1 hr
   THE 2210* Stagecraft I 3 hrs
   TPP 2190* Theatre Production/Performance I 1 hr
   TPP 2110* Acting I - introduction 3 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)
   TPA 2211 Stagecraft II 3 hrs
   TPP 3650 Script Analysis 3 hrs
   THE 3306 Dramatic Literature II 3 hrs
   THE 3110 Theatre History I 3 hrs
   THE 3111 Theatre History II 3 hrs
   TPP 3310C Directing I 3 hrs

4. Specialization; select one area
   A. Performance Specialization (63 hrs)
      TPP 2170C Acting II - Fundamentals 3 hrs
      DAA 2200C Ballet I 3 hrs
      TPP 2710C Voice Production I 2 hrs
      TPP 3172C Acting III - Characterization 3 hrs
      TPP 4193 Thea. Prod./Perf. IV 1 hr
      TPP 4194 Thea. Prod./Perf. V 1 hr
      DAA 2020C Ballet II 3 hrs
      TPP 3512C Stage Combat 2 hrs
      TPP 3257 Musical Theatre Voice I 2 hrs
      TPP 3258 Musical Theatre Voice II 2 hrs
      TPP 3711C Voice Production II 2 hrs
      TPP 3712C Voice Production III 2 hrs
      TPP 3730C Voice Production IV 2 hrs
      TPP 4140C Acting IV - Studio 3 hrs
      TPP 4142C Acting V - Verse 3 hrs
      TPP 4265C Acting for TV/Film 3 hrs
      TPP 4531C Period Movement 2 hrs
      TPP 4940 Theatre Performance Internship 6 hrs
      TPA 3248C Makeup Techniques 2 hrs
      TPP 3223 Theatre Careers for Performance 3 hrs
      DAA 2570C Theatre Jazz Dance 3 hrs
      Restricted electives (see list of courses) 10 hrs
   B. Stage Management Specialization
      TPA 4602 Advanced Stage Management 3 hrs
      TPA 4400 Theatre Management 3 hrs
      TPP 2170C Acting II - Fundamentals 3 hrs
25% of course work must be completed in residency at UCF

48 semester hours of upper division credit completed

60 semester hours earned after CLEP awarded

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, or residency credit can be applied

Credit by Exam, and Armed Forces 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 BA

Related Minors: Art, Music, Film

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

Acceptable Substitutes for program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all theatre courses and must be taken.
- THE 3305: may use THE 2300
- THE 2090: may use THE 2925
- TPP 2190: may use TPP 1190
- TPP 2210: may use TPP 2210 or THE 2271
- TPP 2210: may use THE 2261

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: theatre@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. Disney, Universal, and the budding expansion of the arts in Central Florida make it necessary for students to receive advanced studies in acting, musical theatre voice, and dance.

Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements

- Entrance into most theatre classes is restricted to majors.
- Exceptions must be approved by the Department.
- 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 or internship credit cannot be used in this major
- Students must consult with a departmental advisor every semester before registration

Co-op or internship credit cannot be used in this major
UCF Degree Programs

- 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 performance and Musical Theatre majors are required to audition for all Fall and Spring productions and must accept the roles assigned.
- Due to the conservatory nature, the BFA demands a closely integrated curriculum. Therefore, transfer students are not generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System may be admitted.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     - Select SPC 1600 Fund Oral Communication
     - Select two semesters of English Composition
   - B. Cultural and Historical Foundations
     - Select one 2 semester sequence
     - Select THE 2000 Survey of Theatre
   - C. Mathematical Foundations
     - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
     - Prefer CGS 1060C Intro to Computer Sci or CGS 2100C Computer Fund for Business
   - D. Social Foundations
   - E. Science Foundations

2. Common Program Prerequisites (12 hrs)
   - THE 2000* Survey of Theatre for majors
   - THE 3305* Survey of Dramatic Literature I
   - TPA 2290* Theatre Production/Performance I
   - TPA 2210* Stagecraft I
   - TPP 2190* Theatre Production/Performance I
   - TPP 2110* Acting I - Introduction
   - *See Transfer Notes for possible substitutes

3. Specialization: Lower Division (24 hrs)
   - MUT 1004 Music Fundamentals I
   - MUT 1002 Music Fundamentals II
   - TPF 2110C Acting II - Fundamentals
   - DAA 2200C Ballet I
   - DAA 2201C Ballet II
   - DAA 2570C Theatre Jazz Dance I
   - DAA 2571C Theatre Jazz Dance II
   - DAA 2520C Theatre Tap Dance I

4. Specialization: Upper Division (54 hrs)
   - TPP 3172C Acting III - Characterization
   - TPP 3250 Musical Theatre Acting Perf I
   - TPP 3252 Musical Theatre Acting Perf II
   - TPP 4253 Musical Theatre Acting Perf III
   - TPP 3241 Survey of Musical Theatre I
   - TPP 4242 Survey of Musical Theatre II
   - TPP 3223 Theatre Careers
   - TPP 4531C Period Movement
   - TPP 3512C Stage Combat
   - TPP 4255 Musical Theatre Cabaret
   - TPP 4248C Make-up Techniques
   - THE 3110 Theatre History I

TPP 3310C Directing I
TPP 4193 Theatre Production/Performance IV
TPP 4194 Theatre Production/Performance V
TPP 4195 Theatre Production/Performance VI
TPP 3257 Musical Theatre Voice I
TPP 3258 Musical Theatre Voice II
TPP 4XXX Musical Theatre Voice III
TPP 4XXX Musical Theatre Voice IV
TPP 4940 Internship

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or better in each Theatre course
   - Take a Departmental Exit Examination
   - Computer Competency met by Computer Science courses

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

7. Electives (variable)

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

Total Semester Hours Required 129 hours

Related Programs: Film, Music, Theatre BA
Related Minors: Music, Film

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
- THE 3305: may use THE 2300 or THE 3303 or TPP 3650
- THE 2090: may use THE 2925
- TPP 2290: may use TPP 1290
- TPP 2190: may use TPP 1190
- TPP 2110: may use TPP 2210 or THE 2271
- TPP 2210: may use THE 2261
MINORS, CERTIFICATES, AND STUDY ABROAD

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student’s baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the “Intent to Graduate Form.” Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

Minor

- Accounting
- Addictions Certificate
- Aerospace Studies
- African - American Studies
- Aging Studies Certificate
- Aging Studies
- American Humanities
- American Sign Language Certificate
- American Studies
- Anthropology
- Anthropology in Multicultural Studies
- Art History
- Art - Studio
- Asian Studies
- Astronomy
- Behavioral Forensics Certificate
- Biology
- Business
- Chemistry
- Children’s Services Certificate
- Coaching
- Cognitive Sciences
- Communicative Disorders
- Community Arts - PAVE
- Computer Information Technology
- Computer Science
- Computer Science - Applied: Minor, Certificate
- Crime Analysis and Crime Mapping Certificate
- Crime Scene Investigation Certificate
- Criminal Justice
- Criminal Profiling Certificate
- Cultural Tourism Certificate
- Digital Media
- Digital Media Certificate
- Early Childhood Education
- e-Business
- Economics
- Emergency Management
- English - Creative Writing
- English - Linguistics
- English - Literature
- English - Technical Writing and Editing
- English - Writing
- Environmental Studies
- Exceptional Education
- Film - Cinema Studies
- Fitness Training
- French
- German
- Health Information Management
- Health Sciences
- Health Services Administration
- History
- Hospitality Management
- Humanities
- International Business
- Interpersonal Communication
- Italian
- Jazz Studies Certificate
- Judaic Studies: Minor, Certificate
- Language Development and Disorders Certificate
- Latin American Area Studies
- Legal Studies
- Magazine Journalism
- Management Information Systems
- Marketing
- Marketing Certificates
- Mass Communication
- Mathematics
- Middle Eastern Studies
- Military Science
- Molecular Biology and Microbiology
- Music
- Non-Profit Management Certificate
- North American Indian Studies
- Organizational Communication
- Philosophy
- Physics
- Political Science
- Political Science/Prelaw
- Psychology
- Public Administration
- Real Estate
- Religious Studies
- Russian Area Studies
- Security Management Certificate
- Social Sciences - Interdisciplinary
- Sociology
- Space Studies
- Spanish
- Statistics
- Technical Education and Industry Training
- Technology and Society
- Theatre - General
- Translation and Interpretation Certificate
- Urban and Regional Planning
- Women’s Studies
- Women’s Studies Certificate

Additional UCF Programs

Foreign Study Abroad Program:
- Dominca
- France
- Germany
- Italy
- Japan
- Jordan
- South Africa
- Spain
- 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

<table>
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<tr>
<th>9 hrs</th>
<th>ACG 2021</th>
<th>Principles of Financial Accounting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACG 2071</td>
<td>Principles of Managerial Accounting</td>
</tr>
</tbody>
</table>

Select one of the following (may not be counted as an elective if selected as a required course):

<table>
<thead>
<tr>
<th>3 hrs</th>
<th>ACG 3131</th>
<th>Financial Accounting Concepts and Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACG 3361</td>
<td>Intermediate Managerial Accounting</td>
</tr>
</tbody>
</table>

Restricted Electives
(12 hrs)

Select four from the following (at least two courses must have either an ACG or TAX prefix):

- ACG 4301 | Accounting Information Systems |
- ACG 4651 | Auditing |
- ACG 4671 | Internal Auditing |
- ACG 4932 | Approved Special Topics |

Courses in Accounting
3 hrs

- FIN 4453 | Financial Models |
- TAX 4001 | Taxation of Business Entities and Transactions |
- FIN 3414 | Intermediate Corporate Finance |
- FIN 4453 | Financial Models |

3 hrs

- ISM 3005 | MIS Techniques |
- ISM 4212 | Database Management Systems |

3 hrs

Other Requirements
- A grade of “C” (2.0) is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

ADDITIONS: Certificate

College of Health and Public Affairs
School of Social Work, HPA1 204

BSW Coordinator, 407-823-2114
socialwk@mail.ucf.edu

The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human serv-
Minors, Certificates and Study Abroad

ices, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

Admission Requirement:
This Certificate is only open to students in the graduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addictions courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida.

Credit Hour Requirements: 12 hrs

Required Courses:
- SOW 4706/5712 Interventions with Substance Abusers (3 hrs)
- SOW 3932 Practice II: Interpersonal Skills (3 hrs)
- SOW 4341 Micro-Level Roles and Interventions (3 hrs)

Restricted Electives:
- Select from one of the following:
  - SOW 4705/5713 Prevention and Treatment of Adolescent Substance Abuse (3 hrs)
  - SOW 5604 Medications in Social Work Practice (3 hrs)
  - SOW 5937 Substance Abuse and Older Adults (3 hrs)
  - SOW 5962 Strategies in Employee Assistance Programs (3 hrs)
  - SOW 5967 Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses) (3 hrs)

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:
- AFR 1101C 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 Evaluation and Management II (3 hrs)
- AFR 4201C Nat Soty Forces in Cent Am Soc I (3 hrs)
- AFR 4210 Nat Soty Forces in Cent Am Soc II (3 hrs)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

AFRICAN-AMERICAN STUDIES: Minor

College of Arts and Sciences
African American Studies Program, CNH 201M
http://www.cas.ucf.edu/africanamericanstudies
J. Stephenson, 407-823-0026

The African American Studies minor is designed to complement a student’s major and 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, Foreign Languages and Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

Credit Hour Requirements: 18 hrs

Required Courses:
- AFA 3104 The African American Experience (3 hrs)
- AMH 3571 Black American History I (3 hrs)

Restricted Electives:
- AFA 2300 African American Music (3 hrs)
- AFA 3955 Study Abroad in the Caribbean (3 hrs)
- AFH 3100 African History to 1870 (3 hrs)
- AMH 3572 Black American History II (3 hrs)
- AML 3614 Topics in African-American Literature (3 hrs)
- AML 3615 Harlem, Haiti, & Havana (3 hrs)
- AFR 3200 African Art (3 hrs)
- INR 3253 International Politics of Africa (3 hrs)
- FIL 3412 Black Cinema (3 hrs)
- LAH 3470 History of the Caribbean (3 hrs)
- LAS 4023 Afr Caribbean Experience (3 hrs)
- LIT 3192 Caribbean Literature (3 hrs)
- MUL 2016 Evolution of Jazz (3 yrs)
- POS 4622 Politics & Civil Rights (3 hrs)
- PUP 3314 Minorities in American Politics (3 hrs)
- SOP 3724 The Psychology of Racial Prejudice (3 hrs)
- SYD 3700 Race and Ethnic Minorities in the U.S. (3 hrs)

Additional courses may be used only with the prior permission of the program director.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

AGING STUDIES: Certificate

College of Health and Public Affairs
School of Social Work, HPA 204

BSW Coordinator, HPA 204, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers 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.

Credit Hour Requirements: 15 hrs

Required Course:
- SOW 4510 Field Education (3 hrs)

Required Internship:
- GEY 3901 Internship (3 hrs)
- PSY 3951 Internship (3 hrs)
- SYP 4941 Internship (3 hrs)

Electives:
- GEY 3901 Internship (3 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. Courses may be selected from any 5000 level courses in the graduate certificate program.

College of Health and Public Affairs

BSW, 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 4932 Legal Issues of the Elderly (3 hrs)
SOW 4645 Social Services for the Elderly (3 hrs)

College of College of Arts & Sciences

DEP 3464 Psychology of Aging (3 hrs)
SYD 4730 Sociology of Aging (3 hrs)
GEY 3930/ Women and Aging (3 hrs)
SYP 3930 Creative Aging (3 hrs)
HSA 4941 Internship (3 hrs)
HSA 4941 Internship (3 hrs)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C-” (1.75) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study credit cannot be used toward the minor.

AGING STUDIES: Minor

College of Health and Public Affairs
School of Social Work, HPA 204

BSW Coordinator, HPA 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.

Credit Hour Requirements: 15 hrs

Required Course:
- SOW 4510 Field Education (3 hrs)

Required Internship:
- GEY 3901 Internship (3 hrs)
- PSY 3951 Internship (3 hrs)
- SYP 4941 Internship (3 hrs)

Electives:
- GEY 3901 Internship (3 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. Courses may be selected from any 5000 level courses in the graduate certificate program.

College of Health and Public Affairs

BSW, 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 4932 Legal Issues of the Elderly (3 hrs)
SOW 4645 Social Services for the Elderly (3 hrs)

College of College of Arts & Sciences

DEP 3464 Psychology of Aging (3 hrs)
SYD 4730 Sociology of Aging (3 hrs)
GEY 3930/ Women and Aging (3 hrs)
SYP 3930 Creative Aging (3 hrs)
HSA 4941 Internship (3 hrs)
HSA 4941 Internship (3 hrs)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C-” (1.75) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study credit cannot be used toward the minor.
BSW Coordinator, HPA 1, 204, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers an eighteen-hour interdisciplinary program leading to a Minor in Aging Studies. The Minor is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. Also all students must contact the coordinator for planning their internship.

Credit Hour Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>18 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEY 3001</td>
<td>Gerontology: Interdisciplinary Overview 3 hrs</td>
</tr>
<tr>
<td>Required Internship: 120 hours; Select one</td>
<td></td>
</tr>
<tr>
<td>SSOW 4510</td>
<td>Field Education 3 hrs</td>
</tr>
<tr>
<td>HSA 4941</td>
<td>Internship 3 hrs</td>
</tr>
<tr>
<td>PSY 4951</td>
<td>Internship 3 hrs</td>
</tr>
<tr>
<td>SYP 4941</td>
<td>Internship 3 hrs</td>
</tr>
<tr>
<td>Electives (12 hrs)</td>
<td></td>
</tr>
</tbody>
</table>

Students select four additional courses from the following: At least two courses must be outside their college. Courses may be selected from any 5000 level courses in the graduate certificate program.

College of Health and Public Affairs

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 4220 Long Term Care</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 3222 Long Term Administration</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 4564 Health Care Needs of the Elderly</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4286 Gerontologic Nursing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PLA 4530 Legal Issues of the Elderly</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 4645 Social Services for the Elderly</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

College of Arts and Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP 3464 Psychology of Aging</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SYP 4730 Sociology of Aging</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEY 4930 Women and Aging</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SYP 3930 Minority Aging</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor
- Grades less than “C-” (1.75) are not accepted
- At least 12 hours used in the minor must be earned at UCF within the program
- No credit by exam (TSD, Military credit) may be used
- Independent Study credit may not be used toward the minor

AMERICAN HUMANICS: Minor

American Humanics Minor with National Certificate

College of Health and Public Affairs

Joan Nelson, MBA, MSW - Campus Director
Phone 497-823-0713; e-mail ahminor@mail.ucf.edu

The American Humanics Minor at the University of Central Florida will provide interdisciplinary classroom experience and experiential learning opportunities for students and community residents planning a career as a nonprofit professional working with America’s youth and families. This minor will result in a National Certification in American Humanics Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>(19 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAF 3930</td>
<td>American Humanics Human Service Workshop 4 hrs</td>
</tr>
<tr>
<td>PAF 4948</td>
<td>American Humanics Internship 3 hrs</td>
</tr>
</tbody>
</table>

* Internships within other programs may be accepted with prior approval of American Humanics advisor.

Generalist Emphasis

Restricted Electives (12 credit hours)

Choose at least one course from each of the following four groups.

Group I: General Nonprofit Management, Volunteerism and Human Development

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 4941 Directed Field Experience</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4144 Nonprofit Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4149 Volunteer Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*SOW 3203 Social Welfare and Community Resources</td>
<td></td>
</tr>
<tr>
<td>*SOW 3104 Assessing I - Human Development</td>
<td></td>
</tr>
</tbody>
</table>

Group II: Planning & Evaluation and Human Resource Development

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 4144 Nonprofit Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4153 Strategic Planning &amp; Implementation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4325 Program Evaluation for the Public and Nonprofit Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*SOW 4431 Evaluating Social Work Practice &amp; Service Programs</td>
<td></td>
</tr>
<tr>
<td>PAD 4414 Human Resource Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAN 3025 Management of Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAN 3301 Human Resource Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAN 4101 Human Relations in Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAN 4129 Managerial Skills in Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAN 4320 Human Resources, Recruitment &amp; Selection</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Group III: Communication & Marketing

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 4144 Nonprofit Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*SOW 3352 Practice II: Interpersonal Skills</td>
<td></td>
</tr>
<tr>
<td>COM 3110 Business &amp; Professional Communications</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 3445 Leadership Through Oral Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEB 3031 The Cornerstone Course</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAR 3023 Marketing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAR 3641 Marketing Intelligence</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAR 4803 Marketing Management</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 4144 Nonprofit Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACG 2021 Financial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACG 2071 Managerial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 5890 Grant and Contract Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4204 Fiscal Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4131 Public Sector Project Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4147 Resource Development in the Nonprofit Sector</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Public Affairs Emphasis

Restricted Electives Choose at least two from the following (6 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 4131 Public Sector Project Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4144 Non-Profit Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4147 Resource Development in the Nonprofit Sector</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4204 Fiscal Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4325 Program Evaluation for the Public and Non-Profit Organizations</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Restricted Electives Choose at least two from the following (6 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 4148 Volunteer Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4153 Planning and Improvement for Public Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4223 Public Budgeting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PAD 4253 Community and Economic Development</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Other Requirements
- Enrollment in American Humanics Certificate Program. through AH program office.
- Attendance at one national American Humanics Management Institute (additional fees)
- Membership in UCF American Humanics Student Association
  * open only to SOW majors

AMERICAN SIGN LANGUAGE (ASL): Certificate

College of Health and Public Affairs

Department of Communicative Disorders,
HPA-2, Suite 101
http://www.cohpa.ucf.edu/comdis
UG Coordinator, 407-823-4798

Since 1995 the demand for American Sign Language (ASL) classes has increased 165% as individuals and professionals have become sensitive to the need to communicate directly with the deaf and hard of hearing community. This certificate is designed to provide students with the conversational competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for undergraduate students majoring in communicative disorders, general and special education, psychology, 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.

Credit Hour Requirements

14 hrs
ANTHROPOLOGY: Minor

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 3168 Maya Archaeology (or ANG 6168)
- ANT 3184 Mortuary Archaeology
- ANT 4153 North American Archaeology
- ANT 4180C Seminar in Laboratory Analysis

Concentration in Physical Anthropology (12 hrs)
Take four of the following courses:
- ANT 3184 Mortuary Archaeology
- ANT 3541 Biobehavioral Anthropology
- ANT 3550 Primatology
- ANT 4521C Forensic Anthropology
- ANT 4462 Medical Anthropology
- ANT 4525C Human Osteology
- ANT 4586 Human Origins

Concentration in Cultural Anthropology (12 hrs)
ANT 2000 and ANT 2410 must be taken. The other four courses must be selected from:
- ANT 3212 Peoples of the World
- ANT 3241 Magic, Ritual, and Belief
- ANT 3245 Native American Religions
- ANT 3262 Rural Society
- ANT 3273 Law and Culture
- ANT 3302 Sex, Gender and Culture
- ANT 3311 Indians of the SE US
- ANT XXXI 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 3364 The Incas
- ANT 3332 Peoples and Culture of Latin America
- ANT 3701 Applied Anthropology
- ANT 3963 Anthropology of Japan
- ANT 3640 Language and Culture
- ANT 3340 Caribbean Cultures
- ANT 3319 The Anthropology of Diaspora
- ANT 4034 History of Anthropological Thought
- ANT 4309 Gender Issues in Latin America
- ANG 5167 Maya Hieroglyphs
- ANG 5228 Maya Iconography
- ANG 6324 Contemporary Maya

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor

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 3168 Maya Archaeology (or ANG 6168)
- ANT 3184 Mortuary Archaeology
- ANT 4153 North American Archaeology
- ANT 4180C Seminar in Laboratory Analysis

Concentration in Physical Anthropology (12 hrs)
Take four of the following courses:
- ANT 3184 Mortuary Archaeology
- ANT 3541 Biobehavioral Anthropology
- ANT 3550 Primatology
- ANT 4521C Forensic Anthropology
- ANT 4462 Medical Anthropology
- ANT 4525C Human Osteology
- ANT 4586 Human Origins

Concentration in Cultural Anthropology (12 hrs)
ANT 2000 and ANT 2410 must be taken. The other four courses must be selected from:
- ANT 3212 Peoples of the World
- ANT 3241 Magic, Ritual, and Belief
- ANT 3245 Native American Religions
- ANT 3262 Rural Society
- ANT 3273 Law and Culture
- ANT 3302 Sex, Gender and Culture
- ANT 3311 Indians of the SE US
- ANT XXXI 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 3364 The Incas
- ANT 3332 Peoples and Culture of Latin America
- ANT 3701 Applied Anthropology
- ANT 3963 Anthropology of Japan
- ANT 3640 Language and Culture
- ANT 3340 Caribbean Cultures
- ANT 3319 The Anthropology of Diaspora
- ANT 4034 History of Anthropological Thought
- ANT 4309 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.
Minors, Certificates and Study Abroad

ANT 3212  Peoples of the World
ANT 3241  Magic, Ritual, and Belief
ANT 3245  Native American Religions
ANT 3202  Sex, Gender and Culture
ANT XXX  Ethnology of North Amer Indians
ANT 3332  People and Cultures of Latin Amer
ANT 3640  Language and Culture
ANT 3340  Caribbean Cultures
ANT 3319  The Anthropology of Diaspora
ANT 4308  Gender Issues in Latin America
SYD 3700  Race and Ethnic Minorities in the US

Other Requirements
- Earn a grade of “C” (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- 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 2455  Art of India
ARH 3520  African Art
ARH 4655  Meso American Art
Non-western Course Requirement (3 hrs)
Select from the following:
ARH 4455  Art of India
ARH 3520  African Art
ARH 4655  Meso American Art
Restricted Elective: (3 hrs)
ARH 4350  Baroque Art
ARH 4200  Medieval Art
ARH 4892  Women in Art
ARH 4890  Theory and Criticism of the Visual Arts

6 hours of electives
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 (18 hrs)
ART 2050  The History of Art I
ART 2051  The History of Art II
ART 4310  Early Italian Renaissance Art
ART 4430  19th Century Art
ART 4450  20th Century Art
Non-western Course Requirement (3 hrs)
Select from the following:
ART 4350  Baroque Art
ART 4200  Medieval Art
ART 4892  Women in Art
ART 4890  Theory and Criticism of the Visual Arts

6 hours of electives
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.

ASIAN STUDIES: Minor
College of Arts and Sciences
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history
history@ucf.edu
Hong Zhang, 407-823-2224

An interdisciplinary minor in which seven UCF departments; Anthropology, Art, Economics, Foreign Languages and Literatures, History, Philosophy, and Political Science participate in order to offer students a basic and well-rounded background in the field. Courses are to be selected in consultation with a departmental advisor.

Credit Hour Requirements 24 hours
Required Course (3 hrs)
HUM 3401  Asian Humanities

Restricted Electives (21 hrs)
Approved courses (see department for listing)

Foreign Language Requirement (0-8 hrs)
One year or the equivalent proficiency examination. Students taking foreign language classes must complete at least six hours in the sequence chosen (e.g. Chinese, Japanese).

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used in the minor without prior approval by the director.

ASTRONOMY: Minor
College of Arts and Sciences
Department of Physics, MAP 310
physics@ucf.edu
407-823-2325

Credit Hour Requirements 20 hours
Required Course (18 hrs)
PHY 2048  Physics for Engineers & Scientists I
PHY 2048L  Physics for Engineers & Scientists I Lab
PHY 2049  Physics for Engineers & Scientists II
PHY 2049L  Physics for Engineers & Scientists II Lab
AST 2002  Introductory Astronomy
AST 3110  Solar System Astronomy
AST 3211  Stellar Astrophysics
AST 3402  Galaxies and Cosmology

Restricted Electives (2 hrs)
Select either:
PHY 2048  Physics for Engineers & Scientists I
PHY 2049  Physics for Engineers & Scientists II
PHY 2048L  Physics for Engineers & Scientists I Lab
PHY 2049L  Physics for Engineers & Scientists II Lab

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

BEHAVIORAL FORENSICS: Certificate
College of Arts and Sciences
Psychology Department, PH 302
http://pegasus.cc.ucf.edu/~psych
psychology@ucf.edu
## Psychology Minor

**Credit Hour Requirements**: 27 hours

**Prerequisite Courses**
- PSY 2012 General Psychology or GEP
- SYG 2000 General Sociology
- PPE 3003 Personality Theories
- SYP 3510 Soc of Deviant Behavior

**Required Courses**
- PSY 4XXX Forensic Psychology (3 hrs)
- PSY 3620 Legal Aspects of Psych (3 hrs)
- SYP 3520 Criminology (3 hrs)
- SYP 3540 Sociology of Law (3 hrs)

**Restricted Electives**
- Note: It is the student's responsibility to meet all prerequisites for any course selected.
- From Psychology, select one of the following:
  - CLP 3143 Abnormal Psychology
  - CLP 3302 Clinical Psychology
  - CLP 4134 Childhood Psychopathology
  - PCO 4203 Interviewing and Counseling
- From Sociology, select one of the following:
  - SYP 3511 Sociology of Murder
  - SYP 3530 Juvenile Delinquency
  - SYP 4521 Criminal Victimization in Society
  - SYP 4514 Sociology of Violence
  - SYP 4536 Gangs and Society
  - SYP 4314C Soc Perspectives on Domestic Violence
- From Criminal Justice, select one of the following:
  - CCJ 3014 Crime in America
  - CCJ 3024 Criminal Justice System
  - CCJ 4670 Women and Crime
  - CCJ 4630 Serial Murder & CJ
  - CCJ 4616 Criminal Profiling in CJ
  - CCJ 3667 Victims and the CJ System
  - CCJ 4681 Domestic Violence & the Justice Syst
  - CCJ 4690 Sex Offenders & the CJ System

**Other Requirements**
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

## Biology Minor

**Credit Hour Requirements**: 32 hours

**Required Courses**
- BSC 2010C General Biology (4 hrs)
- BSC 2011C Biological Diversity (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 3034 Principles of Ecology (3 hrs)
- PCB 3063 Genetics (3 hrs)
- PCB 4083 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 department 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

**Credit Hour Requirements**: 24 hours

**Required Accounting Course(s)**
- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting

**Required Courses**
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- FIN 3403 Business Finance
- MAN 3025 Management of Organizations
- MAR 3023 Marketing

**Restricted Elective**
- A 3000 level business core course (GEB 3004 may not be used)

**Other Requirements**
- A grade of “C” (2.0) is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
- A minor in Biology will not be awarded to students who have, or expect to earn, any other Life Science degree.

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**Biology Department, BL 301**

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

**F. Logiudice, 407-823-2141**

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**Department of Economics, BA 229F**

**B. Moore, 407-823-5256, bmoore@bus.ucf.edu**

**Credit Hour Requirements**: 24 hours

**Required Accounting Course(s)**
- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting

**Required Courses**
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- FIN 3403 Business Finance
- MAN 3025 Management of Organizations
- MAR 3023 Marketing

**Restricted Elective**
- A 3000 level business core course (GEB 3004 may not be used)

**Other Requirements**
- A grade of “C” (2.0) is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
- A minor in Biology will not be awarded to students who have, or expect to earn, any other Life Science degree.

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**Minors, Certificates and Study Abroad**

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**UNIVERSITY OF CENTRAL FLORIDA**

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**2004-2005 Undergraduate Catalog**
CHEMISTRY: Minor
College of Arts and Sciences
Department of Chemistry, CH 117
http://www.cas.ucf.edu/chemistry
chemistry@ucf.edu
Brooks Madsen, 407-823-2246

Credit Hour Requirements 28 hours
Required Courses
CHM 2045 Chemistry Fundamentals I 4 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2046L Chemistry Fundamentals Laboratory 1 hr
CHM 2210 Organic Chemistry I 3 hrs
CHM 2211 Organic Chemistry II 3 hrs
CHM 2211L Organic Laboratory Techniques I 2 hrs
CHM 3120C Analytical Chemistry 5 hrs

Restricted Upper Division Electives (7 hrs)
At least one course must be selected from group I and the remaining from group I and/or II.

Group I: Select at least one course

CHM 3212L Organic Laboratory Techniques II
CHM 4130C Advanced Analytical Laboratory Technique
BCH 4103L Biochemical Methods
CHS 3520C Forensic Analysis of Controlled Substances
CHM 3411L Physical Chemistry Laboratory
CHM 5451C Polymer Laboratory

Group II:

CHM 4053 Biochemistry I
CHM 4054 Biochemistry II
CHM 3410 Physical Chemistry I
CHM 3411 Physical Chemistry II
CHM 5225 Advanced Organic Chemistry I
CHM 4220 Organic Chemistry III
CHS 4200 Concepts in Industrial Chemistry
CHM 5226 Applied Molecular Spectroscopy
CHM 5450 Polymer Chemistry
CHS 4615 Environmental Chemistry

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department, with a minimum GPA of 2.0.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

CHILDREN’S SERVICES: Certificate
College of Health and Public Affairs
School of Social Work, 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.

Admission Requirement:
This certificate is open only to students in the undergraduate social work program (BSW)

Credit Hour Requirements 18 hours
Required Courses
SOW 3352 Practice II: Interpersonal Skills 3 hrs
SOW 4654 Children’s Services 3 hrs
SOW 4650 Child Abuse: Treatment & Prevention 3 hrs
SOW 4510 Field Education* 9 hrs

* Placement with the Department of Children and Families-working with child welfare or placement in an agency that serves children.

NOTE: Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

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 for all persons certified to teach, which includes nine hours (Human Injuries, Coaching Theory, and a Coaching Specialization course). This minor is appropriate for those students who plan to coach and/or are seeking a career in the fields of Physical Education and sport. The following courses will give the student a coaching endorsement as well as strengthen the marketability of the student’s major program.

Credit Hour Requirements 18 hours
Required Courses
*PET 2622C Human Injuries 3 hrs
PET 3785 Coaching Theory 3 hrs
PET 3493 Sports Ethics 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4763 Coaching Methods and Principles 3 hrs
Select one course from the following:
PEO 2624 Coaching Football 3 hrs
PEO 3644 Coaching Basketball 3 hrs
PEO 3324 Coaching Volleyball 3 hrs

* If the student has completed this course at a community college it can be transferred into the program.

Other Requirements
- An overall GPA of 2.0 is required to satisfy the minor.
- No grades below “C-” (1.75) and no “S” grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No TSD or Military credit may be used.
- Internship or Independent Study credit cannot be used toward the minor.

COGNITIVE SCIENCES: Minor
College of Arts and Sciences
Philosophy Department, CHN 411
http://www.cas.ucf.edu/philosophy/
E-mail: phildept@ucf.edu
Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

Psychology Advising Center: PH 305G 407-823-2219

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, neuroimaging, information technology, clinical or counseling psychology, biotechnology, and others.

Credit Hour Requirements 21 hrs
Note: It is the student’s responsibility to satisfactorily complete all prerequisite courses prior to registering for each course. Students must check the most current catalog before registering, and abide by the prerequisites in effect at that time.

Foundation Courses (15 hrs)
Select from at least 4 subject areas
Neuroscience
PSB 3002 Physiological Psychology (PR: PSY 2012)
PSB 4013C Neuropsychology (PR: BSC 3002)
ZOO 4744 Neurobiology (PR: BSC 2010)
PSB 4422 Brainwaves and Behavior (PR: PSB 3002)

Philosophy
PHI 3320 Philosophy of Mind (PR: PHI 2010, PHI 2012, 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 3513 Cognitive Psychology (PR: PSY 2012)
EXP 4507C Advanced Human Memory and Cognition
(PR: PSY 3214C and EXP 3513)
EXP 3204C Perception (PR: PSY 2012, PSY 3214C)
EXP 4218L Experimental Laboratory in Human Memory and
Minors, Certificates and Study Abroad

Computer Science and Information Technology

Required Courses (36 hrs)

- COP 3502 Computer Science I
- COP 3503 Computer Science II
- CDA 3103 Computer Organization
- MTH 2104 Foundations of Discrete Math
- COP 3223 Intro to Programming with C
- COP 3307 Database Concepts
- CGS 3269 Comp Arch Concepts
- CGS 3285 Comp Networks Concepts
- CGS 3763 Operating System Concepts
- COP 3346 Unix

Additional three credits chosen from any upper level course offered by the School of Computer Science.

Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 18 hours used in the minor must be earned within Computer Science at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.

COMMUNITY ARTS—PAVE: Minor

College of Arts and Sciences

Department of Art, VAB 117

http://www.art.ucf.edu/

art@ucf.edu

Kevin Haran, 407-823-5203

Minor Requirements

Partners in Art in Visual Education (PAVE)

A minor in Community Arts—PAVE is offered for the student who is majoring in Art, Music, Theatre, or English (with a Creative Writing focus). Students interested in the minor should contact the department chair.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- No credit by exam (TSD, Military credit) may be used toward the minor.

COMPUTER INFORMATION TECHNOLOGY: Minor, Certificate

College of Engineering and Computer Science

School of Computer Science, CSB 201

E-mail: computerscience@ucf.edu

http://www.cs.ucf.edu

Mark Llewellyn, 407-823-2341

Credit Hours Requirements

- Required Courses (36 hrs)
  - COP 3502 Computer Science I
  - COP 3503 Computer Science II
  - CDA 3103 Computer Organization
  - MTH 2104 Foundations of Discrete Math
  - COP 3223 Intro to Programming with C
  - COP 3307 Database Concepts
  - CGS 3269 Comp Arch Concepts
  - CGS 3285 Comp Networks Concepts
  - CGS 3763 Operating System Concepts
  - COP 3346 Unix

Additional three credits chosen from any upper level course offered by the School of Computer Science.

Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 18 hours used in the minor must be earned within Computer Science at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the certificate.
Restricted Upper Division Electives (6 hrs)
Select two of the following:
CCJ 3451 Justice System Technology 3 hrs
CJE 3444 Crime Prevention 3 hrs
CJE 4564 Crime and Place 3 hrs
CCJ 3450 Criminal Justice Manager 3 hrs
Credit Hour Requirements 18-19 hours
Required Courses (6-7 hrs)
Select one of the following tracks:
Track 1:
CGS 1060C or COP 2100 and
Track 2:
COP 3223 Intro to Programming with C
Restricted Electives (6 hrs)
Select from the following:
CCJ 3450 Intro to Object Oriented Programming 3 hrs
COP 3502C Computer Science I 3 hrs
COP 3503C Computer Science II 3 hrs
COT 3100C Introduction to Discrete Structure 3 hrs
CDA 3103C Comp. Organization 3 hrs
Other Requirements
A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
At least 9 hours used in the minor must be earned within Computer Science at UCF.
No credit by exam (TSD, Military credit) may be used.
Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
CRIME ANALYSIS AND CRIME MAPPING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HHA 311;
Department of Sociology and Anthropology
College of Arts and Sciences
PH 403
David Fabianic, 407-823-5940
E-mail: fabianic@pegasus.cc.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.
Credit Hour Requirements 15 hours
Required Courses (12 hrs)
ANT 3XXX Forensic Anthropology 3 hrs
ANT 3101 Acheological Sciences 3 hrs
CJ 4616 Criminal Profiling 3 hrs
CJ 4100 Criminal Investigation 3 hrs
Restricted Upper Division Electives (6 hrs)
Select two of the following:
ANT 4528C Advanced Forensic Anthropology 3 hrs
SYP 3511 Sociology of Murder 3 hrs
CJE 4303 Serial Murder and the Criminal Justice System 3 hrs
CCJ 4195 Interview and Interrogations 3 hrs
CHS 3501 Introduction to Forensic Science 3 hrs
Other Requirements
A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit may not be used toward the program.
CRIMINAL JUSTICE: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HHA 311
David Fabianic, 407-823-2603
E-mail: cjadvise@mail.ucf.edu
Credit Hour Requirements 18 hours
Required Courses (6 hrs)
CCJ 3024 Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs
Restricted Electives (12 hrs)
Two of the following:
CJL 3510 Prosecution and Adjudication 3 hrs
CJE 3010 The Corrections and Penology 3 hrs
CJE 4014 Police and Society 3 hrs
Six semester hours of Criminal Justice Courses (selected with the aid of an advisor).
Other Requirements
Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
Grades less than “C-” (1.75) are not accepted.
Minors, Certificates and Study Abroad

- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

CRIMINAL PROFILING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HPAL 311
David Fabianic, 407-823-5904
E-mail: fabianic@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today’s law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

Credit Hour Requirements: 15 hours

Required Courses:
- CLP 3143 Abnormal Psychology (3 hrs)
- CJE 4630 Serial Murder and the Criminal Justice System (3 hrs)
- CCJ 4690 Sex Offenders and the Criminal Justice System (3 hrs)
- CCJ 4616 Criminal Profiling in Criminal Justice (3 hrs)

Restricted Upper Division Electives:
Select one of the following:
- CCJ 4100 Criminal Investigation (3 hrs)
- CCJ 4661 Terrorism (3 hrs)
- CCJ 4932 Interviews and Interrogations (3 hrs)

Other Requirements:
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

CULTURAL TOURISM: Certificate
College of Arts and Sciences
Office of Liberal and Interdisciplinary Studies
http://www.cas.ucf.edu/liberal_studies
lsis@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 hours

Required Courses:
- HFT 4735 Tourism Geography (3 hrs)
- ANT 4383 Anthropology of Tourism (3 hrs)
- Choose two classes from one of the following areas (6 hrs)

Other Requirements:
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

DIGITAL MEDIA: Certificate
College of Arts and Sciences
CREAT Digital Media Program, VAB 205
http://www.creat.cas.ucf.edu
digitalmedia@creat.cas.ucf.edu

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

Entrance Requirement:
- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student’s creativity and technical accomplishment is some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

Credit Hour Requirements:

Required Course:
- IDS 3683 Digital Media Production I (3 hrs)

Restricted Elective:
- Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program Director prior to being taken)

Senior Project:
- IDS 4682L Digital Media Project I (6 hrs)
- IDS 4703 Digital Media Project II (may be repeated for credit)

Other Requirements:
- A minimum grade of "C" (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can not be used toward the certificate without prior permission of the program director.

DIGITAL MEDIA: Minor
College of Arts and Sciences
Digital Media Program, VAB 205
http://www.creat.cas.ucf.edu
moshell@cs.ucf.edu
M. Moshell, 407-823-6100

Credit Hour Requirements:

Required Courses:
- IDS 3707 Principles of Digital Media
- ART 2600C Introduction to Computer Art
- IDS 4688L Internet Interaction
- COP 2500C Concepts in Computer Science

Restricted Elective Courses:
Select two courses:
- MUS 3XXX Music Technology
- ENC 4415 Digital Rhetorics and the Modern Dialectic
- IDS 3701C Internet Software Design
- ART 2201C Design Fundamentals I
- IDS 3782C Assembling Digital Media


**ECONOMICS:** Minor  
(for both Business Majors and non-Business Majors)  
College of Business Administration  
Department of Economics, BA 318  
R. Pennington, 407-823-2640, rpennington@bus.ucf.edu  

**Credit Hour Requirements**  
18 hours  

**Required Courses**  
- ECO 2013  Macroeconomics  3 hrs  
- ECO 2023  Microeconomics  3 hrs  
- Select one of the following two courses:  
  - ECO 3101  Intermediate Price Theory  3 hrs  
  - ECO 3203  Aggregate Econ Conditions Anal  3 hrs  

**Upper Division Restricted Electives**  
(9 hrs)  
Select from any ECO, ECP or ECS courses at the 3000-4000 level, excluding ECO 3401.

**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 9 hours used in the minor must be earned at UCF within the department.  
- 3 hours of Internship or Independent Study credit cannot be used toward the minor with prior approval of the economic advisor.

**ENGLISH - CREATIVE WRITING:** Minor  
College of Arts and Sciences  
Department of English, CNH 301  
english@ucf.edu  
TBA, 407-823-2212  

**Credit Hour Requirements**  
21 hours  

**Required Course**  
- 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 3310  Poetry Writing Workshop  
- CRW 3211  Creative Nonfiction Writing  

Select one course  
- CRW 4122  Advanced Fiction Writing Workshop  
  (PR: CRW 3120)  
- CRW 4320  Advanced Poetry Writing Workshop  
  (PR: CRW 3310)  
- CRW 4224  Advanced Nonfiction Workshop  
  (PR: CRW 3211)  

**Restricted Upper Division Electives**  
(12 hrs)  
Select any of the above courses not already used.

**Other Requirements**  
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
Minors, Certificates and Study Abroad

- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LINGUISTICS: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
TBA, 407-823-2212

Credit Hour Requirements 21 hours
Required Courses 18 hrs
LIN 3010 Introduction to Linguistics 3 hrs
LIN 4100 History of the English Language 3 hrs
LIN 4680 Modern English Grammar 3 hrs
Restricted Upper Division Electives 18 hrs
LIN 4643 Cross Cultural Communication
LIN 4660 Linguistics and Literature
LIN 4800 Language and Meaning
LIN 5137 Linguistics
ANT 3640 Language and Culture
PHI 4400 Philosophy of Science
or any course approved by the Linguistics Committee

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LITERATURE: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
TBA, 407-823-2212

Credit Hour Requirements 21 hours
Required Course 18 hrs
ENG 3014 Theories and Techniques of Lit Study (PR for all 4000 level AML, ENG, ENL, and LIT courses)
Restricted Upper Division Electives 18 hrs
English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department, and must be regularly scheduled, upper level courses.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - TECHNICAL WRITING & EDITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
TBA, 407-823-2212

Credit Hour Requirements 21 hours
Required Courses 18 hrs
ENC 3211 Theory & Practice of Tech Writing 3 hrs
ENC 3212 Advanced Expository Writing 3 hrs
ENC 4215 Techniques of Technical Publications 3 hrs
ENC 4218 Visual Elements in Documentation 3 hrs
ENC 4239 Technical Documentation I 3 hrs
ENC 4294 Technical Documentation II 3 hrs
ENC 4295 Technical Documentation III 3 hrs
Students completing the minor may intern with a Central Florida corporation

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 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
TBA, 407-823-2212

Credit Hour Requirements 18 hours
Restricted Elective Courses 18 hrs
Any 3000 or 4000 level ENC or CRW classes for which the student has met the prerequisites, including:
CRW 3103 Creative Writing for English Majors
CRW 3120 Fiction Writing Workshop
CRW 3310 Poetry Writing Workshop
CRW 3311 Creative Nonfiction Writing
CRW 4122 Advanced Fiction Writing Workshop
CRW 4123 Science Fiction Writing
CRW 4224 Advanced Nonfiction Workshop
CRW 4320 Advanced Poetry Writing Workshop
ENC 3211 Theory and Practice of Technical Writing
ENC 3241 Writing for the Technical Professional
ENC 3250 Professional Writing
ENC 3310 Magazine Writing I
ENC 3311 Advanced Expository Writing

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENVIRONMENTAL STUDIES: 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

The Environmental Studies minor degree is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the 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 18 hrs

Natural Sciences
- BSC 1050L Biology and Environment + lab
- BSC 2011C Biological Diversity
- BOT 3152C Local Flora
- BOT 4156C Florida Wildflowers
- BOT 3800 Ethnobotany
- BOT 4303C Plant Kingdom
- BOT 4696C Conservation and Management of Native Plants
- BOT 5623C Plant Geography and Ecology
- BOT 4713C Plant Taxonomy
- BSC 4312C Marine Biology
- PCB 3034L Principles of Ecology and Lab
- PCB 3442 Florida Aquatic Ecology
- PCB 4302C Physicochemical Limnology
- PCB 4303C Biological Limnology
- PCB 4683 Population Biology and Evolution
- PCB 5045C Conservation Biology
- PCB 5326C Ecosystems of Florida
- PCB 5435C Marine Ecology of Florida
- PCB 5485 Models in Ecology
- PCB 5328C Landscape Ecology
- CHM 3120C Analytical Chemistry
- CHM 4615 Environmental Chemistry
- HSC 4500 Epidemiology

Technology & Society
- EGN 4813 Science in History
REQUIRED COURSES (12 hrs)

EDG 4814 Technology in History
EDG 4824 Energy and Society
EDG 4825 Environmental and Society

ENVIRONMENTAL ENGINEERING

ENV 3001 Introduction to Environmental Engineering
ENV 4341 Solid Waste Management
ENV 4432 Potable Water Treatment
ENV 5334 Characterization of Hazardous Waste Sites

SOCIAL & HUMANITIES ELECTIVES (9 hrs)

ECON 4032 Economics of the Environment
ECON 4701 The Global Economy
INR 4551 International Environmental Law
PUB 3203 Environmental Politics
PUB 4503 Government and Science
PAS 4281 Issues in Environmental Program Management
PAS 5338 Introduction to Urban Planning
PAS 5338 Land Use and Planning Law
PLA 4631 Land Use and Environmental Law

PHIL 3033 Philosophy, Religion, and the Environment
PHI 3400 Philosophy of Science
PHI 4633 Ethics and Biological Science
PHM 4031 Environmental Philosophy
PHM 5035 Environmental Philosophy

SOP 3004 Social Psychology
SCE 4023 Teaching Science and Technology to Children
ANT XXXX Ethnology of North American Indians

WRITING, JOURNALISM COURSES

JOU 4181 Public Affairs Reporting
PGY 3610C Photojournalism I
LIT 4433 Survey of Technical and Scientific Literature

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.
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.

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
ED 315-N, 407-823-5477
E-mail: lcross@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor will strengthen the marketability of the student’s major program. This minor is available for students in the 2001 catalog and beyond.

CREDIT HOUR REQUIREMENTS 21 hours

RED 3012 Basic Foundations of Reading 3 hrs
EEX 4033 Teaching Exceptional Students 3 hrs
EEX 4601 Introduction to Behavior Management 3 hrs
EEX 4753 Parent/Professional Collaboration 3 hrs
EDF 4603 Analysis of Critical Issues 3 hrs
EGS 3243 Techniques for Exceptional Adolescents/Adults or
EEX 3241 Methods for Academic Skills for Except Students 3 hrs

RESTRICTED ELECTIVES

EEX 4054 Applications and Theories for Students with

EDF 4214 Special Needs 2 hrs
EDF 4213 Classroom Learning Principles 3 hrs

OTHER REQUIREMENTS

Completion of all parts of the CLAST with appropriate passing scores (no alternatives or waivers), or completion of an AA degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
A minimum GPA of 2.5 of all Gordon Rule classes including ENC 1101, 1102, and two college level math courses, MAC 1105 or higher, is required.
No Military credit may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Exceptional Education nor does it constitute admission to the College of Education.

FITNESS TRAINING: Minor

College of Education
Department of Teaching and Learning Principles
ED 209, 407-823-5791
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 18 hrs

REQUISITE COURSES (12 hrs)

FIL 1007 Foundations of Story or 3 hrs
FIL 1001 Cinema Survey 3 hrs
FIL 2400 History of Motion Pictures 3 hrs
FIL 3006 Art of the Cinema 3 hrs
FIL 2201 Foundations of Production 3 hrs

RESTRICTED ELECTIVES (Choose Two) (6 hrs)

FIL 3309 Women in Film 3 hrs
FIL 3520 Italian Film 3 hrs
FIL 3521 French Film 3 hrs
FIL 3XXX Black Images in Film 3 hrs
FIL 3522 German Film 3 hrs
FIL 3412 Black Cinema 3 hrs

OTHER REQUIREMENTS

A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
At least 12 hours must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor.

FITNESS TRAINING: Minor

Requirements

Required Courses

PET 2622C Human Injuries 3 hrs
PET 4054 Fitness Assessment and Exercise 3 hrs
PET 4083C Practical Fitness Training 4 hrs
ZOO 3738C Exercise Physiology Anatomy 4 hrs

* If the student has completed a Human Anatomy course with a laboratory
### Minors, Certificates and Study Abroad

For more information, please refer to the appropriate department.

#### FRENCH: Minor

**College of Arts and Sciences**

**Foreign Languages and Literatures, CNH 523**

[http://www.cas.ucf.edu/forlang](http://www.cas.ucf.edu/forlang)

**C. E. Stebbins, 407-823-2472**

**Credit Hour Requirements**: 18 hours

**Restricted Electives**

- Select six upper division courses in French, including the 3000- and 4000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

**Other Requirements**

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

#### GERMAN: Minor

**College of Arts and Sciences**

**Foreign Languages and Literatures, CNH 523**

[http://www.cas.ucf.edu/forlang](http://www.cas.ucf.edu/forlang)

**C. E. Stebbins, 407-823-2472**

**Credit Hour Requirements**: 18 hours

**Restricted Electives**

- Select six upper division courses in German, including the 3000- and 4000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

**Other Requirements**

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

#### HEALTH INFORMATION MANAGEMENT: Minor

**College of Health and Public Affairs**

**Department of Health Professions, HPA2 210**

**Thomas Falen, 407-823-2369**

**Email: tfalen@mail.ucf.edu**

**Credit Hour Requirements**: 20 hours

**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 Practice I 5 hrs

**Other Requirements**

- A minimum 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 SERVICES ADMINISTRATION: Minor

**College of Health and Public Affairs**

**Department of Health Professions, HPA2 210**

**L. Timothy Worrell, 407-823-2214**

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

**Credit Hour Requirements**: 18 hours

**Required Courses**

- **HSA 3111** U.S. Health Care Systems 3 hrs
- **HSA 4201** Community Health Services 3 hrs
- **HSA 4180** Org and Mgmt for Health Agencies 3 hrs
- **HSA 4191** Health Care Automation 3 hrs
- **HSC 4500** Epidemiology 3 hrs

**Restricted Elective**

- **HSC 3640** Health Law or
- **HSC 4653** Health Care Ethics or
- **HSA 4109** Managed Care or
- **HSA 4502** Risk Management
- **HSA 4700** Health Science Research Methods

**(Additional prerequisite courses may be required)**

**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.

#### HISTORY: Minor

**College of Arts and Sciences**

**Department of History, CNH 551**

[http://pegasus.cc.ucf.edu/~history/history@ucf.edu](http://pegasus.cc.ucf.edu/~history/history@ucf.edu)

**Edmund F. Kallina, 407-823-2224**

**Credit Hour Requirements**: 18 hours

**Restricted Upper Division Electives**

- Five upper division courses taught within the History Department and History Elective (3 hrs)

**Other Requirements**

- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of "C" (2.0) is required in each course for the minor.
- Grades less than "C" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by examination (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
Minors, Certificates and Study Abroad

HOSPITALITY MANAGEMENT: Minor
Rosen School of Hospitality Management
9907 Universal Boulevard
Orlando, FL 32819
407-823-2188 or 407-903-8900
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Credit Hour Requirements: 18 hours
Required Courses: 6 hrs
HFT 3000 Introduction to Hospitality Mgmt
HFT 3840 Guest Services Management I
Choose any two courses from the following: 6 hrs
HFT 2453 Hospitality Financial Accounting
HFT 3431 Hospitality Managerial Accounting
HFT 2500 Hospitality Marketing
HFT 2220 Hospitality Human Resource Mgmt
HFT 3444 Hospitality Information Systems
HFT 3600 Legal Environment in Hospitality
Choose any two courses from the following: 6 hrs
HFT 3700 Tourism Management
HFT 3261 Restaurant Management
HFT 3273 Principles of Resort Time Sharing
HFT 4755 Theme Park & Attractions Mgmt
HFT 2750 Meetings/Conv/Expo Industry
FSS 2221C Quantity Food Preparation
HFT 2254 Lodging Operations

Other Requirements
- A minimum GPA of 2.0 in all courses used to satisfy the minor.
- At least 12 credit hours used in the minor must be earned at UCF within the School.
- No credit by exam (TSD, Military credit) may be used in the minor.
- It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from the course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
- Final exams will be given during Final Exam Week only.
- Internship or Independent Study credit cannot be used toward the minor.

HUMANITIES: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
TBA, 407-823-2273

A multicultural minor focusing on the art, literature, philosophy, and religion of various world cultures. This minor is intended to provide a limited, yet substantive, introduction to 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 hours
Humanities Foundations: 6 hrs
Select two courses:
- HUM 3431 Ancient Humanities
- HUM 3435 Medieval Humanities
- HUM 3255 Modern Humanities
- HUM 3251 Contemporary Humanities

Humanistic/Religious Traditions: 6 hrs
Select two courses:
- HUM 3401 Asian Humanities

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.

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 hrs
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 hrs
Select one additional course from the above list or from the following:
HUM 3320 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
Office of Student Support, BA 240
Richard Ajayi, 407-823-5908

Credit Hour Requirements: 18 hours
Required Courses: 9 hrs
GEB 4361 Business in the International Env
ECS 4003 Comparative Economic Systems
MAN 4600 International Management
FIN 4604 International Financial Management

Restricted Elective: (3 hrs)
MAR 4156 International Marketing

Electives: (6 hrs)
ANT 3212 People of the World
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.
- 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 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
K. Phillip Taylor, 407-823-2681
Credit Hour Requirements 21 hours
Required Courses (6 hrs)
COM 3311 Communication Research Methods
SPC 3301 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
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 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 certificate.

ITALIAN: Minor
College of Arts and Sciences
Foreign Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
http://www.cas.ucf.edu/italianlanguage@ucf.edu
C. E. Stebbins, 407-823-2472
Credit Hour Requirements 18 hours
Restricted Electives 6 hours
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.

JAZZ STUDIES: Certificate
College of Arts and Sciences
Department of Music, CNH 205
http://www.cas.ucf.edu/music/
K. Koons, 407-823-2869
This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.M. Music degree, provided that the student works with an advisor in the program.

Required Courses
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: Minor, Certificate
College of Arts and Sciences
Judaic Studies Program, CNH 201
http://www.cas.ucf.edu/judaic_studies
E-mail: judaicst@ucf.edu
Moshe Pelli, 407-823-5039
The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Foreign Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women’s Studies Programs. Students who desire to minor in Judaic Studies are encouraged to meet with the program director. The certificate in Judaic Studies will be awarded to students completing 15 credits in Judaic Studies.
Credit Hour Requirements 18-26 hours
Required Courses (or proficiency) (0-8 hrs)
HBR 1120 Elementary Modern Hebrew Lang and Cult I
HBR 1121 Elementary Modern Hebrew Lang and Cult II
Restricted Upper Division Electives (18 hrs)
Jewish History
JST 3144 Dead Sea Scrolls
JST 3401 The Jewish People I
JST 3402 The Jewish People II
JST 3550 Introduction of Modernism into Judaism
JST 3701 History of the Holocaust
Bible
JST 3120 Jewish Scriptures
JST 3125 The Book of Job
JST 3126 Romantic Love in the Bible
JST 3144 Dead Sea Scrolls
Literature
JST 3100 The Hebrew Creative Mind
JST 3751 Literature of the Holocaust
Culture
JST 3450 Modern Jewish Experience
JST 3820 Modern Hebrew Culture
JST 3810 The Jewish National Movement
Language
HBR 2200 Intermediate Modern Hebrew Language and Culture I
HBR 2201 Intermediate Modern Hebrew Language and Culture II
HBR 3410 Conversational Israeli Hebrew
Other courses, including special topics, with the approval of the Director

Other Requirements
A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
At least 12 hours used in the minor must be earned at UCF
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor.

LANGUAGE DEVELOPMENT AND DISORDERS: Certificate
College of Health and Public Affairs
Department of Communicative Disorders,
HPA2, Suite 101
http://www.cohpa.ucf.edu/comdis
UG Coordinator, 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, pediatrics, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines
related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

**Credit Hour Requirements** 13 hours

**Required Courses**
- LIN 3716 Language Development: Birth through 8 years 3 hrs
- LIN 3717 Language Development: 9 through 18 years 3 hrs
- LIN 4711 Language Analysis 3 hrs
- LIN 4711L Language Analysis Lab 1 hr
- SPA 4400 Language Disorders Across the Life Span 3 hrs

**Other Requirements**
- A minimum grade of "C-" (1.75) is required in each course.
- Grades less than "C-" (1.75) are not accepted.
- At least 10 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

**LATIN AMERICAN AREA STUDIES: Minor**

**College of Arts and Sciences**

**Sociology & Anthropology, PH 403**

achase@mail.ucf.edu

Arlen Chase, 407-823-2124

The minor provides students with a background that can be applied to careers in teaching, government, business, non-profit organizations, as well as international, inter-American and Peninsular Affairs.

**Credit Hour Requirements** 18 hours

**Admission Requirement**
Admission by interview with the Program Director

**Required Skills**
Students must complete the introductory language sequence in Spanish or show proficiency

**Restricted Electives** (18 hrs)
18 semester hours taken from the following, with 12 of the hours in three different disciplines and at least 6 hours in one. Courses must be selected in consultation with the Director

**Anthropology:**
- ANT 3164 The Inca
- ANT 3168 Maya Archaeology (or ANG 6168)
- ANT 3332 People and Cultures of Latin America
- ANT 3363 Mesoamerican Archaeology
- ANT 4308 Gender Issues in Latin America
- ANT 4824 Advanced Archaeological Fieldwork
- ANT 4810C Seminar in Laboratory Analysis
- SPN 4634 Contemporary Maya
- SPN 5167 Maya Hieroglyphics
- SPN 5228 Maya Iconology

**Art:**
- ARH 4655 Meso American Art

**Economics:**
- ECO 2003 Macroeconomics
- ECO 3703 International Economics
- ECO 4701 The Global Economy
- ECO 4XXX Mexican Economy

**Foreign Language:**
- SPN 2230 Intermediate Spanish Lang & Civ I
- SPN 2231 Intermediate Spanish Lang & Civ II

**History:**
- EHU 3315 History of Modern Spain
- LAH 3130 Latin American History I
- LAH 3200 Latin American History II
- LAH 3400 History of Mexico and Central America
- LAH 3470 History of the Caribbean
- LAH 3597 Latin America’s Colonial Legacy: The Maya

**Political Science:**
- CPO 4030 Comparative Latin American Politics
- INR 4243 International Politics of Latin America
- CPO 3032 Politics of Developing Areas
- CPO 5324 Contemporary Politics in the Maya Region

**Required Thesis**
A thesis (or comparable proof of writing skills) must be approved before graduation.

**Other Requirements**
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.

**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: dslaughter@mail.ucf.edu

**Credit Hour Requirements** 21 hours

**Required Courses**
- PLA 3013 Law and the Legal System
- Restricted Upper Division Electives (15 hrs)
- 15 semester hours of law studies courses selected with the aid of an advisor.
- Restricted Electives (3 hrs)
- 3 semester hours of law-related courses selected with the aid of an advisor.

**Prerequisites**
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship 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**
- A minimum UCF GPA of 3.3

**Credit Hour Requirements** 18 hours

**Required courses**
- JOU 2100C News Reporting 3 hrs
- JOU 3510 Magazine Publishing 3 hrs
- JOU 4224 Magazine Editing and Production 3 hrs
- Restricted Upper Division Electives (9 hrs)
- ENC 3310 Magazine Writing I
- JOU 3200 Editing I
- JOU 3202 Editing II
- JOU 4300 Feature Writing
- JOU 4308 Freelance Writing
- JOU 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.

**MINAS, Certificates and Study Abroad**

**SYSTEMS: Minor**

**College of Business Administration**

**Department of MIS, BA 309**

407-823-3174

**Credit Hour Requirements** 18 hours

**Prerequisite courses**
- CGS 2100C Computer Fundamentals for Business or
- CGS 1060C Intro to Computer Science (or equivalent)
- MAC 1105 College Algebra or
- MGF 1106 Finite Mathematics

**Required Courses** (minimum 15 hrs)
- ISM 3011 Management Information Systems 3 hrs
- ISM 3214 Database Management Systems in Business 3 hrs
- ISM 3482 Essentials of Electronic Commerce 3 hrs
- ISM 3013 Introduction to Information Systems Management 3 hrs
Minors, Certificates and Study Abroad

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**2004-2005 Undergraduate Catalog**

**MARKETING: Minor**
(Open to Business and Non-Business Students)

**College of Business Administration**
Department of Marketing, BA 353

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
<th>18 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>(3 hrs)</td>
</tr>
<tr>
<td>MAR 3023 Marketing</td>
<td></td>
</tr>
<tr>
<td>Restricted Electives</td>
<td>(12-15 hrs)</td>
</tr>
</tbody>
</table>

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 or
- MAR 4724 Strategic Foundations in Global e-Business
- MAR 4231 Retailing Management
- MAR 4711 Sport Marketing
- MAR 4712 Healthcare Marketing
- MAR 4803 Marketing Management
- MAR 4804 Marketing Strategy
- MAR 4841 Services Marketing
- *Requires prerequisites in addition to MAR 3023

**Restricted Non-Marketing Elective** (0-3 hrs)
Three hours of coursework may be chosen outside of marketing from the list below. However, other courses outside Marketing will also be considered—approval by petition to the Department.

- ADV 3000, ANT 3640, COM 3011C, COM 3311, COM 3120, COM 3110, ENC 3211, EXP 3404, HSA 3111, PHI 3803, PPE 3003, PSY 3214C, RTV 3000, SOP 3004, SPC 3301, SPC 4331, SPC 4426, STA 4102, SYA 4300C, MAN 4724, Strategic Foundations in Global e-Business

**Other Requirements**
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

**MARKETING: Certificates**
Department of Marketing, BA 353

- **Restricted to Marketing majors** 9 hours
  Certificates will be awarded only at the time of degree completion.

**Certificate in Selling and Sales Management**
- MAR 3403 Sales Force Management
  **MAR 4941** (internship in sales-related position)
  One additional Marketing elective

**Certificate in Retailing Management**
- MAR 4231 Retailing Management

**Other Requirements**
- Courses in the MIS major may substitute for required and elective courses with approval of department chair.
- A grade of "C" (2.0) is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**MARKETING: Minor**
(Open to Business and Non-Business Students)

**College of Business Administration**
Department of Marketing, BA 353

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
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<tbody>
<tr>
<td>Required Courses</td>
<td>(15 hrs)</td>
</tr>
<tr>
<td>Select one complete Calculus sequence</td>
<td></td>
</tr>
<tr>
<td>MAC 2311, MAC 2312, MAC 2313 or</td>
<td></td>
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<tr>
<td>MAC 2281, MAC 2282, MAC 2283</td>
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<tr>
<td>MAP 2302 Differential Equations</td>
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</tbody>
</table>

**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)**
MINOR REQUIREMENTS

**MILITARY SCIENCE: Minor**

College of Engineering and Computer Science

Army ROTC, BLDG 501

LTC John J. Ruzich, 407-823-2430

**Credit Hour Requirements** 19 hours

**Required Courses**
- MSL 3201 Leadership and Problem Solving 3 hrs
- MSL 3201L Leadership and Problem Solving Laboratory 1 hr
- MSL 3202 Leadership and Ethics 3 hrs
- MSL 3202 Leadership and Ethics Laboratory 1 hr
- MSL 4301 Leadership and Management 3 hrs
- MSL 4301L Leadership and Management Laboratory 1 hr
- MSL 4302 Officership 3 hrs
- AMH 4302L Officer Leadership Laboratory 1 hr

Select one of the following:
- AMH 3541 U.S. Military History to 1900 3 hrs
- AMH 3547 U.S. Military History since 1900 3 hrs

**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

**Credit Hour Requirements** 21 hours

**Required Courses**
- CP 3403 Politics of the Middle East 3 hrs
- HUM 3419 Islamic Thought and Culture 3 hrs
- ASH 3223 The Modern Middle East 3 hrs

**Restricted Electives** 12 hrs
- ASH 3222 Islam and Its Empires
- ASH 3227 The Arab-Israeli Conflict
- CPO 4710 Women in Comparative Politics
- HBR 3220 Intermediate Modern Hebrew I
- HUM 3553 Moses, Jesus and Muhammad
- JST 3401 The Jewish People I
- JST 3402 The Jewish People II
- JST 3820 Modern Hebrew Culture
- PHH 3200 Medieval Philosophy
- REL 2300 World Religions

**Other Requirements**
- A successful audition on the student's voice or principal instrument.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor**

College of Health and Public Affairs

Department of Molecular Biology and Microbiology, HPA2 335, 407-823-5932

http://www.cohpa.ucf.edu/molec.bio

**Credit Hour Requirements** 30 hours

**Required Courses**
- BSC 2010C General Biology 4 hrs
- BSC 2020C General Zoology 4 hrs
- PCB 3020C General Microbiology 5 hrs
- PCB 3233 Immunology 3 hrs
- PCB 3233L Immunology Laboratory 1 hr
- PCB 3523 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- RSC 3404C Quantitative Biological Methods 4 hrs

**Restricted Electives**
- MTG 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)

**Other Requirements**
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship 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

TBA, 407-823-2869

**Credit Hour Requirements** 21 hours

**Required Courses**
- MUT 1241 Ear Training and Sight Singing IA 1 hr
- MUT 1242 Ear Training and Sight Singing IB 1 hr
- MUS 1010 Music Forum (4 semesters) 0 hrs
- BSC 2010C General Biology 4 hrs
- PCB 3523 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- RSC 3404C Quantitative Biological Methods 4 hrs

**Other Requirements**
- A successful audition on the student’s voice or principal instrument.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (1.75) are not accepted.
- At least 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.
NONPROFIT MANAGEMENT: Certificate
College of Health & Public Affairs
Department of Public Administration, HPA2 238
http://www.cohpa.ucf.edu/pubadm/
Mary Ann Feldheim, 407-823-2604
The Certificate program will provide basic knowledge in nonprofit management, resource development, volunteer management, strategic planning, and program evaluation for those students interested in nonprofit sector management as a career.

Credit Hour Requirements

Required Courses (15 hrs)

- PAD 4144 Nonprofit Organizations 3 hrs
- PAD 4148 Volunteer Management 3 hrs
- PAD 4147 Resource Dev. in the Nonprofit Sector 3 hrs
- PAD 4325 Program Eval. Public & Nonprofit Org 3 hrs
- PAD 4153 Strategic Planning & Implementation 3 hrs

Restrictive Elective Course (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.
- At least 15 hours used in the program must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the program.

NORTH AMERICAN INDIAN STUDIES: Minor
College of Arts and Sciences
Department of Sociology and Anthropology, PH 403
David E. Jones, 407-823-2227
The North American Indian Studies minor will develop a more sophisticated understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

Minor Requirements:
- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

Credit Hour Requirements (18 hours)

Required Courses (15 hrs)

- ANT XXXX Survey of the North American Indians 3 hrs
- ANT 4912 Directed Thesis Research 3 hrs

Restricted Electives (3 hrs)
Courses used in the minor must be taken in at least two departments. Select four courses from the following list:

- ANT 3345 Religions of the North American Indians 3 hrs
- ANT 3313 Indians of the Northeast Woodlands 3 hrs
- ANT 3319 Indians of the Southeastern United States 3 hrs
- ANT 3319 Indians of the Northeast Woodlands 3 hrs
- AMH 3441 History of the Frontier: Eastern America 3 hrs
- AMH 4110 Colonial America 3 hrs
- AMH 4112 The Atlantic World 3 hrs
- AML 3640 Native American Literature 3 hrs
- ANT 4153 North American Archaeology 3 hrs
- SYD 3752 Modern Law in Indian Country 3 hrs
- SYD 3751 North American Indian Women Today 3 hrs
- SYD 3750 Contemporary Social Issues and North American Indians 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

ORGANIZATIONAL COMMUNICATION: Minor
College of Arts and Sciences
Nicholson School of Communication, COM 258
communication@ucf.edu
K. Phillip Taylor, 407-823-2681

Credit Hour Requirements (21 hours)

Required Courses (6 hrs)

- COM 3120 Organizational Communication 3 hrs
- COM 3311 Communication Research Methods 3 hrs

Restricted Upper Division Electives (15 hrs)

- COM 331C Communication and Human Relations
- COM 3110 Business and Professional Communication
- SPC 3429C Group Interaction and Decision-Making
- COM 4461 Intercultural Communication
- COM 4462 Conflict Management

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used toward the minor with prior approval.

PHILOSOPHY: Minor
College of Arts and 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 hours)

Philosophical Foundations: (9 hrs)
Select one course from each of the following groups:

Reasoning

- PHI 2011 Philosophical Reasoning
- PHI 2101 Critical Thinking
- PHI 2100 Formal Logic I

Ethics

- PHI 3670 Ethical Theory

Knowledge

- PHI 3320 Philosophy of Mind
- PHI 4341 Ways of Knowing
- PHI 4300 Theories of Knowledge

Disciplinary and Interdisciplinary Knowing (3 hrs)
Select one course from those listed above or another upper division Philosophy course

- PHM 3400 Philosophy of Law
- PHI 3700 Philosophy of Religion
- PHI 4400 Philosophy of Science
- PHI 4420 Philosophy of Social Science
- PHI 3451 Philosophy of Psychology
- PHI 3800 Aesthetics

Applications (6 hrs)
Select two courses from those listed above:

- HUM 4330 Performance Theory
- PHI 2847 Logic and Ethics
- PHI 3022 Sexuality, Gender & Philosophy
- PHI 3033 Philosophy, Religion, and the Environment
- PHI 3601 Practical Wisdom
- PHI 3638 Ethical Issues in the 21st Century
- PHI 3640 Environmental Ethics
- PHI 3941 Philosophy Practicum
- PHI 4921 Philosophy in the News
- PHI 4633 Ethics and Biological Science
- PHI 4804 Critical Theory
- PHM 3100 Freedom and Justice
- PHM 4223 Feminist Theory
- PHM 4231 Environmental Philosophy
- REL 3111 Religion and Philosophy through Film

Upper Division Restricted Elective (3 hrs)
Select an additional course from those listed above or another upper division Philosophy course
Minors, Certificates and Study Abroad

POLITICAL SCIENCE: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://www.politics.ucf.edu

Ralph Llewellyn, 407-823-2325

Required Courses (11 hrs)

- POL 2410 Introduction to Politics 3 hrs
- POL 2481 Introduction to Comparative Politics 3 hrs
- POL 3420 Campaigning, Political Organizations, and Elections 3 hrs
- POL 3421 Political Parties 3 hrs
- POL 3422 Public Opinion and Political Behavior 3 hrs

Credit Hour Requirements 20 hours

Required Courses:
- POL 2410 Introduction to Politics 3 hrs
- POL 2481 Introduction to Comparative Politics 3 hrs
- POL 3420 Campaigning, Political Organizations, and Elections 3 hrs
- POL 3421 Political Parties 3 hrs
- POL 3422 Public Opinion and Political Behavior 3 hrs

Restricted Upper Division Electives (9 hrs)

Selected from upper-level Political Science 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/PRELAW: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://www.politics.ucf.edu

Ralph Llewellyn, 407-823-2325

Internship, Co-op, 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 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 approval by the Chair.

NO CREDIT BY EXAM (TSD, MILITARY CREDIT) MAY BE USED.

PSYCHOLOGY: Minor
College of Arts and Sciences
Psychology Department, PH 302
http://www.psych.ucf.edu/

R. Tucker, 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 hours

Required Courses (10 hrs)

- PSY 2012 General Psychology 3 hrs
- STA 2044 Principles of Statistics 3 hrs
- STA 2024C Statistical Methods I 3 hrs
- STA 3214C Research Methods in Psychology 3 hrs

Restricted Electives (12 hrs)

- 12 hours of Psychology courses

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Maintain a minimum GPA of “C” (2.0) in the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

PUBLIC ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Public Administration, HPA 238
Dr. Ronnie L. Koresce, 407-823-5732

E-mail: rkorosec@mail.ucf.edu

Credit Hour Requirements 18 hours

Required Courses (15 hrs)

- PAD 3003 Public Admin in American Society 3 hrs
- PAD 4034 The Administration of Public Policy 3 hrs
- PAD 4104 Administrative Theory 3 hrs
- PAD 4204 Fiscal Management 3 hrs
- PAD 4414 Public Personnel Administration 3 hrs
- PAD 4720 Survey Research in Public Admin 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 (“C”) to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
REAL ESTATE: Minor
College of Business Administration
Department of Finance, BA 409
http://www.bus.ucf.edu/finance
philosophy@ucf.edu

Credit Hour Requirements 18 hours
Prerequisite courses:
ACG 2011 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics

Required Courses 9 hours
FIN 3403 Business Finance 3 hrs
REE 3043 Fundamentals of Real Estate 3 hrs
REE 3433 Real Estate law 3 hrs

Electives (select three of the following) 9 hours
REE 4103 Real Estate Finance 3 hrs
REE 4303 Real Estate Investment Analysis 3 hrs
REE 4732 Real Estate Development 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) are not accepted.
- At least 9 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.

RELIGIOUS STUDIES: Minor
College of Arts and Sciences
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
TBA, 407-823-2273

The religious studies minor provides a limited yet coherent range of courses which introduce the student to a range of religious institutions and ideas. Courses are drawn from the departments of Anthropology & Sociology, Art, English, History, Judaic Studies, Philosophy, Political Science, and Psychology, and are to be selected in consultation with the Religious Studies advisor.

Credit Hour Requirements 21 hours
Required Courses (3 hrs)
REL 2880 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) are not accepted.
- At least 9 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 without prior approval by the Director.

RUSSIAN AREA STUDIES: Minor
College of Arts and Sciences
Liberal Studies Office, CNH 201
http://www.cas.ucf.edu/liberal_studies
ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Credit Hour Requirements 19 hours
Language requirement
RUS 1121 Elementary Russian Lang & Civ I (completion of the course or credit by examination) (4 hrs)

Required Courses 9 hrs
EUH 4571 History of Russia to 1801
CPO 4643 Government and Politics of Russia

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- Except for the foreign language requirement, no credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SECURITY MANAGEMENT: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
Jerome Randall, 407-823-2603
E-mail: jrandall@mail.ucf.edu

The security industry is rapidly growing in the state of Florida and in the nation. This area is in need of qualified, innovative managers and leaders to meet the demands of the twenty-first century. A student in this certificate program will gain experience in risk assessment, legal issues, and contemporary approaches to security management.

Credit Hour Requirements 15 hours
Required Courses (12 hrs)
CJT 3804 Security Administration 3 hrs
CJT 3803 Security Management 3 hrs
CJT 4843 Risk Management 3 hrs
CJ 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
PLA 5937 Seminar in Contemporary Legal Problems 3 hrs
PLA 3273 Law of Torts 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Credit Hour Requirements 21 hours
Required Courses (3 hrs)
One method course, selected from the three immediately below
POS 3703 Scope and Methods of Political Science
PSY 3214 Research Methods in Psychology
SYA 4300C Research Methods

Restricted Electives (18 hrs)
Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.
Communication
Economics
Political Science
Public Administration
Psychology
Sociology & Anthropology

Other Requirements
- Students must earn a grade “C” or above (2.0) in each course used to satisfy the minor.
Minors, Certificates and Study Abroad

- 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.

SOCIOLOGY: 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
Required Courses 18 hours
SyG 2000 General Sociology (3 hrs)

Restricted Electives
2000-4000 level Sociology courses (3 hrs)
3000-4000 level Sociology courses (12 hrs)

Other Requirements
- Earn a minimum GPA of at least 2.0 in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- 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 407-823-9208

In response to the needs of the Central Florida space community, UCF offers a multidisciplinary Minor in Space Studies. It is intended for students of all disciplines and includes courses from aerospace engineering, electrical engineering, environmental engineering, instructional programs, physics, physical education, and political science.

Credit Hour Requirements
Required Courses 21 hours
AST 2002 Astronomy (3 hrs)
EGN 2615C ST: Space Science and Technology (3 hrs)
GEO 4131C Remote Sensing of the Environment (3 hrs)
EAS 3010 Fundamentals of Aerospace Flight (12 hrs)
EAS 3101 Fundamentals of Aerodynamics
EAS 3330 Space Systems Concepts
EAS 4505 Orbital Mechanics
EGN 4830 Telecommunications
GEO 1200 Physical Geography
GEO 2370 Resources Geography
IRN 4404 Space Law
PET 4351 Applied Exercise and Human Physiology
PUP 3508 Space Studies
PUP 4510 Space Policy
SCE 5825 Space Science for Educators

Other Requirements
- Formal declaration of the minor should occur before nine credit hours have been completed.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

Statutes, Certificates and Study Abroad

- Select six upper division courses in Spanish, including the 3000-level advanced grammar (SPAN 3300), advanced oral communication (SPAN 3760), and composition courses (SPAN 3420).
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, Independent Study credit cannot be used toward the minor without departmental permission.

STATISTICS: Minor
College of Arts and Sciences
Statistics Department, CC II 212
http://www.cas.ucf.edu/statistics
statistics@ucf.edu
L. Hoffman, 407-823-5525

Credit Hour Requirements
Required Courses 18 hours
STA 2023 Statistical Methods I (9 hrs)
STA 3032 Probability and Statistics for Engineers (3 hrs)
STA 4163 Statistical Methods II (3 hrs)
STA 4164 Statistical Methods III (3 hrs)

Restricted Upper Division Electives
STA 3xxx-4xxx courses (9 hrs)

Other Requirements
- A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, 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, 407-823-5791
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 vocational 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
Entrance requirements
Junior standing.

Required courses
ADE 4382 Teaching Adult Learners
EVT 4368 Advanced Teaching Techniques
in Vocational Education
EVT 3062 Professional role of the Vocational Teacher

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Minors, Certificates and Study Abroad

EVT 3367 Evaluation in Vocational Education 3 hr
EVT 4169 Curriculum Development for Industry Training 3 hr
EVT 4065 Principles and Practices in Vocational Education 3 hr

Other requirements
- A minimum of 4 courses of the 6 required must be completed at UCF within the Program of courses listed above.
- A grade of “C” (2.0) or better must be achieved in each course used for this Minor.
- Internship, Co-op, or Independent Study credit cannot be used 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 hours
Suggested Prerequisite Courses
- MAC 1105 College Algebra
- GEP Cultural and Historical Foundations

Restricted Upper Division Electives
A minimum of nine hours must be taken from the CET/EST/ETI prefix courses listed below:
- CET 3010 Introduction to Information Technology
- EST 3222 Introduction to Photonics
- ETI 3671 Technical Economic Analysis
- ETI 4205 Applied Logistics
- ETI 4635 Technical Administration
- ETI 4700 Occupational Safety
- ETI 4836 Space Systems Technology
- GEO 2370 Resources Geography
- LIT 3313 Science Fiction
- LIT 4433 Survey of Technical and Scientific Literature
- PUP 3203 Environmental Politics
- PUP 4503 Government and Science
- PUP 4510 Space Policy

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF with 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 hours
Entrance Requirement
A successful interview and audition or portfolio review

Required Courses (27 hrs)
- THE 2000 Theatre Survey 3 hrs
- THE 2090* Theatre Production/Performance I 1 hr
- THE 3303 Play Analysis 3 hrs
- THE 2931* Theatre Production/Performance II 1 hr
- THE 3092* Theatre Production/Performance III 1 hr
- THE 3110 Theatre History I 3 hrs
- THE 3111 Theatre History II 3 hrs
- THE 2205 Dramatic Literature I 3 hrs
- THE 2271 Performance Studies 3 hrs

Other Requirements
- Participate on a minimum of one departmental production during both the Fall and Spring 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 examined at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

TRANSLATION AND INTERPRETATION: Certificate
College of Arts and Sciences
Foreign Languages and Literatures, CNH 505
http://www.cas.ucf.edu/forlang
foreignlanguage@ucf.edu
Maria Redmon, CNH 512, 407-823-5738
Email: mredmon@mail.ucf.edu

Credit Hour Requirements 18 hours
Required Skills
- Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses (12 hours)
- SPT 3800 Spanish Translation and Interpretation 3 hrs
- SPT 3805 Spanish Trans & Interp for Mass Com 3 hrs
- SPT 3809 Medical Spanish Trans/Interp 3 hrs
- SPT 3831 Spanish Legal Trans/Interp 3 hrs

Restricted Upper Division Electives (6 hours)
- SPN 3533 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.

URBAN AND REGIONAL PLANNING: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. K. Tom Liou, 407-823-2604
Email: kliou@mail.ucf.edu
Fax: 407-823-5651

Credit Hour Requirements 21 hours
Required Courses (21 hrs)
- PAD 3000 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
http://www.cas.ucf.edu/womensstudies

College of Arts and Sciences

Women's Studies Program, CNH 201H
L. M. Logan, 407-823-6502.
Email: womenst@ucf.edu

The 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 on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments of History, Languages, Literature, Political Science, Psychology, Sociology, Anthropology, and Theatre.

Credit Hour Requirements

Required Courses

- WST 3015 Introduction to Women's Studies (3 hrs)
- Select one course from the Feminist Theory group:
  - PHM 3123 Feminist Theories (3 hrs)
  - LIT 4954 Advanced Feminist Theories (3 hrs)

Upper Division Electives

- Select two courses in each of two areas listed below:

  Women's History
  - ANH 3561 Women in American History I (3 hrs)
  - ANH 3562 Women in American History II (3 hrs)
  - ASH 4304 Women in China (3 hrs)
  - EUH 4610 Women in European History (3 hrs)

  Women's Wellness
  - NUR 4335 Women's Health Issues (3 hrs)
  - PDM 4205 Self Defense for Women and Men (3 hrs)
  - SOP 2772 Sexual Behavior (3 hrs)
  - SOP 3742 Psychology of Women (3 hrs)

  Women and Social Policy
  - ANT 3302 Sex, Gender and Culture (3 hrs)
  - ANT 4308 Women and Gender Issues in Latin America (3 hrs)
  - CCJ 4610 Women and Crime (3 hrs)
  - CCJ 4581 Domestic Violence and Justice System (3 hrs)
  - CPO 4710 Women and Comparative Politics (3 hrs)
  - INR 4085 Women, Gender, and Globalization (3 hrs)
  - PUB 4333 Women and Public Policy (3 hrs)
  - SYO 3800 Sex Roles in Modern Society (3 hrs)
  - SYO 4100 Family Trends (3 hrs)
  - SYP 4810 Women in Contemporary Society (3 hrs)

* Students may be allowed to take one course from a list of restricted courses.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- No credit by exam (TSD, Military credit) may be used.
- 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.

STUDY ABROAD: Programs
http://www.international.ucf.edu

College of Arts and Sciences

Department of Foreign Languages and Literatures,
foreignlanguage@ucf.edu

Colburn Hall 523
Consueto 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 Luxembourg 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 culture. 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.

Dominica, Guadeloupe and Martinique
The volcanic islands of Dominica, Guadeloupe and Martinique are surrounded by beautiful beaches in the Caribbean. This program is designed for students interested in the French language and culture, the Caribbean, the Creole cultures as well as the African Diaspora.
as areas of study. All students take a combination of one culture course and a language course or one study abroad seminar for a total of 6/7 credit hours. Weekend excursions to neighboring islands are part of this Study Abroad experience. This program takes place during Summer B term.

**Amboise, La Rochelle, France**

Amboise is a quiet community of 12,000 residents, known for the time that Italian artist Leonardo da Vinci spent in Le Clos Luce, a pink brick manor in Amboise’s center. LaRochelle, on the Atlantic coast, prides itself on 800 years of seafaring history. Courses are offered at the intermediate and advanced levels and students earn 6/9 credit hours. Weekend excursions are planned to various points of interest. This program takes place during Summer A term.

**Urayasu, Japan**

Urayasu, Chiba Prefecture, is located to the east of Tokyo. This former fishing village on the Bay of Tokyo is now a fast-growing suburb of Tokyo with a population of approximately 135,000. This program offers elementary, intermediate and advanced Japanese language and culture courses at Meikai University. All students will take a language course, and conversation course and a culture course. This program takes place during Summer B term.

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**ENGLISH STUDY ABROAD: Program**

**College of Arts and Sciences**

**Department of Art, Visual Arts Building, 117**

**Edinburgh, Scotland**

**Fine Arts**

Students register for ART 4906 (4 credits) and enroll in two consecutive weeklong courses at the Edinburgh School of Art. Edinburgh is a small friendly city with a wealth of Historic and cultural attractions that inspire the creative spirit.

**Mexico City, Mexico**

**Art History**

In Mexico, the clash of the Spanish and the Aztec civilizations a half-millennia ago created a tapestry of 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.

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**HEALTH STUDY ABROAD**

**College of Health and Public Affairs**

**School of Social Work**

**Health and Public Affairs Building, 204**

**Pretoria, South Africa**

South Africa is rapidly emerging as a leading force on the African continent and an active player on the global stage. Undoing the years of apartheid and worldwide sanctions is a significant undertaking that is accompanied by a myriad of social, political and economic concerns. Johannesburg and Pretoria are the ideal backdrop against which to study the developing South Africa. Graduate and undergraduate students earn 3 credits. Program consists of morning classroom lectures and discussions followed by afternoon field trips that compliment each morning’s class topic.

Several programs combine undergraduate and graduate coursework in a more seamless educational experience for students, reducing the time spent working on both degrees and providing a challenging educational experience to outstanding undergraduates. These combined bachelor’s/master’s (3+2 or 4+1) programs usually take five years of work to earn both degrees.

While students are classified as undergraduate students, they are subject to undergraduate policies. Similarly, those who are classified as graduate students are subject to graduate policies.
ECONOMICS ACCELERATED
UNDERGRADUATE-GRADUATE PROGRAM (B.A./M.A.A.E.)

College of Business Administration
Department of Economics
Email: rpennington@bus.ucf.edu, BA2 303B
407-823-2640

The accelerated Program allows outstanding Economics students to earn a B.A. degree and a M.A.A.E. degree in as few as five years. Students earn fifteen hours of graduate credit toward the M.A.A.E. while still in undergraduate, and then earn an additional fifteen credits after earning the B.A. degree.

Admission Guidelines
- Acceptance to the university does not constitute admission to the accelerated program.
- An additional application to the program must be submitted, and the student accepted, through the Economics Department. Admission is not automatic.
- Apply to the program in the fifth semester of classes. See the graduate catalog for specific admission requirements.
- http://www.grad.udu.edu/currentGradCatalog
All applicants must meet the following criteria:
- A GPA of 3.25 or higher after completion of 80 credit hours
- A score of 1260 on the SAT or 28 ACT. If students do not meet this criterion, they must submit a GMAT score of 500 or above.
- A TOEFL of 233 (computer test).

Undergraduate Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval.
- Independent study forms must be approved by the Economics advisor prior to taking an independent study for use in the program.
- Students must earn at least a “C” (2.0) in each restricted elective course.
- Students must consult with an Economics advisor in order to prepare an application.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Graduate Degree Requirements
The accelerated Program involves a minimum of 135 credits for completion of both the B.A. and M.A.A.E. degrees.
- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students take fifteen graduate credit hours during their senior year which substitute for 3000- or 4000- level courses as part of the program requirements.
- Students pay graduate tuition and fees for all graduate credit hours.
- All requirements of the undergraduate and graduate degree programs must be fulfilled.
- Students should consult with a program advisor before applying for the program.
- Approval for course substitutions and for graduate courses must be given by the Economics advisors.
- The B.A. will be awarded after completing all the requirements for that degree in the undergraduate program.

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra 3 hrs
      Select CGS 2100C Computer Fundamentals for Business 3 hrs
   D. Social Foundations
      Select ECO 2131 Macroeconomics or 3 hrs
      ECO 2023 Microeconomics
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs
2. Common Program Prerequisites (3 hrs)

3. Required Undergraduate Major Courses (15 hrs)
   ECO 3101 Intermediate Price Theory 3 hrs
   ECO 3203 Aggregate Econ. Conditions Analysis 3 hrs
   ECO 3401 Quantitative Business Tools I 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   ECO 4451 Research Methods in Economics 3 hrs

4. Restricted Elective (3 hrs)
   Select any 3000-4000 level economics elective other than those required
   3 hrs

5. Courses shared BA/MAAE (15 hrs)
   ECO 6403 Mathematical Economics 3 hrs
   ECO 6118 Microeconomics Analysis 3 hrs
   ECO 6206 Aggregate Econ. Conditions & Analysis 3 hrs
   ECO 6424 Econometrics 3 hrs
   ECO 6000 Economics Elective 3 hrs
   * 15 hours can count towards both BA and MAAE

6. Required Minor (18 hrs)
   Completion of a minor in one of the following:
   Computer Science, History, Mathematics, Statistics, Political Science, Psychology, or Sociology.

7. Program Exit Requirements
   - A minimum grade of 3.0 is required for all graduate courses.
   - A minimum GPA of 2.5 is required for all courses taken in the major and minor.

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)

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

Total Semester Hours Required (B.A.) 120 hours

11. Courses taken toward MAAE (9 hrs)
    Six to nine additional hours of 6000 level economics electives.
    A maximum of three hours of an approved non-economic elective may substitute for an economics elective. Select from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering.

12. End of Program Option: (6 hrs)
    All candidates for the M.A. in Applied Economics degree must complete an end-of-program option. This requirement can be met by any of the following three equivalent options: 1) Thesis option, 2) Graduate internship option, or 3) All course work option.
    See the graduate catalog for a detailed description of the options.

Total Semester hours (BA/MAAE) 135 hrs

The baccalaureate degree will be awarded when program requirements for the BA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students.
Accelerated Undergraduate-Graduate Programs

students. The MAAE will be awarded on completion of the total pro-
gram of study.

The following will be waived for this joint degree program:
- The limit of nine hours to be shared between undergraduate and
  graduate programs
- Undergraduate students taking 6000 level courses must be within
  nine hours of graduation
- Undergraduate students taking 6000 level courses must not reg-
 ister for more than a total of twelve hours in that semester

Transfer Notes:
- Grades below "C" (2.0) are not accepted.
- Courses taken at community college do not substitute for Upper
  Division courses.
- Courses transferred from private and out-of-state schools must be
  equivalency credit. The student must provide all supporting
  information.

Acceptable substitutes for Common Program Prerequisites if taken
prior to transferring to UCF:
- ECO 2013 and ECO 2023 are prerequisites for subsequent eco-
  nomics courses and will need to be taken.

ECONOMICS ACCELERATED
UNDERGRADUATE-GRADUATE
PROGRAM (B.S.B.A./M.A.A.E.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu/economics

Email: rpennington@bus.ucf.edu, BA2 303B
407-823-2640

Admission Guidelines
- Completion of the UCF General Education program or an AA
  degree from a Florida Public Community College
- See Common Program Prerequisites
- 3.25 GPA after completion of 80 credit hours
- 1260 SAT or 28 ACT desired. If students do not meet this criteri-
  on, they must submit a GRE or GMAT score
- For 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 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 9 hrs
      Select MAC 1105 College Algebra 3 hrs
      Select CGS 2100C Computer Fundamentals for Business 3 hrs
   D. Social Foundations 3 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better.
   ACG 2011 Principles of Financial Accounting 3 hrs
   ACG 2071 Principles of Managerial Accounting 3 hrs
   ECO 2013 Principles of Macroeconomics 3 hrs
   ECO 2023 Principles of Microeconomics 3 hrs
   * ECO 3401 Quantitative Business Tools I 3 hrs
   * CGS 2100C Computer Fundamentals for Business 3 hrs
      * At UCF, students who have completed MAC 2233 and STA 2023 will be waived
      * from ECO 3401. Students who have not completed both classes with a "C" (2.0)
      * or better must take ECO 3401.

3. Common Body of Knowledge (30 hrs)
   First Semester in the College of Business Administration:
   GEO 3031 Cornerstone 6 hrs
   GEO 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

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: PSY 2012, SYG 2000, ANT 2000 3 hrs

6. Courses Shared BSBA/MAAE (15 hrs)
   ECO 66403 Mathematical Economics 3 hrs
   ECO 6110 Micro Econ Analaysis 3 hrs
   ECO 6206 Aggregate Econ Conditions Analysis 3 hrs
   ECO 6424 Econometrics 3 hrs
   ECO 6000 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 administra-
   tion, health sciences, political science, computer science, and envi-
   ronmental 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 require-
   ments for the BSBA are met and students have completed a mini-
   mum of 120 hours of credit. Students will then be reclassified as
   graduate students. The MAAE will be awarded on completion of the
   total program of study.

Total Semester hours (BSBA/MAAE) 135 hours

HISTORY ACCELERATED
UNDERGRADUATE-GRADUATE
PROGRAM (B.A. and M.A.)
College of Arts and Sciences
CNH 551, 407-823-2224
http://pegasus.cc.ucf.edu/~history
Graduate program E-mail: hisgrad@ucf.edu
Undergraduate program E-mail: history@ucf.edu
Chair: Edmund F. Kallina
Graduate Program Coordinator: Rosalind J. Beiler

Purpose of this degree - This program allows highly qualified
undergraduate majors in history to begin taking graduate-level cours-
es which will count towards their master’s degree while completing
their baccalaureate degree program. Participation will enable com-
pletion of a B.A. and M.A. in five instead of six years for students
enrolled in full-time course work.

Admission Requirements
- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history course
  work
- A 3.5 GPA or better in history courses and a 3.25 overall GPA or better
- Graduate Record Exam (GRE) combined score of 1050 on both the verbal and quantitative sections of the exam and a score of
  at least 550 on the verbal section
- Completion of a graduate application, including an essay indicat-
ing reasons for desiring to complete the accelerated program, and three letters of recommendation from History Department
Accelerated Undergraduate-Graduate Programs

Undergraduate Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “B” (3.0) in each history course for it to be counted toward the major.
- Co-op credit cannot be used in this major.
- Students should consult with the departmental graduate coordinator.
- Departmental residency requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department. Students may substitute up to nine hours of 5000- or 6000-level courses to meet this requirement.
- Students must compile a portfolio of their written work in history completed inside and outside the classroom.
- The B.A. will be awarded after completion of 36 hours of history classes.
- The M.A. will be awarded upon completion of the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours (see history major requirements).

Graduate Degree Requirements

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students admitted to the accelerated program may take a 5000-level course the first semester of their senior year.
- After successfully completing one 5000-level course, students will be eligible to take HIS 6159 (HISTORIOGRAPHY) and another 5000-level course or the 6000-level seminar following the 5000-level colloquium they have already completed.
- Students may substitute these nine hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate courses.
- Students need to pay fees at the graduate rate for the graduate courses they take.
- Schedule for students enrolled full-time in the accelerated program:
  - Students complete nine hours of graduate-level courses their senior year.
  - Students enroll in at least three hours of graduate-level course work the summer after they receive their B.A.
  - Students enroll in nine hours of graduate-level courses in both spring and fall semesters during their M.A. year.
  - Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first MA year.
  - Students complete and defend a master’s thesis in six hours.

Undergraduate Requirements

1. UCF General Education Program (36 hrs)
   (See the History major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (0 hrs)
   AMH 2010* U.S. History: 1492-1877 GEP
   AMH 2020* U.S. History: 1877-Present GEP
   *See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)
   HIS 4150 History & Historians 3 hrs
   Select one sequence
   EUH 2000, 2001 Western Civilization I & II 6 hrs
   WOH 2012, 2022 World Civilization I & II

4. Upper Division Restricted Electives (21 hrs)
   (Must be taken within the History Department)
   Select six hours of approved history courses within three of the four geographic regions 18 hrs
   1. Asian, African, and Middle Eastern
   2. British and European
   3. Latin American
   4. U.S. and Canadian
   Select three hours of approved history courses 3 hrs

Graduation:
Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Language and Literatures or Judaic Studies. Standardized examinations for foreign language may be used to meet the requirement. Majors who are participating in the accelerated program should complete two years of a foreign language, preferably one functional in their area of historical interest. Students may take the department’s M.A. foreign language proficiency exam immediately following the completion of their foreign language course work.

5. Examination Requirements
   Each candidate for the M.A. in History must pass written examinations in two fields upon conclusion of regular course work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the Capstone course. Each student will also submit a thesis prospectus and preliminary bibliography, which the three members of the student’s thesis committee judge.
Accelerated Undergraduate-Graduate Programs

Minimum Hours Required for M.A. - 36 Semester Hours (nine hours of which also count toward the B.A. degree)

Related Programs: Humanities
Related Minors: African-American Studies, American Studies, Asian Studies, History, Humanities, Latin American and Iberian Area Studies, Middle Eastern Studies, Russian Area Studies, Women's Studies
Transfer Notes:
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- AMH 2015 & 2020: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM
(B.A./B.S. AND M.A./M.S.)
College of Arts and Sciences
http://www.cas.ucf.edu/mls/AcceleratedProgram/
Liberal Studies Undergraduate Program, CNH 201
Liberal Studies Advising Team, 407-823-0144
E-mail: ls@mail.ucf.edu

The accelerated Program allows outstanding Liberal Studies students to earn a B.A. or B.S. degree and a M.A./M.S. degree in as few as five years. Students earn nine hours of graduate credit toward the M.A./M.S. while still an undergraduate, and then earn an additional twenty-four credits after earning the B.A. or B.S. degree.

Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

Admission Requirements
Acceptance to the university does not constitute admission to the accelerated program. An additional application to the program must be submitted and the student accepted. Contact the Liberal Studies program for application materials. All applicants must meet the following criteria:
- A GPA of 3.25 or higher at UCF in their last 30 upper level credit hours before applying in the second semester of their junior year.
- At least 75 credit hours earned by time of application and 30 upper level credit hours by the end of the application semester. Decision about admission to the program will depend partially on the grades earned in the application semester if the 30 upper level (or 75 overall) credits were not earned previously.
- A GRE score of 1050 or above in the verbal and quantitative sections combined (usually taken in the second semester of the junior year).

Undergraduate Degree Requirements
Undergraduate degree requirements vary by track, and each track's requirements must be checked carefully in the appropriate Liberal Studies degree section.
- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each restricted elective course

Students must consult with a Liberal Studies advisor in order to prepare an application
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- 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 16 upper division hours
- Area 1 18 hrs
- Area 2 18 hrs

Computer Information Technology (CIT) track (54 hrs)
- CIT Minor 36 hrs
- One liberal studies area 18 hrs

Liberal Arts track (51 hrs)
An approved course in ethics 3 hrs
An approved course in critical thinking 3 hrs
Minor 18 hrs
Individual minor 24 hrs
Directed Readings or Honors seminar 3 hrs
IDS 4970H Thesis 3 hrs

Environmental Studies Track (54 hrs)
- Core for Environmental Studies 23 hrs
- Subject area: Environmental Studies Fundamentals 20 hrs
- Specialized Subject area: Values, Science, Technology, Envir. 18 hrs

Women’s Studies Track (54 hrs)
- Women’s Studies minor 18 hrs
- One Women’s Studies Subject area 18 hrs
- One Liberal Studies Subject area 18 hrs

4. Program Exit Requirements
Liberal Studies, Environmental Studies, and Women’s Studies tracks
- A grade of “C” or above (2.0) is required for each courses 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.
Graduation-BA: 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.
Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Foreign 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.
- 2.0 UCF GPA.
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required - B.A./B.S. 120 hours (including nine graduate credits when completing the 3+2 program).

Overall Liberal Studies M.A./M.S. Requirements (33 hrs)*
* Nine hours of graduate work are earned in the senior year, in consultation with the M.A./M.S. in Liberal Studies program director. (Please see the Graduate Catalog for specific requirements)

Core courses (9 hrs)
IDS 6308 Ways of Knowing 3 hrs
IDS 6669 Interdisciplinary Approaches to Research 3 hrs
IDS 6351 Critical Thinking and Writing 3 hrs

Concentration (18 hrs)
More than 40 concentrations and certificate affiliation programs are part of the M.A./M.S. in Liberal Studies degree. See the graduate catalog for additional information.

Options (6 hrs)
Thesis Option
Directed Readings 3 hrs
Thesis 3 hrs
Thesis defense
Non-thesis Option
Two approved graduate courses 6 hrs
Comprehensive exam

Total Hours Required - B.A./B.S. + M.A./M.S. 144 hours
Transfer Notes:
- Grades below "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for Upper Division courses.
- 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 ACCELERATED C. RN TO MSN OPTION
College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohealth.ucf.edu/nursing
Interim Director: Jean Leuner
Note: For detailed information about this program, see description in the UCF Degree Programs section.

NURSING ACCELERATED SECOND DEGREE BACHELOR OF SCIENCE IN NURSING (BSN) OPTION
(For individuals who are not Registered Nurses but who hold a baccalaureate or higher degree from a regionally accredited college or university)
College of Health and Public Affairs
HPA 220, 407-823-2744
E-mail: ucfnurse@mail.ucf.edu
Director: Jean Leuner
Undergraduate Coordinator: Patricia Leili

Admission Requirements - Limited Access
Acceptance to the university does not constitute admission to the upper division nursing program.
- Separate application to the limited access accelerated second degree bachelor of science in nursing (BSN) option must be made directly to the School of Nursing prior to January 15 of the year admission is sought.
- UCF admission application must also be submitted by the program deadline.
- Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.
- Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the “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 end of Fall semester.
- 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 adopt the most current catalog;
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements that cannot be answered by college advisors;
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from
the Nursing Program;
- UCF Residency requirement: 30 hours (if applicable);
- Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office.

1. UCF General Education Program  NA

2. Common Program Prerequisites (31 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 2005C</td>
<td>Health Microbiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 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 4705C</td>
<td>Physiological Psychology**</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 or</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 Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3026L</td>
<td>Thera Interv. For Health Prof.</td>
<td>1 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 From Phys/Mental Health</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 3637</td>
<td>Accel Hth Fam and Comm</td>
<td>5 hrs</td>
</tr>
<tr>
<td>NUR 3637L</td>
<td>Accelerated Clin Hth 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 3198</td>
<td>Pathophysiology &amp; Pharmacology</td>
<td>5 hrs</td>
</tr>
<tr>
<td>NUR 4525</td>
<td>Nursing Intervention in Mental Illness</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4525L</td>
<td>Clinical Practice w/Mentally Ill Client</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 4695</td>
<td>Accel Comm Continuum</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4695L</td>
<td>Clinical Pract in Comm.-Orient Nrs</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 Illness</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4829</td>
<td>Accel Trans Leader</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4945L</td>
<td>Directed Nursing Practice</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4XXX</td>
<td>Nursing Elective</td>
<td>3 hrs **</td>
</tr>
</tbody>
</table>

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.

4. Upper Division Restricted Electives (3 hrs)

Nursing Elective:
Not required. Some NUR 4945L placements do require an elective be taken concurrently.

5. Department Continuation and Exit Requirements

Completion of all courses in major with a grade of “C” (2.0) or better
- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives None

7. Foreign Language requirements

- Admission: none
- Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF

Total Semester Hours Required for 2nd Degree BSN 53 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies, Psychology, Health Sciences, Health Services Administration

Transfer Notes:
Examples of Community College Equivalent Courses for Prerequisites
General Psychology (PSY X012) or any General Psychology course 3
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
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

* The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors
University Honors and Honors in the Major Available

Tentative Course Schedule

First Semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 13 hrs</td>
<td>Fall 14 hrs</td>
</tr>
<tr>
<td>NUR 3825</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3065L</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3637</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3637L</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 15 hrs</td>
<td>Summer 11 hrs</td>
</tr>
<tr>
<td>NUR 4745</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4745L</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4945L</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3167 or</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3165</td>
<td>3</td>
</tr>
</tbody>
</table>

Other

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirements. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.
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, Information Systems Technology, 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, 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 who have graduated with an A.S. prior to Fall 2000 are not eligible for participation in these programs unless they also enrolled and working on their degree at UCF. However, students cannot be transient in their last 30 hours at UCF.
5. Students with Associate in Applied Science (AAS) degrees are not eligible for participation in these programs unless they also have the appropriate AS 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 Gordon Rule and CLAST prior to graduation from UCF. Students may still be required to complete all common program prerequisites for majors prior to enrollment in upper division coursework. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted to 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.cohpa.ucf.edu/crim.jus/
Undergraduate Program Coordinator: David Fabianic
e-mail: cjjadviser@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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 3024</td>
<td>Criminal Justice System</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CCJ 3014</td>
<td>Crime in America</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CJC 3510</td>
<td>Prosecution and Adjudication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CJC 3010</td>
<td>Corrections and Penology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CJE 4014</td>
<td>Police and Society</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CCJ 4701</td>
<td>Research Methods in Criminal Justice</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

4. Upper Division Restricted Electives (42 hrs)

■ 27 additional semester hours of upper division CCJ course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
■ 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)
Articulated A.S. To B.S. Programs

Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Exit Requirements

7. Foreign Language Requirements
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

5. Upper Level Technical Electives (6 hrs)
Select six hours from the following:

- 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

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.

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
- 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 hours of Summer credit (if applicable)

Total Semester Hours Required: 134 hours
Related Programs: Electrical Engineering Technology (Electrical Systems Concentration).
Related Minors: none
Transfer Notes:
Students transferring from any Florida public institution with an A.A. or with the General Education Program (GEP) requirements of that institution 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.

GENERAL BUSINESS (B.S.B.A.)
A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. in business administration from a Florida public community college)

College of Business Administration
BA 240, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: B. Moore, BA 325, 407-823-5256

Admission Requirements
Completion of a Statewide Articulated A.S. in Business Administration from a Florida public community college which is composed of 64 hours of course work, including at least 24 hours of transferable General Education courses.

Degree Requirements
1. UCF General Education Program (14 hrs)
   - Communication Foundations 3 hrs
   - Cultural and Historical Foundations 3 hrs
   - Mathematical Foundations 4 hrs
   - Science Foundations 4 hrs
   - Select PHY 2049 and PHY 2049L or PHY 2053C

2. Common Program Prerequisites (CPP) (4 hrs)
   - MAC 2311 or MAC 2253 GEP
   - MAC 2312 or MAC 2254 or equivalent 4 hrs
   - PHY 2048 and PHY 2048L or PHY 2053C GEP

3. Engineering Technology Core Requirements (17 hrs)
   - ETG 3541 Applied Mechanics 3 hrs
   - ETI 3651C Computer Applications 3 hrs
   - ETI 3671 Technical Economic Analysis 2 hrs
   - ETI 4635 Technology Administration 3 hrs
   - ETI 3116 Engineering Quality Assurance 3 hrs
   - ENC 3241 Technical Report Writing 3 hrs
   - BSC 1005L or BSC 1050L 4 hrs

4. Upper Level Required Courses (21 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
MAC 2233 Concepts of Calculus
STA 2023 Statistical Methods

5. Second Level Core (5 courses):
Students must take one course from each of the following areas:
Accounting: ACG 3101, Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:

Accounting: ACG 3101 Intermediate Accounting I
Economics: ECP 4703 Managerial Economics
Finance: FIN 3303 Financial Markets, FIN 3414 Intermediate Corporate Finance, FIN 3504 Investment Analysis
Management: MAN 3205 Management of Organizations, MAN 3301 Management of Human Resources
Marketing: MAR 3025 Management, MAR 4240 Marketing Research and Analysis, MAR 4304 Sales Force Management

6. 4000 Level Requirement:
At least two of the second level courses must be at the 4000 level.

7. A.S. Transfer Classes
Twelve credit hours taken under the A.S. to B.S. agreement will be counted toward the degree.

8. Foreign Language Requirements
(0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: None

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

10. Electives*** (variable)
Must be outside the College of Business

Total Semester Hours Required 132 hours

Community College Transfer Notes
Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF, Business students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

***General electives as required to reach 132 semester hours.

HOSPITALITY MANAGEMENT (B.S.)
A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

Rosen School of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-823-2188 or 407-903-8900
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Admission Requirements
Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements
1. UCF General Education Program (GEP) (18 hrs)
Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
- A. Communication Foundations
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundation

2. Common Program Prerequisites
Completed as part of the approved A.S. program.
CGS 2100 Computer Fundamentals of Business
or STA 2023 Statistical Methods I
or ECO 2013 Macroeconomics
Articulated A.S. To B.S. Programs

MAC 1105 College Algebra
HFT 1000 Introduction to Hospitality Management

3. Hospitality Management Core (24 hrs)
HFT 3540 Guest Services Management 3 hrs
HFT 3431 Hospitality Managerial Accounting 3 hrs
HFT 4295 Strategic Mgmt in Hospitality Industry 3 hrs
HFT 3700 Tourism Management 3 hrs
HFT 3751 Restaurant Management 3 hrs
HFT 3273 Principles of Resort Time Sharing 3 hrs
HFT 4755 Theme Park and Attraction Mgmt 3 hrs
HFT 3942 Practicum II 1 hr
HFT 3941 Practicum III 1 hr
HFT 3933 Distinguished Lectures in Hosp. Mgmt. 1 hr

4. Special School Requirements:
- Grades of "C-" (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
- It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student's responsibility for dropping courses they do not intend to complete.
- Final exams will be given during Exam Week only.

5. Restricted Electives (18 hrs)
Students must take 18 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the six specialized career tracks as outlined below.

A. Generalist Track (18 hrs)
Choose six advanced courses from the following list:
HFT 3313 Hospitality Physical Plant Management 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4298 Hospitality Business Consulting 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 3785 Management of Gaming Enterprises 3 hrs
HFT 3807 Multi-Unit Food Service Organizations 3 hrs
HUN 3013 Nutrition Concepts & Issues in Food Svc 3 hrs
HFT 4961C Beverage Management 3 hrs
FSS 3124 Supply and Procurement Management 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
FSS 3232C Intermediate Techniques of Food Production 3 hrs
FSS 4286C Catering and Banquet Organization 3 hrs
HFT 4753 Convention & Conference Services 3 hrs
HFT 4754 Exhibit & Trade Show Operations 3 hrs
HFT 4735 Tourism Geography 3 hrs
HFT 4722 Travel Agency Management 3 hrs
HFT 4762 Current Practices in the Airline Industry 3 hrs
HFT 4275 Vacation Ownership Resort Development 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs
HFT 3741 Meeting Management 3 hrs
HFT 3757 Event Management 3 hrs
HFT 4274 Vacation Ownership Resort Management 3 hrs
HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
HFT 4426 Vacation Ownership Resort Management 3 hrs
HFT 4429 Sanitation Mgmt in Foodservice Industry 3 hrs
HFT 4274 Yacht, Country, and City Club Management 3 hrs
HUN 3013 Nutrition Concepts & Issues in Food Svc 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4462 Hospitality Financial Management 3 hrs

B. Convention/Conference Management Track (18 hrs)
HFT 4753 Convention and Conferences Services 3 hrs
HFT 4754 Exhibit and Trade Show Operations 3 hrs
HFT 3802 Catering Management 3 hrs
HFT 3741 Meeting Management 3 hrs
HUN 3013 Nutrition Concepts & Issues in Food Svc 3 hrs
HUN 3034 Nutrition Concepts & Issues in Food Svc 3 hrs
FSS 3232C Intermediate Techniques of Food Production 3 hrs
FSS 4286C Catering and Banquet Organization 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs

C. Food Service and Restaurant Operations Management Track (18 hrs)
HFT 3807 Multi-Unit Food Service Organizations 3 hrs
HFT 4266 Restaurant Brand Management 3 hrs
HFT 4844 Sanitation Mgmt in Foodservice Industry 3 hrs
HFT 4861C Beverage Management 3 hrs
FSS 3124 Supply and Procurement Management 3 hrs
FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
FSS 3232C Intermediate Techniques of Food Production 3 hrs
FSS 4286C Catering and Banquet Organization 3 hrs
HUN 3013 Nutrition Concepts & Issues in Food Svc 3 hrs

D. Vacation Ownership Resort Management Track (18 hrs)
HFT 4275 Vacation Ownership Resort Development 3 hrs
HFT 4274 Vacation Ownership Resort Management 3 hrs
HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4462 Hospitality Financial Management 3 hrs

E. Theme Park and Attraction Management Track (18 hrs)
HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
HFT 4758 Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs
HFT 3757 Event Management 3 hrs

F. Tourism Management Track (18 hrs)
HFT 4735 Tourism Geography 3 hrs
HFT 4722 Travel Agency Management 3 hrs
HFT 4762 Current Practices in the Airline Industry 3 hrs
HFT 4754 Exhibit & Trade Show Operations 3 hrs
HFT 3757 Event Management 3 hrs
HFT 3757 Event Management 3 hrs

G. Lodging Management Track (18 hrs)
HFT 3313 Hospitality Physical Plant Management 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 4753 Convention & Conference Services 3 hrs
HFT 4462 Hospitality Financial Management 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs

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A grade of “C” (2.0) or better is required in all prerequisites and “Students should check with their ENT advisor frequently to applying for admission students need to make sure they indicate on at UCF or the courses may be taken at a community college. When will be required to satisfy the General Education requirements either Specialization Science degree in Computer Engineering Technology Network Students will be admitted to the program with an Admission Requirements http://www.ent.ucf.edu 407-823-4748 Fax: 407-823-4746 Bahman Motlagh ENGR 207 Engineering Technology (ENT) Department

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

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

8. Electives (variable)

9. Cooperative Education 0 hrs

500 hours of supervised work experience

Total Semester Hours Required 124 hours

Community College Transfer Notes
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF School of Hospitality Management.
- ACG X001 and X111 will substitute for ACG 2021 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.
- The department may allow substitutions for Hospitality classes taken at the community college. Students should check with the Hospitality Management Department for approval of substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science Engineering Technology (ENT) Department ENGR 207 Coordinator: Bahman Motlagh 407-823-4748 Fax: 407-823-4746 http://www.ent.ucf.edu Admission Requirements Students 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)

2. Engineering Technology Core Courses (26 hrs)

3. Lower Level Required Courses Taken at Community College

4. Required Technical Courses (21 hrs)

5. Technical Electives (12 hrs)

Choose four from the following:

6. Departmental Exit Requirements none

7. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

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

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

Total Semester Hours Required: 128 hours

Related Programs: none

Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
Articulated A.S. to B.S. Programs

- 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

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
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<td>EET 3085C Elect &amp; Electronics</td>
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<td>CET 4483 Local Area Network</td>
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<td>CET 3323 Digital Tech</td>
<td>4</td>
<td>ETI 3651C Computer Appl</td>
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<tr>
<td>CET 3010 Intro to Info Tech</td>
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<td>Tech Elective</td>
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<td>STA 2023</td>
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Summer

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</thead>
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<tr>
<td>CET 4333 Comp Org &amp; Design</td>
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<tr>
<td>ENC 3241 Tech Rept Writing</td>
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<tr>
<td>ETI 4448 Applied Proj Mgmt</td>
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Senior Year

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<th>Spring</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 4505 Appl Oper Sys I</td>
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<td>Tech Elective</td>
<td>3</td>
</tr>
<tr>
<td>CET 4427 Appl Database I</td>
<td>3</td>
<td>CET 4483 Intro to LocalArea Net</td>
<td>3</td>
</tr>
<tr>
<td>CET 3752 Intro to Telephony</td>
<td>3</td>
<td>Tech Elective</td>
<td>3</td>
</tr>
<tr>
<td>CET 4748 Wide Area Networks I</td>
<td>3</td>
<td>Tech Elective</td>
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</tbody>
</table>

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

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 credits in a minor and elective hours)

1. UCF General Education Program (GEP) (18 hrs)

Students will complete 18 hours of selected General Education courses at UCF. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:

- Communication Foundations
- Cultural and Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundation

2. Common Program Prerequisites

- None

3. Restricted Electives (36 hrs)

Students must complete one subject area concentration of eighteen upper-level credit hours from among those specified below

- Students must have sufficient work in the community college for a second subject area concentration of eighteen credit hours as determined by the Liberal Studies office
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper-division hours, in the two areas combined

See the Liberal Studies Advising Team for details regarding each area

- Biological Sciences
- Commerce
- Computer Science
- Education
- Engineering
- Health
- 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 Foreign 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 Henning
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)
- PSY 2012 General Psychology** GEP
- SYG 2000 Sociology** 3 hrs
- MCB 2005C Health Microbiology 4 hrs
- CHM 1032L General Chemistry and Lab** GEP
- ZOO 3733C Human Anatomy* 4 hrs
- PCB 3703C Human Physiology* 4 hrs
- STA 2014C Principles of Statistics** GEP
- or 2023 Statistical Methods I
- or 2020 Assessing Human Development or 3 hrs
- or DEP 2004 Developmental Psychology 3 hrs
- HUN 3011 Human Nutrition 3 hrs
- * May take Anatomy and Physiology sequence of six-eight total credits;
- **Also meets General Education Requirements;

See a UCF Nursing advisor for possible course substitutions.

**3. Core Requirements** (55 hrs)
- NUR 3065 Health Assessment 3 hrs
- NUR 3165 Nursing Research/Critical Inquiry 3 hrs
- NUR 4084 Transitional Concepts in Nursing II 3 hrs
- NUR 4827 Leadership and Management Principles 3 hrs
- NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
- NUR 4945L Directed Nursing Practice 4 hrs
- Validation Credit 28 hrs

**4. Restricted Elective** (3 hrs)
- NUR XXXX Any Nursing Elective 3 hrs

**5. Departmental Exit Requirements**
Completion of all courses in major with a grade of “C” (2.0) or better
- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

**6. Electives** variable

**7. Foreign Language Requirements** (0-8 hrs)
- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent 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 3809:

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Articulated A.S. To B.S. Programs

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Articulated A.S. to B.S. Programs

Prior to NUR 3165:
- Complete NUR 3809 and Statistics course with grade of “C” (2.0) or better.

Prior to NUR 4084:
- Be admitted to the Nursing program
- Complete General Education requirements from a Florida state community college or university (SUS)
- Complete CLAST
- Complete foreign language admission requirement

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 prerequisite and major courses.
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

Degree Requirements
- Students should consult with a departmental advisor
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF residency requirement for Radiography: 33 hours

1. UCF General Education Program (21 hrs)
A. Communication Foundations
- Select ENC 1102, SPC 1600
B. Cultural Historical Foundations
- Select MAC 1105 (Completely at CC), STA 2023 (Core Requirement)
D. Social Foundations
- Select ECO 2013 or ECO 2023 or POS 2041
E. Science Foundations
- Select PHY 2053C
- Select BSC 2010C
Note: PHY 2053L must be taken as a corequisite to PHY 2053C

2. Common Program Prerequisites
A. Communication Foundations
- CGS 1000C Introduction to Computer Science
B. Cultural Historical Foundations
- Select PSY 3705C Human Physiology
C. Mathematical Foundations
- Select PHY 2053C College Physics I

3. Core Requirements (33 hrs)

Junior Level
RTE 3000 Introduction to Radiologic Sciences 2 hrs
RTE 3111C Introduction to Patient Care 2 hrs
RTE 3503C Radiographic Procedures I 3 hrs
RTE 3116 Advanced Patient Care 3 hrs
RTE 3418C Principles of Radiographic Exposure I 3 hrs
RTE 3804 Clinical Education I 4 hrs
RTE 3513C Radiographic Procedures II 3 hrs
RTE 3471C Principles of Radiographic Exposure II 3 hrs
RTE 3884C Physics of Image Production 2 hrs
HSC 3640 Health Law 3 hrs
RTI 3526 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 4792 Pathophysiology 2 hrs
RTE 4814L Clinical Education II 2 hrs
RTE 4824L Clinical Education III 2 hrs
RTE 4573 Advanced Imaging Modalities 3 hrs
RTE 4234 Clinical Education IV 2 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 Imagery 3 hrs
RTE 4206 Leadership in Radiologic Sciences 3 hrs
RTE 4594 Advanced Clinical Practicum 2 hrs

4. Upper Division Restricted Electives:
RTE 4209 Radiological Admin. Practice 2 hrs
RTE 4903 Directed Study Radiologic Education 2 hrs

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

5. Program Exit Requirements (124 hrs)
A minimum overall GPA of 2.50 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.

6. Electives
none

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Exit Requirements
- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (124 hours)
The total hours required for the A.S. to B.S. articulated Radiologic Sciences degree shall be no more than 132 credit hours.

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration
Related Minors: Health Services Administration

Transfer Notes:
Credit by Examination - 23 credit hours of credit by exam for clinical education courses will be awarded to Registered Technologists certified by the American Registry of Radiologic Technologists (ARRT) who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated
by registration in multiple disciplines, registration in an advanced level of certification, or completion of the Advanced Clinical Practicum course. If competency is not successfully demonstrated, additional clinical coursework may be required. Students who successfully complete the requirements for credit by exam will be awarded a grade of "S" for the clinical education courses required in their program of study. Credit by exam for didactic courses will be awarded according to the process described in the UCF catalog.

Community College Equivalents:
- Human Anatomy and Physiology I and II (BSC X085C and BSC X086C or BSC 2093C and BSC 2094C) 8
- College Algebra (MAC 1105) 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


### Classification of Courses

The University course numbering system is as follows:

- **0-0999** Subcollegiate level and not counted in meeting degree requirements.
- **1000-2999** Freshman and sophomore level courses and are designed primarily for these students.
- **3000-4999** Junior and senior level courses (upper-division) and are designed primarily for these and other advanced students. When approved for inclusion in an individual program of graduate study by a supervisory committee approved by the Office of Graduate Studies, selected 4000-4999 courses may serve the needs of individual graduate students.
- **5000-5999** Beginning graduate and advanced undergraduate level courses - open to graduate students and those seniors who receive approval of the appropriate Dean(s).
- **6000-6999** Courses open only to graduate students. (Seniors, within nine hours of graduation that have a minimum 3.0 GPA, and do not register for more than twelve hours may request college permission to take a 6000-level class.)
- **7000-7999** Doctoral-level courses.

### Florida’s Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course details.”

### General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed 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, General,” the century digit “0” represents “Entry-level General Sociology,” the decade digit “1” represents “Survey Course,” and the unit digit “0” represents “Social Problems.”

In science and other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course. 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 210. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 210 at the state university upon transfer. The student cannot be required to take SYG 210 again since SYG 1010 is equivalent to SYG 210. 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.

### Example of Course Identifier

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<th>Prefix</th>
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<th>Decade Digit</th>
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### Authority for Acceptance of Equivalent Courses

State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

When a student transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The award of credit may be limited to courses that are entered in the course numbering system. Credits so awarded shall satisfy institutional requirements on the same basis as credits awarded to native students.

### Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

A. Courses in the 900-999 series (e.g., 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 where Institution Contact may be located) or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400.

Special reports and technical information may be requested by calling 850-245-0427 or SunCom 205-0427.
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Note: changes to these fees, or materials and supplies fees for additional courses, may have been approved after the publication of this Undergraduate Catalog. Contact the appropriate college or school for the most current information.
Finding a Course in this List
The UCF courses in this section are listed alphabetically by prefix. Consult the “Common Course Numbering System” section of the Undergraduate Catalog for additional information.

Availability of Courses
The University does not offer all of the courses listed in this Undergraduate Catalog each academic year, academic semester, or term. Consult the online Class Schedule at https://connect.ucf.edu for those courses offered each semester/term.


ACG 2021H BA-ACCT 3(3,0) Honors Principles of Financial Accounting: PR: MAC 1105, permission of Honors program. Same as ACG 2021 with honors level content.

ACG 2071 BA-ACCT 3(3,0) Principles of Managerial Accounting: PR: ACG 2021 and MAC 1105 or equivalent. The purpose of this class is to thoroughly familiarize the student with the various uses of accounting information for planning and control.


ACG 3111 BA-ACCT 3(3,0) Intermediate Financial Accounting II: PR: Accounting major or minor, ACG 3101 with a grade of “C” or better. Accounting theory and practice for current and long-term liabilities, stockholders’ equity earning per share, investments, revenue recognition, and selected current topics.

ACG 3131 BA-ACCT 3(3,0) Financial Accounting Concepts and Analysis: PR: Junior Standing. Accounting major or minor, and ACG 2021, ACG 2071 with a grade of “C” (2.0) or better. Technical knowledge about accounting measurement, and disclosure plus the study of how accounting reports are analyzed, and interpreted by external users.

ACG 3141 BA-ACCT 3(3,0) Intermediate Financial Accounting: PR: Accounting major or minor, ACG 3131 with a grade of “C” (2.0) or better. Accounting theory and practice related to preparation, and interpretation of external financial statements.

ACG 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.

ACG 3361 BA-ACCT 3(3,0) Cost Accounting I: PR: Junior standing, Accounting major or minor, and MAC 1105, ECO 2013, ECO 2023, and ACG 2071 with a grade of “C”. Theory and practice of using accounting information for managerial planning, and control as well as in costing, and pricing decisions.

ACG 3501 BA-ACCT 3(3,0) Financial Accounting for Governmental and Nonprofit Organizations: PR: Accounting major or minor, and a grade of “C” or better in ACG 2071. Application of the application of financial and managerial accounting, and auditing for governmental, and nonprofit organizations.


ACG 4401 BA-ACCT 3(3,1) Accounting Information Systems: PR: Accounting major or minor, ACG 3111 and ACG 4401 with a grade of “C” or better. An introduction to manual and computer-based accounting information systems.

ACG 4651 BA-ACCT 3(3,0) Auditing: PR: Accounting major or minor, ACG 3111 and ACG 4401 with a grade of “C” or better. The standards, practices, and procedures followed in the audit function.

ACG 4671 BA-ACCT 3(3,0) Internal Auditing: PR: Accounting major or minor, ACG 3111 or ACG 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control.

ACG 5005 BA-ACCT 1.5(1,5,0) Accounting Foundations: PR: Acceptance to Graduate Study. Accounting and reporting from an investment and managerial decision making perspective.

ACG 5205 BA-ACCT 3(3,0) Advanced Financial Accounting Topics: PR: Acceptance in the graduate program, or Accounting major or minor, and ACG 3111 with a grade of “C” or better. Accounting for business combinations and the preparation of consolidated financial statements. Accounting issues related to foreign operations. Also includes a study of current reporting topics.

ACG 5206 BA-ACCT 3(3,0) Seminar in Financial Reporting: PR: Acceptance for graduate study and all accounting foundation courses. An in-depth study of advanced financial reports.

ACG 5346 BA-ACCT 3(3,0) Advanced Managerial Accounting: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3361 with a grade of “C” or better and ECO 3411. Advanced and current techniques for generation and use of accounting information in management decision-making.

ACG 5405 BA-ACCT 3(3,0) Advanced Accounting Information Systems: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 4401. Design, analysis and evaluation of accounting information systems.

ACG 5506 BA-ACCT 3(3,0) Accounting for Governmental and Non-business Organizations: PR: ACG 5501, ACG 3111 and acceptance for graduate study. Study of problems and methods of applying managerial accounting concepts in a nonprofit environment.

ACG 5517 BA-ACCT 3(3,0) Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations.

ACG 5625 BA-ACCT 3(3,0) Auditing and EDP: PR: Acceptance for graduate study. ACG 3111, ACG 4401, and ACG 4651. An examination of auditing procedures followed when a company uses a computer to process financial records.

ADE 4382 ED-TLP 3(3,0) Teaching Adult Learners: Effective teaching techniques including technology, distance instruction, and support systems appropriate to the special needs of adult learners.

ADV 3000 AS-COMM 3(3,0) Principles of Advertising: PR: SPCC 1500C. Overview of the field of advertising; purposes, techniques, the role of agencies, advertisers and the media.

ADV 4101 AS-COMM 3(3,0) Advertising Copywriting: PR: ADV 3000 or C.I. and Grammar Proficiency Exam. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media.

ADV 4103 AS-COMM 3(3,0) Radio-Television Advertising: PR: RTV or AD/PR Majors only and ADV 3000 or C.I. Radio and television advertising sales, including interpretation of rate structures, program audiences, and creative approaches to sponsor needs.

AFA 2102 AS-AAS 3(3,0) 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 2300 AS-AAS 3(3,0) African American Experience: PR: AFA 2102. The black experience in the African diaspora; interdisciplinary examination of major texts, theories, practices and philosophic foundations in African American intellectual and cultural history.

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.
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 "southern 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 3541 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)

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
ANG 5228 AS-SOC/AN 3(3,0)
Maya Iconography: PR: ANT 6168 or CI. Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features.

ANG 5467 AS-SOC/AN 3(3,0)
Nutritional Anthropology: PR: One course in Social Sciences (min-2000-level) and one course in Biological Sciences (min 2000-level) or Consent of Instructor. Graduate status or senior standing or CI. The biological, social, cultural, psychological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary, ecological.

ANT 2000 AS-SOC/AN 3(3,0)
General Anthropology: An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology.

ANT 2000H AS-SOC/AN 3(3,0)
General Anthropology Honors: PR: Permission of Honors. Extensive honors work in the field of anthropology. Expectations, requirements, and standards are greater than for standard General Anthropology.

ANT 2100 AS-SOC/AN 3(3,0)
Archaeology and the Rise of Human Culture: he evolution of human society from foraging and hunting groups to the earliest cities and states.

ANT 2410 AS-SOC/AN 3(3,0)
Cultural Anthropology (Anthropology II): An introduction to human diversity as exemplified among various cultures and ethnic groups.

ANT 2511 AS-SOC/AN 3(3,0)
The Human Species: Human biological variation in an evolutionary perspective.

ANT 2511H AS-SOC/AN 3(3,0)
Honors The Human Species: PR: Permission of Honors. Human biological variation in an evolutionary perspective.

ANT 3101 AS-SOC/AN 3(3,0)
Archaeological Sciences: PR: ANT 2511 or ANT 2100 or CI. Methods and instrumentation routinely used in archaeology and forensic archaeology.

ANT 3115 AS-SOC/AN 3(3,0)
Archaeological Method and Theory: A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports.

ANT 3142 AS-SOC/AN 3(3,0)
Old World Prehistory: A comparative study of social evolution in Africa, Europe, and Asia from the earliest humans to the beginnings of recorded history.

ANT 3145 AS-SOC/AN 3(3,0)
Archaeology of Complex Societies: Theoretical perspectives on ancient hierarchies of power.

ANT 3158 AS-SOC/AN 3(3,0)
Florida Archaeology: PR: ANT 2000 or ANT 2100 or CI. Florida prehistory from Paleo-Indian to European contact including archaeological periods, cultural areas, sites, and artifacts.

ANT 3163 AS-SOC/AN 3(3,0)
Mesoamerican Archaeology: An introduction to the prehistory of Mexico, Guatemala and upper Central America from earliest times through the Spanish conquest.

ANT 3164 AS-SOC/AN 3(3,0)
Ancient Incas: PR: ANT 2000 or SYG 2000 or ANT 2100 or CI. The ancient Inca civilization, including examination of pre-Inca cultures and modern Andeans. Uses archaeo-

logical, ethnohistorical, historical, and contemporary anthropological sources.

ANT 3168 AS-SOC/AN 3(3,0)
Maya Archaeology: An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field.

ANT 3184 AS-SOC/AN 3(3,0)
Mortuary Archaeology: 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.

ANT 3212 AS-SOC/AN 3(3,0)

ANT 3241 AS-SOC/AN 3(3,0)
Magic, Ritual, and Belief: Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena.

ANT 3245 AS-SOC/AN 3(3,0)
Native American Religions: PR: ANT 2000 or ANT 2410 or CI. The religious beliefs of native New World peoples.

ANT 3262 AS-SOC/AN 3(3,0)

ANT 3273 AS-SOC/AN 3(3,0)
Law and Culture: An introduction to law as an organizing force in society, including a study of primitive forms of law and social control.

ANT 3302 AS-SOC/AN 3(3,0)
Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective.

ANT 3311 AS-SOC/AN 3(3,0)
Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast.

ANT 3312 AS-SOC/AN 3(3,0)
Ethnology of North American Indians: A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition.

ANT 3313 AS-SOC/AN 3(3,0)

ANT 3314 AS-SOC/AN 3(3,0)
Indians of the Northeast Woodlands: PR: ANT 2003 or ANT 2140 or other lower-level social science course. The prehistory, history and culture of Native Americans of the Northeastern United States.

ANT 3316 AS-SOC/AN 3(3,0)

ANT 3318 AS-SOC/AN 3(3,0)
Indians of the Northwest Coast: PR: ANT 2003 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the Northwest Coast of North America.
ANT 4034 AS-SOC/AN 3(3,0)
History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology.

ANT 4153 AS-SOC/AN 3(3,0)
North American Archaeology: PR: any lower-level social science course. The cultural development of Native North Americans from prehistoric times to the period of the first European contact.

ANT 4180C AS-SOC/AN 3(1,4)
Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit.

ANT 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)
Postcolonial Africa: PR: ANT 2000 or SYG 2000 or C.I. Cultural change and continuity in contemporary Africa, ethnohistory of postcolonial social and cultural issues including globalization, health, economics, peace and stability.

ANT 4462 AS-SOC/AN 3(3,0)
Medical Anthropology: PR: ANT 2000 or ANT 2511 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications.

ANT 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 & ANT 4525C, C.I. The study of human skeletal remains in relation to a legal context.

ANT 4525C AS-SOC/AN 4(3,1)
Human Osteology: PR: ANT 2511. The scientific study of the human skeleton and the methodology and techniques involved in the anthropological assessment of skeletal remains.

ANT 4528C 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.

APB 4651 HPA-HP 2(2,0)
Medical Pharmacology I: Drugs in pulmonary diseases; effects on nervous system, and neuroeffectors, depressants & stimulants; influence on metabolism and endocines. (MDRV) Bronchodilators, mycolytics, etc.

APB 4652 HPA-HP 2(2,0)
Medical Pharmacology II: PR: APB 4651 or C.I. Drugs used in cardiovascular disorders. Includes isotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists.

ARA 1120 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization I: Introduces the student to Arabic language skills. Open only to students with no experience in the language.

ARA 1120H AS-LANG 4(4,1)
Honors Elementary Arabic Language and Civilization I: PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level content.

ARA 1121 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization II: PR: ARA 1120 or C.I. Continuation of ARA 1120.

ARA 1121H AS-LANG 4(4,1)
Honors Elementary Arabic Language and Civilization II: PR: Permission of Honors. Continuation of ARA 1120H. Honors level content.

ARA 2200 AS-LANG 3(3,1)
Intermediate Arabic Language and Civilization I: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level.

ARE 2011 ED-TLP 3(3,0)
Early Childhood Art and Creativity: An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented.

ARE 3944 AS-ART 3(2,3)
Community Arts Practicum: 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 4233 and at least junior standing or C.I. Concepts, principles, and methods of integrating art processes into the education of students with physical, emotional, and mental disabilities.

ARE 4262 AS-ART 3(3,0)
Methods in Art Administration: PR: ARE 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 AS-ART 3(2,1)
Teaching Art in the Elementary School: PR: EDF 4214 and EDG 4323. Transition from university art studio practice to public school teaching of art. Organizing, designing and analyzing art experiences, activities and classroom environments for the elementary school classroom.
tecture from the Baroque through the 20th century.

ARH 2051H AS-ART 3(3,0) Honors History of Western Art II: PR: ARH 2050, permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level content.

ARH 3421 AS-ART 3(3,0) Modern Art of Mexico: PR: ARH 2050 or ARH 2051 or C.I. Modern art of Mexico from the Mexican Academy post-independence to the 1980's.

ARH 3456 AS-ART 3(3,0) Art in the Last 25 Years: PR: ARH 2050 and ARH 2051 or C.I. A seminar for upper-level art students to examine current trends in the visual arts.

ARH 3520 AS-ART 3(3,0) African Art: 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 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 characteristics of art as they reflect the cultural evolution of Latin America.

ARH 3683 AS-ART 3(3,0) Southern Folk Arts: PR: Junior Standing or C.I. This course will explore contemporary issues related to folk art including definition, collecting, marketing, art criticism, tradition, innovation, and its relationship to the so-called fine arts and popular arts.

ARH 3710 AS-ART 3(3,0) History of Photography I: PR: Junior Standing or C.I. History of still photography from its earliest inception to 1900. The content of this course is designed for art majors.

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 3728 AS-ART 3(3,0) American Art: PR: ARH 2500 and ARH 2051 or C.I. Surveys American Art to 1900. Leading artists are identified and representative examples of their work are discussed within the context of major themes, patterns, sources.

ARH 3802 AS-ART 3(3,0) Happenings and Conceptual Art: PR: Junior Standing or C.I. Aesthetic and social significance of "Total Art" in its attempt to break down customary distinctions between life and art.

ARH 3820 AS-ART 3(3,0) Visual Arts Administration Vitas: PR: Junior Standing or C.I. Grant applications; Personnel; copyright laws; museum 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 2051. Medieval art from the 6th through 14th centuries, including painting, architecture, sculpture and illuminated manuscripts.

ARH 4300 AS-ART 3(3,0) Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of Italian Art and Architecture from 1300 to 1500.

ARH 4350 AS-ART 3(3,0) Baroque Art: PR: ARH 2050 and ARH 2051 or C.I. A study of European Art in the 17th and 18th centuries.

ARH 4430 AS-ART 3(3,0) 19th Century Art: PR: ARH 2050 and ARH 2051. A survey of the trends and developments in art during the 19th century, including the art of America and of Western Europe.

ARH 4450 AS-ART 3(3,0) 20th Century Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of the art from Fauvism, Futurism, Cubism to the art of the present.

ARH 4545 AS-ART 3(3,0) Art of India: PR: Junior Standing or C.I. Art and architecture of India from prehistoric times through the Gupta, Rajput, and Muslim periods.

ARH 4655 AS-ART 3(3,0) Meso American Art: 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 century.

ARH 4800 AS-ART 3(3,0) Theory and Criticism of the Visual Arts: PR: ARH 2050 and ARH 2051 or C.I. Criteria of criticism, analysis of works, elements of psychology and sociology of art. Developments in the art of the 20th century.

ARH 4892 AS-ART 3(3,0) Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of women artists from ancient times to the present as well as a study of the role Aesthetics and ideology have played in determining representations of women in art.

ARH 5897 AS-ART 3(3,0) Advanced Seminar in Art History: PR: ARH 2050 and ARH 2051 or C.I. Research methods on various topics including: major artist, monument, cultural period or theme.

ART 2130C AS-ART 3(3,0) Fibers & Textiles: Design and production training in surface design, floor loom weaving and fiber sculpture.


ART 2201C AS-ART 3(2,4) Design Fundamentals-Two Dimensional: PR: ART 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.

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, form. 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 media.

ART 2300C AS-ART 3(2,4) Drawing Fundamentals I: PR: ART 2200 or C.I. Priority given to students whose major requires this course. Drawing as a means of formal organization. Introduction to problems in drawing methods and media. Emphasis on description techniques.

ART 2301C AS-ART 3(2,4) Drawing Fundamentals II: PR: ART 2300C and ART 2200 or C.I. Priority given to students whose major requires this course. Continuation of ART 2300C.

ART 2394 AS-ART 3(3,0) Drawing: Computer as a Medium: Object drawing, using the computer and drawing stylus as a medium.

ART 2400C AS-ART 3(2,4) Beginning Printmaking: Basic elements and techniques of printmaking covered. Relief, intaglio, and lithography. Assignments include practical application of printmaking as drawing tool.

ART 2500C AS-ART 3(2,4) Beginning Painting: PR: ART 2300C, ART 2200C, or C.I. Introduction to problems in painting.

ART 2600C AS-ART 3(2,4) Introduction to Computer Art: PR: ART 2200 or C.I. Priority given to students whose major requires this course. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems.

ART 2701C AS-ART 3(2,4) Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2300C, ART 2301C.

ART 2754C AS-ART 3(2,4) Beginning Ceramics: PR: ART 2200C or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery.

ART 2820 AS-ART 3(3,0) Art as Interface: An overview of different 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 by the various disciplines and how knowledge of these data is used by the profession to share information with the community.
tools to combine elements in a finished animation.

ART 4256C AS-ART 3(2,4) Advanced Illustration: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C. Illustration involving the use of advanced level techniques in illustration media. May be repeated for credit.

ART 4320C AS-ART 3(2,4) Advanced Drawing: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C, ART 3332C. May be repeated for credit.

ART 4402C AS-ART 3(2,4) Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C, and a satisfactory portfolio review or C.I. Advanced process in printmaking. May be repeated for credit.

ART 4505C AS-ART 3(2,4) Advanced Painting: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit.

ART 4634C AS-ART 3(3,1) WebArt: 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 200C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit.

ART 4764C AS-ART 3(2,4) Ceramic HandBuilding II: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C, ART 2754C, and a satisfactory portfolio review or C.I. Technical skills in manipulating form, function, volume, color and surface texture.


ART 4783C AS-ART 3(2,4) Advanced Ceramics: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit.


ART 4935 AS-ART 3(3,1) BFA Exhibit/Seminar: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C. Complete Studio course for BFA, and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. Exhibition.

ART 4945 AS-ART 6(0,6) C.R.E.A.T. Project: PR: ART 2201C, ART 2203C, ART 200C, ART 2301C, FIL 4208C, 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 5109C AS-ART 3(2,4) Multi-Cultural Crafts Design: PR: ART 2201C, ART 2203C, 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, photographs, 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 5694 AS-ART 3(3,0) Cross-cultural 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 “airs electronic” 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) Concource 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 prerequisites), 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.

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 S/U.

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 16th century to the present.
ASH 4304 AS-HIST 3(3,0)  
Women in China: PR: AMH 2010 and AMH 2020, or EUH 2000 and EUH 2001, or WOH 2012 and WOH 2022. Historical changes and continuities in experiences of Chinese women during the traditional period, the modern era and contemporary times.

ASH 4402 AS-HIST 3(3,0)  

ASH 4404 AS-HIST 3(3,0)  
China in 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. The Mongols in China; coming of the Europeans; social structure; Communist movement; Japanese aggression.

ASH 4442 AS-HIST 3(3,0)  
Modern Japan, 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. 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 4501 AS-PHYS 3(3,0)  
Celestial Mechanics: PR: PHY 2048, AST 2002. The orbital motions of celestial bodies, including orbit calculation, perturbation theory, and Hohmann transfer orbits.

AST 5165 AS-PHYS 3(3,0)  
Planetary Atmospheres: PR: Mechanics PHY 3221 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 UCF-HOSP 3(3,0)  
Airline Management: PR: Junior Standing. The trends, operation, practices, and procedures of the airline industry. Special emphasis on ticketing, scheduling, marketing, and terminal management.

BCH 4053 AS-CHEM 3(3,0)  

BCH 4054 AS-CHEM 3(3,0)  
Biochemistry II: PR: BCH 4053. Continuation of BCH 4053.

BCH 4103L AS-CHEM 2(0,6)  
Biochemical Methods: PR: BCH 4053. A laboratory course stressing the application of the chemical arts to the separation, identification, and quantification of materials of biological significance.

BOT 3152C AS-BIOL 3(3,1,4)  
Local Flora: PR: BSC 2010C and BSC 2011C, or C.I. Recognition and identification of Florida higher 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(2,1,4)  
Plants and the Urban Environment: PR: Junior standing or C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. For non-majors only.

BOT 4156C AS-BIOL 4(2,6)  

BOT 4423C 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 tissue of vascular plants.

BOT 4303C AS-BIOL 5(3,6)  
Plant Kingdom: PR: BSC 2010C and BSC 2011C, or C.I. A survey of the plant kingdom utilizing comparative morphology, structure and functions to demonstrate relationships among extant and extinct forms.

BOT 4503 AS-BIOL 3(3,0)  
Plant Physiology: PR: PCB 3032 or C.I. A study of mechanisms used by plants to cope with the environment.

BOT 4503L AS-BIOL 1(0,3)  
Plant Physiology Laboratory: CR: BOT 4503. The laboratory to accompany BOT 4503.

BOT 4696C AS-BIOL 4(3,3)  
Conservation and Management of Native Plants: PR: BOT 4713C, PCB 3034 and/or BOT 4503C or C.I. Identification, conservation, propagation and management of Florida rare, endangered, indicator or reclamation species.

BOT 4713C AS-BIOL 5(3,6)  

BOT 5485C AS-BIOL 3(2,3)  
Terrestrial Cryptogams: PR: BOT 4303C, graduate status or senior standing, or C.I. A lecture-laboratory survey course on the biodiversity and classification of terrestrial-cryptogams (bryophytes, ferns, and fern allies) with special emphasis on those found in Florida.

BOT 5623C AS-BIOL 4(3,3)  
Plant Geography and Ecology: PR: PCB 3034, and graduate status or senior standing or C.I. The study of the abiotic and biotic processes that control the distribution of terrestrial flora at local, landscape, and global scales.

BSC 1005 AS-BIOL 3(3,0)  
Biological Principles: A study of various biological factors which affect the health and survival of man in modern society. Designed for non-majors.

BSC 1005H AS-BIOL 3(3,0)  
Biological Principles-Honors: PR: Permission of Honors. Biological factors that affect dependence on the environment, the role of human population preserving ecological integrity.

BSC 1005L AS-BIOL 1(0,2)  
Biological Principles Laboratory: CR: BSC 1005. The laboratory to accompany BSC 1005.

BSC 1050 AS-BIOL 3(3,0)  
Biology and Environment: Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Designed for non-majors.

BSC 1050H AS-BIOL 3(1,4)  

BSC 1050L AS-BIOL 1(0,2)  
Biology and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050.

BSC 2010C AS-BIOL 4(3,2)  
General Biology: PR: High school biology or C.I. Priority given to students whose major requires this course. Basic principles, unifying concepts, and facts of modern biology. Introduction to quantitative biological experimentation. Open only to students whose major requires this specific course.

BSC 2010H AS-BIOL 4(3,3)  
General Biology Honors: PR: Permission of Honors. Priority given to students whose major requires this course. Basic principles and unifying concepts of modern biology. Introduction to quantitative experimentation using intensive, open-ended labs.

BSC 2011C AS-BIOL 4(3,3)  
Biological Diversity: PR: BSC 2010C or C.I. Introduction to botany and zoology. Structure, function, and representa- tive groups of plants and animals. Open only to students whose major requires this specific course.
Honors level content. Odated techniques and instrumentation used in quantitative biological experimentation. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular biological experimentation. Honors level content.

BSC 3424  HPA-M&M  3(3,0)

Quantitative Biological Methods: Hons; BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular biological experimentation. Suitable for majors and non-majors.

BUL 3130H  BA-ACCT  3(3,0)

Legal & Ethical Environment of Business - Honors: PR: Junior standing and business major or minor, permission of Honors. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level content.

BUL 3320  BA-ACCT  3(3,0)

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, operations, and termination of recognized business organizations. Analysis of the effects of government regulation on business activity, including anti-trust and securities regulation.

BUL 5125  BA-ACCT  3(3,0)

Legal and Social Environment of Business: PR: Admission to graduate program. Analysis of the legal and ethical environment of business, the effects of legislation and regulation on business activity, and the role of law and ethics in the decision-making process.

BUL 5332  BA-ACCT  3(3,0)

Advanced Business Law Topics: PR: Admission to graduate program, or Management major or minor in term of graduation, BUL 3130. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions.

BUL 5512  BA-ACCT  3(3,0)

Evolutionary Computation: This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms.

BUL 5610  ECS-CS  3(3,0)

Computer Vision: PR: COP 3320. Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation.

BUL 5912  ECS-CS  3(3,0)

Machine Learning: PR: Admission to graduate program, or Management major or minor, permission of Honors. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical considerations.

BUL 3130  BA-ACCT  3(3,0)

Legal and Ethical Environment of Business: PR: Junior standing and business major or minor. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical considerations.

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)


CAP 5636  ECS-CS  3(3,0)

Computer Graphics I: Architecture of graphics processors; display hardware; principles of programming and display software; problems in applications of graphics systems.

CBH 3000  AS-PSYCH  3(3,0)

Comparative Psychology: PR: PSY 2012. A study of comparative behaviors of lower animals.

CCE 4003  ECS-CSE  3(3,0)

Introduction to the Construction Industry: PR: Civil Engineering with construction option. The construction industry: Topics covered include: project evaluation, project phases, project delivery systems, contracts, estimating and scheduling, drawing and specifications.

CCE 4004  ECS-CSE  3(3,0)

Construction Methods: PR: EGN 3613 and junior standing. 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 4031  ECS-CSE  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-CSE  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 4402  ECS-CSE  3(3,0)

Construction 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.
a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control.

CCE 4813 ECS-CCE 4(4,0)
Mechanical and Electrical Systems for Buildings: PR: CCE 4003 or C.I. Design and construction of mechanical and electrical systems for buildings.

CCE 5006 ECS-CCE 3(3,0)
Introduction to Construction Industry: PR: post-bacc status or C.I. This course introduces students to the construction industry. Topics include project evaluation, project phases, project delivery systems, contracts, estimating and 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, scheduling and project control Research paper required.

CCE 5205 ECS-CCE 3(3,0)
Construction Methods: PR: post-bacc status or C.I. This class covers construction project evaluation principles along with construction methods for civil and structural systems.

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)
Mechanical and Electrical Systems for Buildings: PR: C.I. This course covers the design and construction of mechanical and electrical systems for buildings Research paper required.

CCJ 3014 HPA-CJ/LS 3(3,0)
Crime in America: A survey of crime and criminality in the United States, with emphasis on crime data, its weaknesses, and types of criminal behavior.

CCJ 3024 HPA-CJ/LS 3(3,0)
Criminal Justice System: An examination of the components and of their interdependence in light of their traditional autonomy.

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 3024 or C.I. Elements of first-line supervision and executive development. Administrative leadership; its nature; methods, and traits. Recent theories and research in leadership.

CCJ 3451 HPA-CJ/LS 3(3,0)
Justice System Technology: PR: CCJ 3024 or C.I. Examination of the relevance of scientific and technological developments to justice systems and their applicability to the operations and management of the systems.

CCJ 3483 HPA-CJ/LS 4(4,0)
Labor Relations in Criminal Justice: PR: CCJ 3024 and CCJ 3450 or C.I. Examine the role of public sector labor relations in criminal justice to include management-employee relationships, collective bargaining process, employee organizations, and federal-state laws.

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 Criminal Justice System: PR: CCJ 3024. Course examines victims as they affect the Criminal Justice system, the dimensions of criminal victimization, and victim offender programs.

CCJ 4035 HPA-CJ/LS 3(3,0)
Crime and the Media: PR: CCJ 3024 or C.I. Explore how the criminal justice system, criminals, and crime are portrayed in the media and its impact on society and the criminal justice system.

CCJ 4076 HPA-CJ/LS 3(3,0)
Crime Analysis II: PR: CJE 4645, CJE 4663. Designed to provide advanced data analysis skills that will enable a crime analysis sophisticated methodologies to crime analysis.

CCJ 4100 HPA-CJ/LS 3(3,0)
Criminal Investigation: PR: CJE 4014. Course acquaints students with basic Procedures used in Criminal investigations, purpose of investigations, and ingredients for successful investigations.

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 4206 HPA-CJ/LS 3(3,0)
Famous Crimes & Trials: PR: CCJ 3014 or CCJ 3024 or consent of instructor. A detailed examination of selected famous American crimes and trials since 1900.

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 4014. The course is designed to deal with policy development in law enforcement. Major issues of organization, administration, personnel practices and police operations will be addressed.

CCJ 4459 HPA-CJ/LS 3(3,0)
Justice Agency Operations: PR: CCJ 3024 and CCJ 3460 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 associated 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)
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 students 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 3(3,0)
Emergent Criminal Justice Issues: PR: CCJ 3014, CCJ 3024. In-depth analysis of developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit.

CCJ 4941 HPA-CJ/LS 6(9,0)
Criminal Justice Internship: PR: C.I. Internship in municipal, county, state or federal criminal justice agency. Includes assignments in police, courts, corrections components. Graded SU.

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 lec-
CCJ 5073 HPA-C/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-C/LS 3(3,0)

CCJ 5406 HPA-C/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-C/LS 3(3,0)
The Administration of Justice: This course provides an overview of the criminal justice system and a critical analysis of the formal processing of offenders by criminal justice agencies.

CCJ 5467 HPA-C/LS 3(3,0)
Justice and Safety System Management: Processes and procedures essential to administration of human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel.

CCJ 5617 HPA-C/LS 3(3,0)
Mental Disorder, Crime, and Criminal Justice: PR: CCJ 5468, CCJ 5505, or C.I. An overview of the relationship between mental disorder, crime, and the criminal justice system.

CCJ 5675 HPA-C/LS 3(3,0)
Human Rights & Criminal Justice: PR: Senior scholar or graduate standing or C.I. Provides in-depth analysis of the human rights movement and its potential impact upon criminal law as well as the juvenile and criminal justice systems.

CCJ 5688 HPA-C/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.

CCJ 5704 HPA-C/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-C/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-C/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. Combinational logic, circuits, sequential logic design, finite state machine design, software tools for logic design, and assembly language programming.

CDA 4150 ECS-CS 3(3,0)
Computer Architecture: PR: COP 3402C and CDA 3103C. Basic processor design, hardened 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, MHE 2104 or COT 3100C. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), products (routers, switches, adapters, cabling). Basic design and detailed configuration including hands-on exercises.

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 Architecture and Algorithms: PR: COP 4210, CDA 5106. General-purpose vs. special-purpose parallel computers; arrays, message-passing; shared-memory; Taxonomy; parallelization techniques; communication synchronization and granularity; parallel data structures; automatic program restructuring.

CDA 5215 ECS-CS 3(3,0)
Architecture and Design of VLSI: PR: CDA 4150 or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system.

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. Performing 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)

CENG 3301 CEE-CS 3(3,0)
Engineering and Environmental Geology: PR: EGN 3310 and CHS 3301 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.

CENG 4101C ECS-CS 4(3,2)

CENG 4801C ECS-CS 3(2,2)
Geotechnical Engineering Design: PR: CEG 4101C. Project course on design of foundations and other soil structures using geotechnical design methodologies.

CEG 4812 ECS-CS 1(1,0)
Historical Developments in Civil Engineering: Seminar covering major historical developments in civil engineering.

CEG 5015 ECS-CS 3(3,0)
Geotechnical Engineering II: PR: CEG 4101C. Continuation of CEG 4101C with emphasis on shear strength and design factors for earth pressures, bearing capacity, and slope stability.

CEG 5700 ECS-CS 3(3,0)
Geo-Environmental Engineering: PR: CEG 4101C. Geotechnical applications to environmental problems, groundwater flow, soil contamination and groundwater contaminant transport, geosynthetics and stability of landfill design, control of contaminated sites.

CEN 4020 ECS-CS 3(3,0)
Component-based Engineering Software: PR: EEL 4851C, EEL 4882. In-depth treatment of component-based software development including analysis design and implementation of correct and reusable software in different component levels.

CEN 5016 ECS-CS 3(3,0)
Software Engineering: PR: COP 4232. Study and application of formal software development processes and documentation standards for large scale software systems. A team project is required.

CEN 4100C ECS-CS 4(3,3)
Structural Analysis I and Lab: PR: EGN 3331. Topics in structural mechanics, analysis of determinate and indeterminate structures by flexibility and stiness methods computer and laboratory exercises on behavior of structures and materials.

CEN 4101 ECS-CS 3(3,0)
Structural Analysis II: PR: CEN 4101. Special structures; introduction to matrix structural analysis, dynamic loads including wind and earthquake.

CEN 4605 ECS-CS 3(3,0)
Steel Structures: PR: CEN 4100C. Design of structural steel members and buildings; emphasis on AISC-ASD building code; introduction to AISC-LRFD building code; tension and compression members, beams, beam-columns, connections.

CEN 4608C ECS-CS 3(2,2)
Steel Design: PR: CEN 4605. Project course on design of steel components, connections, and frame structures using AISC specifications.

CEN 4702 ECS-CS 3(3,0)
Reinforced Concrete Structures: PR: CEN 4100C or C.I. Design of RC members using ACI code; beam flexure and shear; compression bending; bond and development; introduction to continuous frames.

CEN 4709C ECS-CS 3(2,2)
Concrete Design: PR: CEN 4702. Project course on design of concrete structures using concrete and structural analysis methodologies.

CES 5325 ECS-CS 3(3,0)
Bridge Engineering: PR: CES 4605; CES 4702. Structural systems for bridges, loading, analysis by influence lines, slab and girders bridges, composite design, prestressed concrete, rating of existing bridges, specifications and economic factors.

CES 5606 ECS-CS 3(3,0)
Advanced Steel Structures: PR: CES 4605. 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.

CET 5706  ECS-CEE  3(3,0)  Advanced Reinforced Concrete: PR: CES 4702 or C.I. Design of frames, two-way floor systems, shear walls; shear and torsion; compression field theory; inelastic analysis; wind and seismic design; introduction to prestressed concrete.

CES 5821  ECS-CEE  3(3,0)  Masonry and Timber Design: PR: C.I. Structural properties of masonry and timber; design loads-codes and standards; analysis for axial loads, flexure and shear

CET 2123C  ECS-ENT  3(2,3)  Microprocessor Electronics I: PR: MAC 1105. Introduction to microprocessors. Includes machine language programming, an introduction to microprocessor-based system architecture, and binary and hexadecimal arithmetic.

CET 2364  ECS-ENT  3(3,0)  Systems Applications in C: PR: MAC 1105. Use of C language in control of system processes, DOS and BIOS interrupts, and interfacing with assembly language. May be repeated for credit.

CET 3010  ECS-ENT  3(3,0)  Introduction to Information Technology: PR: MAC 1105. An introduction to IT field, including binary representation, graphics, data compression, information theory, transmission and storage technology, and communications.

CET 3144C  ECS-ENT  3(2,2)  Applied Microprocessor Technology: PR: DC Circuit Analysis, digital and microprocessor fundamentals, and high level programming language. Analysis and design of the components, architecture, and interfacing of a microcomputer. Specific reference to IBM compatible microcomputers and peripherals. Troubleshooting and repair are emphasized in the laboratory.

CET 3198C  ECS-ENT  3(3,2)  Digital Systems: PR: DC Circuits and Digital Circuits I. Finite State Machines and Algorithmic State Machines, includes design, synthesis and implementation of a digital system using schematic capture and VHDL.

CET 3323C  ECS-ENT  4(3,2)  Digital Technology: PR: MAC 1105 and C.I. Digital logic gates, memory devices, Karnaugh Maps, combinational logic, arithmetic units, registers and sequential logic.

CET 3383  ECS-ENT  3(3,0)  Applied Systems Analysis I: PR: CET 2364 or equivalent. Study of system analysis, design, development and implementation cycle. Includes Object Oriented Programming (OOP) to implement system programs. May be repeated for credit.

CET 3503  ECS-ENT  3(3,0)  Microcomputer Technology: PR: High level programming language. Microcomputer assembly programming, including overview of architecture and operating system environment.

CET 3752  ECS-ENT  3(3,0)  Intro to Telephony: PR: EET 3085C or equivalent or C.I. An introductory level course in telephony technology. The telephony environment, telemangement, telephony connectivity and services of telephony.

CET 4134C  ECS-ENT  3(2,4)  Microprocessor Electronics II: PR: Digital Circuits I and CET 2123C. The MC6800 Software architecture programming and hardware architecture are covered in great detail. Assembly language programming interfacing and hardware characteristics as well as applications are covered.

CET 4138C  ECS-ENT  3(3,2)  Digital Programmable Devices: PR: CET 3198C or equivalent and C.I. Architecture and applications of various types of programmable logic devices. Design entry methods, e.g. HDL, schematic capture, etc. Lab exercises using PALs, PLDs, and FPGAs.

CET 4333  ECS-ENT  3(3,0)  Computer Organization and Design: PR: CET 3323C. Basic computer architecture and system design. An introduction to memory, processor, bus and I/O organization.


CET 4427  ECS-ENT  3(3,0)  Applied Database I: PR: CET 2364 or equivalent. Design and implementation of data base systems within the concept of central administration, structured data storage. Programming project. May be repeated for credit.

CET 4429  ECS-ENT  3(3,0)  Applied Database II: PR: CET 4427. Continuation of CET 4427. Study of hierarchical database system. Programming project is required. May be repeated for credit.

CET 4469C  ECS-ENT  3(2,2)  Applied Infobases: PR: ETI 5651, CET 3144C, CET 3505 or equivalent, C.I. Using computer application packages to create, use, and index both personal and technical infobases. Hardware and software optimization. Enhancement add-ons. Intranet applications.

CET 4483  ECS-ENT  3(3,0)  Intro to Local Area Network Technology: PR: EET 3085C or equivalent or C.I. An introductory level course in local area networks. Topics in data communications, computer networking, local area network technology, topologies, and protocols will be covered. May be repeated for credit.

CET 4505  ECS-ENT  3(3,0)  Applied Operating Systems I: PR: CET 2364. Modifying the operating systems to support new types of devices. Analysis of limitations and strengths of commercial mass storage operating systems in industry. U.S. tool box usage. May be repeated for credit.

CET 4523  ECS-ENT  3(3,0)  Applied Systems Analysis II: PR: CET 3383. Continuation of CET 3383, with emphasis on distributed processing which includes the interfacing of minis, mainframes, software, communications, and data base technology into a responsive information system.

CET 4583  ECS-ENT  3(3,0)  Web Based Systems I: PR: CET 2364. Introduction to web systems with emphasis on server configuration, web standards, and portal design.

CET 4584  ECS-ENT  3(3,0)  Web Based Systems II: PR: CET 4583. Advanced web design concentration on use of current technology (CGI, Java, XML, DHTML) to provide interactivity.


CET 4741L  ECS-ECE  3(0,3)  Computer Networking Laboratory: PR: C.I. Laboratory exercises to enhance the understanding of concepts/principles discussed in computer networking and data communication texts.

CET 4748  ECS-ENT  3(3,0)  Wide Area Networks I: PR: CET 3752 or CET 4483, or C.I. Designing Wide Area Networks; determining requirements, designing the networks, structure, choosing appropriate technologies, and evaluating results.


CET 4884  ECS-ENT  3(3,0)  Security Methods and Practice: PR: CET 4683, CET 4483 or C.I. Computer networks, secure telecommunications networks, disaster recovery, and the legal issues of security practices.

CET 4915C  ECS-ENT  3(1,4)  Senior Design Project: PR: Computer, Electronics, or Information Systems Engineering Technology senior within 18 semester hours of graduation. Supervised individual or group projects involving project definition, planning, design, development, testing and evaluation. Progress reports and final report are required.

CET 4931  ECS-ENT  3(3,0)  Current Topics in Technology: PR: C.I. Study of recent state-of-the-art computer related topics from recognized electronics and computer oriented technical journals and texts. Requires written and verbal communication.

CGN 3501C  ECS-CEE  3(2,3)  Civil Engineering Materials: PR: C.I. The characterization of materials used in civil engineering works to include concrete, soils, bituminous, polymers and composite materials.

CGN 4300  ECS-CEE  3(3,0)  Civil Engineering Systems: PR: EGN 3613; MAC 2313; STA 3023. Mathematical techniques commonly associated with operations research and economics which are applicable to the planning, design, and operation of civil engineering systems.

CGN 4600  ECS-CEE  3(3,0)  Public Works Engineering: PR: ENV 3001 and CWR 3001. 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 - TTE 4601C, CES 4608C, CES 4709C, CWR 4812C, EGN 4852C, CEG 4801C, or CES 4608C. 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.

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 3365, EGN 3521, 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.
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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. Determination of chemical structure through interpretation of UV, IR, NMR and Mass Spectra.

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 of 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.

CHM 5580 AS-CHEM 3(3,0)
Advanced Physical Chemistry: CR: CHM 3411 and PR: MAC 2231, 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)
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 or grade of better in CHM 2046 & L. 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 or grade of better in CHM 2046 & L. PHY 2054C and CHS 3501. The study of the polarized light microscope and its use in the identification and comparison of trace evidence.

CHS 3511C AS-CHEM 4(2,6)
Trace Evidence: PR: C or grade of better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence.

CHS 3514C AS-CHEM 3(2,3)
Bombe Scene Investigation: PR: Forensic Science major, CHS 3501 or C.I. Procedures for recognizing, collecting, preserving, and analyzing 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 or grade of better in CHM 3102C. CHM 3410, CHM 2211 & L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances.

CHS 3535C AS-CHEM 3(2,3)
Forensic Biochemistry I: PR: C or better in BSC 2010C, PCB 3063 L, and PCB 3233 & L. Introduction to the concepts and procedures of contemporary forensic biochemistry, including the identification of body fluids and the use of genetic markers to establish identity.

CHS 3540C AS-CHEM 2(1,3)
Fire and Debris Analysis I: PR: CHM 3120C and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence.

CHS 3595 AS-CHEM 3(3,0)
Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings.

CHS 3949 AS-CHEM 0(0,8)
Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded 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 3511C. Modern technology applied to forensic investigation.

CHS 4515C AS-CHEM 4(2,6)
Forensic Crime Scene Investigation: PR: Grade of "C" or better in CHM 3102C, CHS 3511C, CHS 3530C, CHS 3533C and CHS 4506C. Procedures for the investigation of arson, explosives, and crime scenes.

CHS 4532 AS-CHEM 3(3,0)
Interpretation of DNA Evidence: PR: Grade of "C" or better in CHS 3533C. Concepts and principles of genetic data analysis as applied to forensics.

CHS 4534C AS-CHEM 3(1,6)

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.
on dynamics of police/citizen interactions and the police subculture.

CJE 4174 HPA-CJ/LS 4(4,0)
Comparative Justice Systems: PR: CCJ 3024 and C.J.
3510 or C.I. A survey of contemporary foreign criminal justice and differences emerging from various political, cultural and legal systems.

CJE 4410 HPA-CJ/LS 3(3,0)
Community Policing: PR: 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)

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.

CJI 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.

CJI 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.

CJI 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.

CJI 4410 HPA-CJ/LS 3(3,0)
Legal Aspects of the Criminal Court Process: PR: C.J. 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.

CJI 4514 HPA-CJ/LS 3(3,0)

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 3819 HPA-CJ/LS 3(3,0)
Physical Security: PR: C.J. major or minor or C.J/CCJ 3024. Concepts and procedures for the development, implementation, and management of a physical security program and its application to assets protection.

CJT 3821 HPA-CJ/LS 3(3,0)
Practical Security Applications: An examination of basic security principles applied to practical specific security situations encountered in the Central Florida area.

CJT 3842 HPA-CJ/LS 3(3,0)
Special Security Problems: Review and application of basic security principles to retail security, transportation/cargo security, utility security, computer security, and other special security situations.

CJT 4843 HPA-CJ/LS 3(3,0)
Risk Management in Criminal Justice/Private Security: PR: CJT 3804. This course examines the concept of risk management in a criminal justice context.

CLA 3850 AS-PHIL 3(3,0)
Classical Mythology: PR: ENC 1102 and either HUM 2211, REL 3500, WCH 2012, or LIT 2110. Myths of the Greeks & Romans studied through excerpts from ancient sources and experienced through works of art, literature, and music.

CLA 3851 AS-PHIL 3(3,0)
Comparative Mythology: PR: ENC 1102 and either HUM 2230, REL 3500, WCH 2022, LIT 2120, or CLA 3850. Common themes found in the myths of various cultures, theories of their origins, meaning and value in human experience.

CLP 3004 AS-PSYCH 3(3,0)

CLP 3143 AS-PSYCH 3(3,0)
Abnormal Psychology: PR: PSY 3620 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior.

CLP 3302 AS-PSYCH 3(3,0)
Clinical Psychology: PR: PPE 3003 and CLP 3143. An overview of approaches to psychopathology, methods of clinical assessment, and various approaches to individual and group counseling.

CLP 3413 AS-PSYCH 3(3,0)
Contemporary Behavior Therapy: PR: CLP 3143. Emphasis on the underlying principles and the specific intervention procedures which are utilized in contemporary behavior therapy, including treatment strategies for particular behavior disorders.

CLP 3467C AS-PSYCH 3(2,2)
Interpersonal Effectiveness and Group Psychotherapy: PR: PSY 3620. 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)
Health Psychology: PR: CLP 3143, PSE 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 3620 and PSE 3620. 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)
Psychology of Physical Disability: PR: PSY 3620. Psychological aspects of physical disability and rehabilitation. Psychological adjustment, body-mind relationships, family and societal dynamics relative to therapeutic intervention.

CLP 5166 AS-PSYCH 3(3,0)
Advanced Abnormal Psychology: 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.

COM 4240 AS-R/TV 3(1,2)
Corporate/Institutional Video: PR: RTV 3200, RTV 3260 (RTV 3260 may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation.

COM 2347C AS-COMM 1(1,1)
Sports Speaking and Interviewing: PR: SPC 1600. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U.

COM 3011C AS-COMM 3(1,2)
Communication and Human Relations: PR: COM 3311. Introduction to semantics; symbols and meaning and the relationship with human behavior.

COM 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. Theoretical and practical training in effective presentational speaking for business and professions. With Honors consent.

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)

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 1500. How new technologies influence (and are influenced by) communication in a variety of contexts, including organization and interpersonal settings.

COM 4014 AS-COMM 3(3,0)
Gender Issues in Communication: PR: SPC 1600 and Junior Standing. A study of how communication exchanges, both verbal and non-verbal, differ between men and women, and how these differences are manifested.

COM 4461 AS-COMM 3(3,0)
Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts.

COM 4462 AS-COMM 3(3,0)
Conflict Management: PR: COM 3311. The study of communication in everyday conflicts.

COP 2200 ECS-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.

COP 2500C ECS-CS 4(3,1)
Concepts in Computer Science: Fundamental concepts in program design, data structures, algorithms, analysis and a survey of topics in CS. Not open to Computer Science Majors.

COP 3223 ECS-CS 3(3,0)
Introduction to Programming with C: Equivalent to EGN 3210. Programming in C including arrays, pointer manipulation and use of standard C math and I/O libraries.

COP 3330 ECS-CS 3(3,0)
Object Oriented Programming: PR: COP 3223. Object oriented programming concepts (classes, objects, methods, encapsulation, inheritance, interfaces) and the expression of these concepts in the programming languages such as JAVA.

COP 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.

COP 3402C ECS-CS 3(3,0)

COP 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.

COP 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.

COP 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.

COP 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 III: PR: COP 3960 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, CLU). 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 3960 (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 3530C. 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(0,0)
Operating Systems Laboratory: PR: COP 3530C. CR: EEL 4682. 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)

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 5611 ECS-CS 3(3,0)
Operating Systems Design Principles: PR: COP 4600. Structure and functions of operating systems, process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies.

COP 5711 ECS-CS 3(3,0)
Parallel and Distributed Database Systems: PR: COP 4710. Storage management, implementation techniques for parallel DBMSs, distributed DBMS architectures, distributed database design, query processing, multidatabase systems.

COT 3100C ECS-CS 3(3,1)

COT 3100H ECS-CS 3(3,0)
Honors Introduction to Discrete Structures: PR: Permission of Honors and MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphs, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity.

COT 3960 ECS-CS 1(1,0)
CS Foundation Exam: PR: COP 3502C 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 4110 ECS-CS 3(3,0)

COT 4210 ECS-CS 3(3,0)
Discrete Computational Structures: PR: COP 3530C. Introduction to computation theory. A study of the properties of grammars and automata as formal specifications for algorithms and families of languages.

COT 4500 ECS-CS 3(3,0)

COT 4810 ECS-CS 3(3,0)
Topics in Computer Science: PR: COP 3530C 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...
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4020 and COT 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. LR(k) grammars.

COT 5405 EAS-CS 3(3,0)

COT 5507 EAS-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 EAS-CS 3(3,0)
Computational Methods/Linear Systems: PR: COT 4500 and MAS 3106. Mathematical models for linear systems, linear programming, the simplex method, integer and mixed-integer programming, introduction to nonlinear optimization and linearization.

COT 5520 EAS-CS 3(3,0)

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 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 4643 AS-POLS 3(3,0)
Governments 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 1001 AS-ENG 3(3,0)
Imaginative Writing for Non-English Majors: An introduction to imaginative writing for non-English majors. Students will explore a variety of traditional and non-traditional forms of imaginative writing.

CRW 2100 AS-ENG 3(3,0)
Fiction Writing: PR: CRW 3013. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism.

CRW 2300 AS-ENG 3(3,0)
Theory and Practice of Poetic Writing: PR: CRW 3013. 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 Ed major or C.I. Writers present original fictional 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 2900 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)

CRW 3410 AS-ENG 3(3,0)
Writing Scripts: PR: CRW 3013 or C.I. Theory and practice of writing scripts for film and TV.

CRW 3540 AS-ENG 3(3,0)
Literary Magazines: PR: CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature.

CRW 4114 AS-ENG 3(3,0)

CRW 4122 AS-ENG 3(3,0)
Advanced Fiction Writing Workshop: PR: CRW 3012. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4123 AS-ENG 3(3,0)
Science Fiction Writing: PR: CRW 3013. Study of science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments.

CRW 4224 AS-ENG 3(3,0)
Advanced Nonfiction Workshop: PR: CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, 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 3310, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4616 AS-ENG 3(3,0)
Advanced Scriptwriting Workshop: PR: CRW 3410. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. May be repeated for credit.

CRW 5020 AS-ENG 3(3,0)
Graduate Writing Workshop: 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.


CWR 4203C ECS-CEE 3(2,2) Hydrodynamics: PR: CWR 3201 Continuation of CWR 3201. With emphasis on piping networks, pumps, and hydraulic systems. Laboratory work with civil and environmental engineering applications.

CWR 4812C ECS-CEE 3(2,2) Water Resources Design: PR: CWR 4101C, CWR 4203C. Project course for the design of storm water and sewer transmission systems using local and state regulations.

CWR 512S 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 5545 ECS-CEE 3(3,0) Water Resources Engineering: PR: CWR 4101C, CWR 4203C. Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

DAA 2100 AS-THEA 3(2,2) Theatre Modern Dance: PR: DAA 2201C and BFA musical theatre/performance majors. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures.


DAA 2520C AS-THEA 3(2,1) Theatre Tap Dance: PR: Theatre Major or Departmental Consent. Exploration of form, style, and technique in the basic fundamental movements of tap dance. May be repeated for credit.

DAA 2540 AS-THEA 3(2,2) Dance Technique I: PR: or CR:THE 2020 or THE 2030 or departmental consent. The study and application of fundamental dance techniques as they relate to musical theatre dance styles.

DAA 2570C AS-THEA 3(2,1) Theatre Jazz Dance: PR: DAA 2200C, TPP 2170C, B.F.A. Performance/Musical Theatre major. Introduction of the basic movements of American Jazz Dance, including practical class work and Jazz Dance history.

DAA 2571C AS-THEA 3(2,1) Theatre Jazz Dance II: PR: DAA 2570C, B.F.A. musical theatre major. In-depth study of Jazz Dance as a major style of dance, using theory and practice in jazz technique.

DAA 2640 AS-THEA 3(2,2) Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit.

DAE 3370 ED-TLP 3(1,2) Dance and Rhythms: The development of skill proficiency and instructional strategies in rhythmic and dance techniques, and fundamental movement patterns for grades K-12.

DEP 2004 AS-PSYCH 3(3,0) Developmental Psychology: PR: PSY 312. The effects of genetic, psychological, maturational, and social factors on behavior throughout the life cycle.

DEP 3202 AS-PSYCH 3(3,0) Psychology of Exceptional Children: PR: PSY 312. 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 312. 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 personal factors.


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: DEP 5057 and EXP 3404. Graduate status or senior standing or C.I. Advanced survey of 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 3810C ECS-MMAE 2(1,3) Design of Aerospace Experiments: PR: EAS 3800C and EML 3701. Extension of EAS 3800C. Design of experiments in aeronautical/aerospace systems with emphasis on project team activity.


EAS 4134 ECS-MMAE 3(3,0) High-Speed Aerodynamics: PR: EGN 3343, EML 3701, EAS 3800C. Continuation of EAS 3101. Normal and oblique shock waves, nozzles and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies. Viscous boundary layers and applications to the design process.

EAS 4200 ECS-MMAE 3(3,0) Flight Structures: PR: EML 3034 and EML 3601. Fundamental structural and dynamic design of aircraft and space vehicle components. Classical and finite element methods.

EAS 4210 ECS-MMAE 3(3,0) Space Structural Dynamics: PR: EAS 4200 and EML 3312C. Analytical mechanics and linear system theory: Modern approach to control of lumped parameter systems. Review of space structure applications. Use of finite element methods.

EAS 4300 ECS-MMAE 3(3,0) Aerothermodynamics of Propulsion Systems: PR: EAS 4134 or EML 4701. Fundamental analysis and design considerations of propulsion systems. Turbines, ramjets and rockets.
EAS 4400  ECS-MMAE  3(3,0)  Spacecraft Attitude Dynamics:  PR:  EML 3312C. Kinematics and dynamics of rigid and multiphase spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters.

EAS 4505  ECS-MMAE  3(3,0)  Orbital Mechanics:  PR:  EGN 3321, MAP 2302. Two-body problem, orbital equations, orbital transfer, earth satellite operation.

EAS 4700C  ECS-MMAE  3(1,6)  Aerospace Design I:  PR:  EAS 3810C. Application of the design process to the team solution of a state-of-the-art problem. Airplanes and space vehicles, systems and devices are considered.

EAS 4710C  ECS-MMAE  3(1,6)  Aerospace Design II:  PR:  EAS 4700C. Continuation of the design process in the team building and testing of a prototype/model of an airplane, spacecraft, system or device.


EAS 5302  ECS-MMAE  3(3,0)  Direct Energy Conversion:  PR:  EML 3101 and EML 4142. Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photochemicals and magnetohydrodynamics. Analysis and systems design.

EAS 5315  ECS-MMAE  3(3,0)  Rocket Propulsion:  PR:  EAS 4134 or EML 4703. Analysis and design of rocket motors; selection of chemical propellants; liquid and solid propellant rockets.

EAS 5407  ECS-MMAE  3(3,0)  Mechatronic Systems:  PR:  EML 3804C or EAS 3404C. Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications.

EAS 5535  ECS-MMAE  3(3,0)  Engineering Design for Aerospace Vehicles:  PR:  EAS 4700C, EAS 4710C, EML 4501C, EML 4502C, or equivalent. Applications of the design process to aerospace vehicles. A system approach will be emphasized. Techniques for optimizing design requirements will be covered.

ECM 5741C  ECS-ECE  3(2,3)  Microcomputer-based Monitoring and Control Systems:  PR:  EEL 3342C; EEL 4767C or C.I. Machine language programming; software development aids; systems design; interfacing considerations.

ECS 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.

ECS 2013H  BA-ECON  3(3,0)  Honors Principles of Economics I:  PR:  Permission of Honors. Same as ECS 2013 with honors-level content.
ECF 3303 BA-ECON 3(3,0) Economics and the Environment: PR: Economics major or minor, Sophomore standing, and ECO 2013 or ECO 2023. Analytical study of environmental problems from an economic perspective, its relationship to other disciplines, and the international dimension of environmental policy.

ECF 3433 BA-ECON 3(3,0) Transportation Economics: PR: Economics major or minor, ECO 2013 and ECO 2023. Economic characteristics and governmental regulation of public carriers. Consideration of competitive relations between modes of transportation and criteria for public investment in transportation and criteria of public investment in transportation systems.

ECF 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.

ECF 5003 BA-ECON 3(3,0) Comparative Economic Systems: PR: Economics major or minor, Junior standing, ACG 2701, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation.

ECF 4003 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.

ECF 4703 BA-ECON 3(3,0) Managerial Economics: PR: Economics major or minor, Junior standing, ACG 2701, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation.

ECF 4013 BA-ECON 3(3,0) Economic Development: PR: Economics major or minor, ECO 2013 and ECO 2023. The study of problems, theories, and issues of economic development with reference to the third world.

ECF 4204 BA-ECON 3(3,0) The Economies of the Pacific Rim: PR: Economics major or minor, ECO 2013 and ECO 2023. A study of the 'Asian Economic Miracle' examining the relationship between public policies, human resource development, and rapid shared growth.

ECF 4210 BA-ECON 3(3,0) The Chinese Economy: PR: Economics major or minor, ECO 2013, ECO 2023. Economic overview of contemporary China, and review of key issues facing the country.

ECF 4231 BA-ECON 3(3,0) The Japanese Economy: PR: Economics major or minor and 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.

ECF 4303 BA-ECON 3(3,0) Economics of European Integration: PR: Economics major or minor, ECO 2013 and ECO 2023. Presents the development of the European Community, with emphasis on the characteristics of the Single European Act (EC '92).

ECF 4424H 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-IP 3(3,0) Internship I: Elementary: PR: EDG 4323, RED 3012, MAE 2801. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher.

EDE 4943 ED-TLP 7.12(0,35) Internship II (Elementary): PR: EDE 3942. Student teaching in an elementary school under the supervision of a certified classroom teacher. Scheduled concurrent seminars.

EFD 1075 ED-ES 3(3,0) Introduction to Educational Internship: Introduction to educational internship with selected partnership institutions.

EFD 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.

EFD 2283 ED-ES 3(3,0) Introduction to Applications of Technology in Education: Classroom applications of instructional media including computers.

EFD 3120 ED-ES 3(3,0) Observing Child Growth and Development: PR: Admission to the program. Provides a comprehensive introduction to the principles and basic theories of child growth and development from pre-natal development through age eight.

EFD 3307 ED-ES 3(3,0) Learning Environments and Guidance for Young Children: PR: All courses in Block I. CR: All courses in Block II. Developmentally appropriate education materials, strategies, environments, and guidance for young children. Exploration of active learning and the development of young children's self-esteem and self-regulation.

EFD 3601 ED-ES 3(3,0) Professional Ethics in Education: Pedagogical knowledge, awareness of educational process and the analytical skills necessary for responsible public involvement in educational policy making.

EFD 3740 ED-ES 3(3,0) Foundations of Early Childhood Education: PR: Admission to the program. Overview of Early Childhood Education and services for young children and families. Includes historical, philosophical and sociological perspectives; learning theories as related to early childhood.

EFD 4214 ED-ES 3(3,0) Classroom Learning Principles: PR: EDF 2283, Junior standing or C.I. Principles of learning as applied to classroom teaching settings, with emphasis on student development, behavior, self-concept and motivation.

EFD 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.

EFD 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.

EFD 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.

EFD 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.

EFD 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: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Education providing a foundation of leadership, scholar, and service regarding disciplines in the college.

EDG 2701 ED-ES 3(3,0) Teaching Diverse Populations: An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience.

EDG 4323 ED-ES 3(3,0) Professional Teaching Practices: PR: EDF 2005 or C.I. Analysis of teaching strategies for K-12 settings, including higher order thinking, classroom management, alternative assessment and adoption of instruction for diverse student populations.

EDG 4941 ED-ES 1-8(0,1-8) Directed Field Experience: PR: Approval of Professional Laboratory. Field experience in an appropriate educational setting under the direction of a supervising teacher and/or university supervisor.

EDG 4948 ED-ES 3(3,0) Service Learning: PR: Junior standing or C.I. Involvement with community agencies as a foundation of leadership and 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-instructional 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(1,0) Teaching Methods in Engineering: PR: graduate standing in an engineering discipline. This course will cover the basis 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.

EED 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 1-2(0,1-2)
Integration Internships: 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.

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.

ECC 5250 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.

ECC 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.

ECC 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.

ECC 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.

ECC 4244 ED-HSW 2(2,0)
Instructional Strategies and Curriculum for Students with Emotional Handicaps: PR: EEX 2010. 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)
Electric Networks: PR: PHY 2049, MAP 2302. Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform.

EEL 3041 ECS-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 or CSE majors.

EEL 3123C ECS-ECE 4(3,1)

EEL 3306 ECS-ECE 3(3,0)
Semiconductor Devices I: PR: EEL 3004. 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.

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.

EEL 3370 ECS-ECE 3(3,0)

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 CSE majors.

EEL 3552C ECS-ECE 4(3,3)

EEL 3657 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 3120 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

EEL 4130 ECS-ECE 3(3,0)

EEL 4140C ECS-ECE 4(3,3)

EEL 4205 ECS-ECE 3(3,0)

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, transmission lines.

EEL 4309C ECS-ECE 4(3,3)
EEL 4314 ECS-ECE 3(3,0)  

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.

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.

EEL 4515C ECS-ECE 4(3,3)  

EEL 4518 ECS-ECE 3(3,0)  
Satellite Communications: PR: EEL 3552C. The principles of satellite communications, including communications satellites, Earth stations, link analysis, PDMA and TDMA. May be repeated for credit.

EEL 4612 ECS-ECE 3(3,0)  
Introduction to Modern and Robust Control: PR: EEL 3557. Classical control theory including differential equations and Laplace transform techniques, stability analysis, and classical frequency domain design.

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.

EEL 4750 ECS-ECE 3(3,0)  

EEL 4765C ECS-ECE 4(3,3)  

EEL 4787C ECS-ECE 4(3,3)  

EEL 4788C ECS-ECE 4(3,3)  
Computer System Design II: PR: EEL 4776C and EEL 4851C. Continuation of EEL 4776C. Control and datapath design using a hardware description language, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC.
circuit; active circuit design using Gunn, IMPATT, FETS, RDTS, etc.; microwave integrated circuits.

**EEL 5462C** **ECS-ECE** **3(3,1)**
Antenna Analysis and Design: PR: EEL 3470 or equivalent. Fundamentals of antennas; dipole, loops, arrays, apertures, and horns. Analysis and design of various antennas.

**EEL 5513** **ECS-ECE** **3(3,0)**

**EEL 5517** **ECS-ECE** **3(3,0)**
Surface Acoustic Wave Devices and Systems: PR: EEL 3552C. Course discusses SAW technology which includes the physical phenomenon, transducer design and synthesis, filter design and performance parameters. Actual devices and communication systems are presented.

**EEL 5542** **ECS-ECE** **3(3,0)**

**EEL 5547** **ECS-ECE** **3(3,0)**

**EEL 5555C** **ECS-ECE** **3(2,2)**
RF and Microwave Communications: RF and microwave active circuits microstrip amplifier, oscillator, and mixer design and fabrication. Receiver design, noise, familiarization with network and spectrum analyzers.

**EEL 5625** **ECS-ECE** **3(3,0)**
Applied Control Systems: PR: C.I. Designed to develop basic understanding of advanced control methods for non-linear systems described by ordinary and partial differential equations and to expose recent issues and ongoing research issues in the area of MDES.

**EEL 5630** **ECS-ECE** **3(3,0)**

**EEL 5704** **ECS-ECE** **3(3,0)**
Computer Aided Logical Design: PR: EEL 4767C. Design and analysis of sequential logic circuits and systems. Data path and controller design using a hardware description language.

**EEL 5708** **ECS-ECE** **3(3,0)**

**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; multi-context; reconfigurable computing; evolvable hardware.

**EEL 5762** **ECS-ECE** **3(3,0)**

**EEL 5771C** **ECS-ECE** **3(2,3)**
Engineering Applications of Computer Graphics: PR: EGN 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments.

**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 allocation, mobility and location management, handoffs, routing, authentication, call admission control and QoS provisioning, 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 4750 or C.I. Two-dimensional signal processing techniques; pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques.

**EEL 5825** **ECS-ECE** **3(3,0)**
Pattern Recognition: PR: MAP 2302, EGN 3420. Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum decision criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions.

**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 4872 or C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented.

**EEL 5881** **ECS-ECE** **3(3,0)**
Software Engineering I: PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer software for Engineering applications.

**EEL 5891** **ECS-ECE** **3(3,0)**
Continuous System Simulation I: PR: EEL 3657 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 literacy 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: PR: EES 4202C or C.I. and CR: ENV 4561. Analysis, design, and control of biological systems in environmental engineering for water management, bio-energy production, wastewater treatment, and others.

**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, disinfection, scrubbing, neutralization, and others.

**EES 5605** **ECS-ECE** **3(3,0)**
Outdoor Noise Control: PR: C.I. Community noise evaluation and control, legislative standards, instrumentation and measurement, abatement methods, and noise modeling.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>EEX 2010</td>
<td>ED-CFCS 3(3,0) Introductory Special Education: Orientation to the education of children and adolescents with special needs in the schools. The course includes characteristics, trends, mainstreaming, and other issues.</td>
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<td>EEX 3102</td>
<td>ED-CFCS 3(3,0) Language Development and Communication Disorders: PR: Interdisciplinary approach to language development, identification and remediation of communication and language disorders.</td>
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<td>EEX 3221</td>
<td>ED-CFCS 3(3,0) Assessment of Exceptional Students: Formal and informal assessment techniques for screening, placement, program planning, program evaluation, and monitoring of progress of exceptional students.</td>
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<tr>
<td>EEX 3241</td>
<td>ED-CFCS 3(3,0) Methods for Academic Skills for Exceptional Students: PR: EEX 2010, EEX 3864. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I.</td>
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<tr>
<td>EEX 3243</td>
<td>ED-CFCS 3(3,1,0) Techniques for Exceptional Adolescents-Adults: CR: EEX 3241. A study of strategies, basic and functional content, career and vocational educational, and transition planning for adolescents and adults with special needs.</td>
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<tr>
<td>EEX 3450</td>
<td>ED-CFCS 3(3,0) Young Children With Special Needs: Provides an overview of the unique field of early childhood special education, its mission, and approaches to helping young children and their families.</td>
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<td>EEX 3754</td>
<td>ED-CFCS 3(3,0) Parents as Educators: Develop parental awareness of their role in child development and school success. Attention given to social context of parenting and parents as advocates for children.</td>
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<tr>
<td>EEX 3864</td>
<td>ED-CFCS 6(0.16) Internship I: PR: EDG 4323, RED 3012, EEX 2010, EEX 3241. Satisfactory completion of the portfolio. Internship assignment 2 days a week under a certified exceptional education teacher. Half in elementary, half in secondary. Graded S/U.</td>
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<td>EEX 3940</td>
<td>ED-CFCS 3(3,0) Internship I: Exceptional Education: PR: EDG 4323, RED 3012, EEX 3241, EAE 3210. Student teaching exceptional education in secondary school setting under the supervision of a certified classroom teacher.</td>
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<td>EEX 4054</td>
<td>ED-CFCS 2(2,0) Application and Theories for Students with Special Needs: PR: EEX 2010, EDG 4323. Theories and historical foundations for students with specific learning, physical, cognitive, and emotional disabilities.</td>
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<td>EEX 4066</td>
<td>ED-CFCS 3(3,0) Curriculum and Instructional Strategies for Special Needs Students: PR: EEX 2010, EEX 4054, EEX 3241, EDG 4323, RED 3012, LAE 4314, MAE 2901. Development of highly specialized techniques and curricula materials to be used with students with emotional, learning, cognitive and physical disabilities.</td>
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<td>EEX 4601</td>
<td>ED-CFCS 3(3,0) Introduction to Behavior Management: Study of management techniques based on applied behavioral analysis principles for modifying inappropriate behaviors and maintaining appropriate behaviors of exceptional students.</td>
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<td>EEX 4751</td>
<td>ED-CFCS 3(3,0) Parent Involvement in Education: This course prepares students to successfully interact with and involve parents in their child's education.</td>
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<td>EEX 4753</td>
<td>ED-CFCS 3(3,0) Parent/Professional Collaboration: The special educator's role in working with families, regular educators, and other professionals in a collaborative relationship.</td>
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<td>EEX 4943</td>
<td>ED-CFCS 12(0.35) Internship II: PR: Completion of specialization. Satisfactory completion of the portfolio. Full day student teaching under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U.</td>
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<td>EEX 5051</td>
<td>ED-CFCS 3(3,0) Exceptional Children in the Schools: PR: Senior standing or C.I. Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools.</td>
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<td>EEX 5702</td>
<td>ED-CFCS 3(3,0) Planning Curriculum for Pre-kindergarten Children with Disabilities: Focus on curriculum planning, developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities.</td>
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<td>EEX 5750</td>
<td>ED-CFCS 3(3,0) Communication with Parents and Agencies: Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition.</td>
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<td>EGM 1060C</td>
<td>ECS-MMAE 1(1,1) Introduction to the Engineering Profession: PR: New students status or C.I. Overview of academic and professional requirements in various engineering disciplines.</td>
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<td>EGM 1070C</td>
<td>ECS-ECS 1(1,2) Engineering Concepts and Methods: PR: New student status or C.I. Overview of academic and professional requirements in various engineering disciplines.</td>
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<td>EGM 1090C</td>
<td>ECS-MMAE 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program, Seminar for LEAD Scholars in the College of Engineering &amp; Computer Science providing a foundation of leadership, scholarship, and service regarding disciplines in the college.</td>
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<td>EGM 1360</td>
<td>ECS-MMAE 3(3,0) Materials in Today's World: A Survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today's world with emphasis on modern developments and new materials.</td>
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<td>EGM 2815C</td>
<td>ECS-AFROTC 3(2,3) Space Science and Technology: Past, Present, and Future: Introduction to space technology, past, present and future. Applications to modern life.</td>
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<td>EGN 2920C</td>
<td>ECS-IEMS 2(1,1) LEAD Colloquium: PR: C.I., LEAD Scholars Program. Must have completed at least two of the following with a grade of B or better, IDS 1040C, GEB 1001C, EGN 1036C, EDG 1005C or HSC 1913C. 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.</td>
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<td>EGN 3210</td>
<td>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 timing sharing. Engineering applications will be emphasized.</td>
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<td>EGN 3310</td>
<td>ECS-CHE 3(3,0) Engineering Analysis-Statics: PR: PHY 2040; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures.</td>
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<td>EGN 3310H</td>
<td>ECS-CHE 3(3,0) Engineering Analysis-Statics (Honors): PR: Permission of Honors and PHY 2040; 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.</td>
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<td>EGN 3321</td>
<td>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.</td>
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<tr>
<td>EGN 3321H</td>
<td>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.</td>
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<td>EGN 3365</td>
<td>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 &amp; electrical properties, materials characterization techniques.</td>
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UCF Courses and Descriptions

EGN 3373 ECS-ECE 3(3,0)

EGN 3373H ECS-ECE 3(3,0)

EGN 3420 ECS-ECE 3(3,0)
Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting.

EGN 3613 ECS-IEMS 2(2,0)

EGN 3704 ECS-CEE 2(2,0)
Engineering and the Environment: PR: CHS 1440 and MAC 2312. Process engineering for air, energy, water, and land environment and the role of engineering in control of these environments.

EGN 3843 ECS-ECS 3(3,0)
Systems Modeling: PR: COS 1060C or equivalent. Representation of man/machine systems through analytic and computer-based models. Case studies in the analysis and improvement of systems in industry, education, and government.

EGN 4033 ECS-ECS 3(3,0)
Technology and Social Change: PR: History/Humanities Sequence or C.I. Review of existing theories of social change, analysis of the role of technology as related to social change, and study of contemporary events in technology and their possible impact on society.

EGN 4412C ECS-NMAE 3(1,5)
Interdisciplinary Design I: PR: Industrial: EIN 4364C; Comp and Elect: EEL 3307C, EEL 3352C, EEL 3801C; Aero: EAS 3810C; CR: EML 3312C, EAS 3404C; Comp Sci: COT 3980; COP 3530C; Mech: EML 3500, EML 3701, EML 3300C; CR: EML 3312C, EML 3804C. Application of the design process for interdisciplinary students to solve state-of-the-art engineering problems by system analysis, design, integration, manufacture and testing methods.

EGN 4413C ECS-NMAE 3(1,5)
Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I may be repeated for credit.

EGN 4624 ECS-IEMS 3(3,0)
Engineering Administration: PR: Senior standing. Engineering organization and administration; delegation of authority and responsibility; effective use of resources; project management; R and D planning; ethics in professional practice.

EGN 4706C ECS-NMAE 3(2,4)
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 4707C ECS-ECS 3(2,4)
Processing Space-Launch 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-launch system "Inertial Upper Stage." May be repeated for credit.

EGN 4813 ECS-ENT 3(3,0)
Science in History: Examination of the reciprocal relations of science and society from ancient to recent times.

EGN 4814 ECS-ENT 3(3,0)
Technology in History: PR: History/Humanities sequence or C.I. Important developments in engineering and technology and their effect on society and our socio-economic processes.

EGN 4816 ECS-ENT 3(3,0)
Technology Analysis: PR: C.I. Student is introduced to scientific and analytical methods of decision making. Basic modeling, statistical methods and computer usage.

EGN 4823 ECS-ENT 3(3,0)
Topics in Urban Development: Production, distribution, and consumption of various commodities. Engineering relationships to distribution, internal structure, function of urban developments, interrelationships of engineering, social, economic, and cultural phenomena.

EGN 4824 ECS-ENT 3(3,0)
Energy and Society: Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions.

EGN 4825 ECS-ENT 3(3,0)
Environ and Environment: PR: C.I. Environmental factors of importance to people's interaction with the environment; engineering and non-engineering measures to insure improvement and maintenance of environmental quality. Not for engineering students.

EGN 4830 ECS-ENT 3(3,0)
Telecommunications: Telecommunications and its role in contemporary local, national, and international society.

EGN 4931H ECS-ECS 3(3,0)
Engineering Honors Seminar: PR: Permission of Honors and Senior standing and C.I. Introduction of selected group of students in engineering or other fields of science to the methodology commonly employed in research. Students will carry out independent research which will prepare them for graduate study.

EGN 4933 ECS-ECS 1(1,0)
Professional Engineering Practice: PR: Senior standing or C.I. Seminars dealing with current and future global issues within the engineering profession.

EGN 5035 ECS-ECS 3(3,0)
Topics in Technological Development: PR: C.I. Selected topics in the technological development of western civilization including the weight-driven clock, steam engine, electric light, etc.

EGN 55720 ECS-IEMS 3(2,3)
Internal Combustion Engine Analysis and Optimization: PR: EGN 3343 or EGN 3356 or C.I. Internal combustion engine operating principles. Topics covered include engine design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models.

EGN 5840 ECS-ECS 3(3,0)
Small Rocket Applications for Teachers: PR: Admission to Martin Marietta/UCF Academy. Earth and space environments, rocket propulsion, meteorological and environmental measurements, payload launch procedures, orbits and trajectories, safety, model rocket experiments, field trips, student science experiments.

EGN 5855C ECS-IEMS 3(2,2)
Metrology: PR: EIN 4316C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing.

EGN 5858C ECS-IEMS 3(2,1)
Prototyping and Product Realization: PR: Basic knowledge and/or experience in CAD/CAM technology or C.I. Product design and development cycle including design for functionality and manufacturability. Fundamentals, applications and practice of rapid prototyping and reverse engineering techniques.

EIN 3304 ECS-IEMS 2(2,0)
Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility.

EIN 3314C ECS-IEMS 3(2,2)

EIN 3354 ECS-IEMS 3(3,0)
Principles of Cost Engineering: PR: EGN 3613. This course is to provide engineers from all disciplines the background for the cost estimation of engineering systems throughout the product life cycle.

EIN 4116C ECS-IEMS 3(2,2)

EIN 4118C ECS-IEMS 3(2,3)
Industrial Engineering Applications of Computers: PR: EIN 3210 or high level programming language. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises.

EIN 4214 ECS-IEMS 3(3,0)
Safety Engineering and Administration: Analysis of accidents in the industrial operating environment. Application of fault trees, OSHA requirements. Consideration of accident costs and organizational aspects of accident prevention.

EIN 4243C ECS-IEMS 3(2,2)
Human Engineering: PR: EIN 3314C, Senior standing. Man/machine systems; design and conduct of human engineering studies.

EIN 4305C ECS-IEMS 3(2,2)
Industrial Engineering Applications in The Service Industries: PR: EIN 3314C, ESI 4322, ESI 4234 or C.I. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc.

EIN 4333C ECS-IEMS 3(2,3)
Industrial Control Systems: PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments.

EIN 4364C ECS-IEMS 3(2,2)
Industrial Facilities Planning and Design: PR: EIN 3314C, EIN 3354, EIN 4391C. CR:EIN 4355C. Comprehensive design of industrial production systems, including interrelationships of plant location, process
EIN 4391C ECS-IEMS 3(2,2)
Manufacturing Engineering: PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics.

EIN 4400 ECS-IEMS 3(3,0)
Principles of Concurrent Engineering: PR: EGN 3613 or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly.

EIN 4411C ECS-IEMS 3(2,2)
Computer-Aided-Manufacturing: PR: EIN 4391C.
Computer-Aided-Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP).

EIN 4891C ECS-IEMS 3(2,3)
Industrial Engineering Senior Design Project: PR: EIN 4116C. Senior standing. Capstone design course; application of IEMS techniques to real-world design applications.

EIN 5108 ECS-IEMS 3(3,0)
The Environment of Technical Organizations: PR: Graduate status or C.I; EGN 4624 recommended. Presentation and investigation into the principles required to transform technologies into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations.

EIN 5117 ECS-IEMS 3(3,0)
Management Information Systems: PR: C.I. The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS.

EIN 5140 ECS-IEMS 3(3,0)
Project Engineering: PR: Graduate standing or C.I. Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control.

EIN 5248C ECS-IEMS 3(2,2)
Ergonomics: PR: C.I. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipment, and workstations.

EIN 5251 ECS-IEMS 3(3,0)
Human-Computer Interaction: Usability Evaluation: Usability paradigms/principles; cognitive walkthroughs; heuristic, review-based, model-based, empirical and story-board evaluation; techniques; query techniques; laboratory techniques; and field study approaches.

EIN 5255 ECS-IEMS 3(3,0)
Interactive Simulation: PR: Post-Baccalaureate status or C.I. Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment.

EIN 5317 ECS-IEMS 3(3,0)
Training System Design: PR: seniors, post 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.

EIN 5356 ECS-IEMS 3(3,0)
Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle.

EIN 5368C ECS-IEMS 3(2,2)

EIN 5381 ECS-IEMS 3(3,0)
Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support.

EIN 5388 ECS-IEMS 3(3,0)
Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages.

EIN 5392C ECS-IEMS 3(2,2)
Manufacturing Systems Engineering: PR: EIN 4391C or C.I. The integration of manufacturing technologies and information processing concepts into a system for controlling the manufacturing enterprise.

EIN 5415C ECS-IEMS 3(2,2)
Tool Engineering and Manufacturing Analysis: PR: EIN 4411C. Tool materials and design, tolerance technology, theory of metal cutting, and machineability.

EIN 5602C ECS-IEMS 3(2,2)
Expert Systems in Industrial Engineering: Overview of basic concepts, architecture and construction of expert systems in IE. Intelligent simulation training systems, case studies and problems. Laboratory exercises.

EIN 5607C ECS-IEMS 3(3,0)
Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4411C or EML 4535C. or C.I. Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control.

EIN 5936 ECS-IEMS 1(1,0)
Seminar in Industrial Engineering: Doctoral Research: PR: C.I. Essential topics for doctoral research including research areas, skills, funding, proposals, ethics, mentors, seminars, societies, conferences, presentations, interviewing, grants, and publishing.

ELD 4011 ED-CFCS 3(3,0)
Intro to Specific Learning Disabilities: Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices.

ELD 4242 ED-CFCS 3(3,0)
Program Planning for Specific Learning Disabilities: PR: Senior standing. Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities.

ELD 4320 ED-CFCS 4(4,0)

EMA 3000 ECS-MMAE 3(3,0)

EMA 3012C ECS-MMAE 3(2,2)
Experimental Techniques in Mechanics and Materials: PR: EGN 3365. Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treatment, mechanical testing (hardness, tensile, impact, etc.).

EMA 3124 ECS-MMAE 3(3,0)
Design and Selection of Materials: PR: EML 3601, and EGN 3365 or EAS 3706. Relationship between processing, structure and properties of various engineering materials and their selection in engineering design.

EMA 4102 ECS-MMAE 3(3,0)

EMA 4104 ECS-ENT 3(3,0)
Space Environment Technology: PR: MAC 2251, PHY 2053C. The space environment and how it affects manufacturing of space elements to withstand the harsh space environment.

EMA 4223 ECS-MMAE 3(3,0)

EMA 4413 ECS-MMAE 3(3,0)

EMA 4501 ECS-MMAE 3(2,2)
Scanning Electron Microscopy: PR: EGN 3365 or C.I. A review of electron optics, beam/specimen interactions, image formation, x-ray analysis, specimen preparation, microelectronic applications, and crystallography in the SEM.

EMA 4506 ECS-MMAE 3(3,0)
Emerging Materials: PR: EGN 3365, or EAS 3706. Structure, properties and processing of modern emerging materials.

EMA 4516 ECS-MMAE 3(3,0)
Materials Characterization Techniques: PR: EMA 3012C, and EGN 3365 or EAS 3706. Theory and practice of commonly used techniques for characterization of crystal structure, microstructure and chemistry.

EMA 4606 ECS-MMAE 3(3,0)

EMA 4701C ECS-MMAE 3(2,4)
Materials Performance in Space Applications: PR: EGN 3365. Laboratory failure analysis of materials within space-related environments.

EMA 5060 ECS-MMAE 3(3,0)
Polymer Science and Engineering: PR: EGN 3365. Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications.

EMA 5104 ECS-MMAE 3(3,0)

EMA 5106 ECS-MMAE 3(3,0)
Metallurgical Thermodynamics: PR: EGN 3365. Laws of thermodynamics, phase equilibria, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams.
convection heat transfer. Basic energy balances emphasized. Steady state and transient problems, analysis and design of simple heat exchangers.

EML 4220 ECS-MMAE 3(3,0)

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)

EML 4304C ECS-MMAE 2(1,3)
Thermo-Fluids Mechanics I: PR: EML 3303C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments.

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, thermo-fluid, or material problems are considered.

EML 4502C ECS-MMAE 3(1,6)
Engineering Design II: PR: EML 4501C. Continuation of the design process in the team building and testing of a prototype. A test plan and a test report are completed.

EML 4535C ECS-MMAE 3(2,3)
CAD/CAM: PR: EGN 3343, EML 3034, and EML 3601; CR EAS 4200 or EML 3500. CAD/CAM/FE analysis of design principles. Basic concepts. Concurrent engineering approach to production systems and computer-aided design and analysis. Use of in-house software.

EML 4600 ECS-MMAE 3(3,0)

EML 4703 ECS-MMAE 3(3,0)

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.

EML 5060 ECS-MMAE 3(3,0)

EML 5066 ECS-MMAE 3(3,0)

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 5131 ECS-MMAE 3(3,0)

EML 5152 ECS-MMAE 3(3,0)

EML 5211 ECS-MMAE 3(3,0)
Thermal Systems: PR: EML 3500 or EML 4703 or EAS 4200 or C.I. Introduction to sensors; deformation and strain; stress; balance laws; applications in Newtonian fluid dynamics and isothermal linear elasticity.

EML 5224 ECS-MMAE 3(3,0)
Acoustics: PR: EML 4220. CR: EML 5600. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers.

EML 5228C ECS-MMAE 3(3,0)

EML 5237 ECS-MMAE 3(3,0)

EML 5245 ECS-MMAE 3(3,0)
Trailing Edge Theory: PR: EGN 3345, EGM 3331 and EML 3701. Principles of fluid film lubrication (liquid and gas, journal and thrust bearings), contact mechanics (rolling element bearings), design of bearings and load bearing surfaces, friction and wear of materials, tribology.

EML 5271 ECS-MMAE 3(3,0)

EML 5290 ECS-MMAE 3(3,0)

EML 5291 ECS-MMAE 3(3,0)
MEMS Materials: PR: EML 5060, EML 5211, or CI. Introduction of materials that are frequently used for MEMS applications such as silicon, metal, ceramics and polymers. The course will focus on fundamental principles involved in structures and properties of the materials, and their applications in MEMS.

EML 5292 ECS-MMAE 3(3,0)
Fundamental Phenomenon and Scaling laws in Miniature Engineering Systems: PR: EML 5060, EML 5211, or CI. Introduction to meso-, micro-, and nano-scales, and related terminology, constitutive relationships at these scales and how these relationships affect the behavior and performance of systems. Effect of miniaturization on a few common engineering systems.

EML 5311 ECS-MMAE 3(3,0)
System Control: PR: EML 3312C; CR: EML 5060. Modern control theory for linear and non-linear systems; controllability and observability. Linear state feedback and state estimators, compensator design.

EML 5402 ECS-MMAE 3(3,0)
Turbomachinery: PR: EML 5101. EML 4703 or EAS 4134. Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps.

EML 5532C ECS-MMAE 3(2,3)
Computer-Aided Design for Manufacture: PR: EGN 455SC. Builds on introductory material covered in EML 455SC. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems.

EML 5546 ECS-MMAE 3(3,0)

EML 5572 ECS-MMAE 3(3,0)

EML 5587C ECS-MMAE 3(2,3)
Mechanics of Biostructures 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.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling.

EML 5588C ECS-MMAE 3(2,3)
Mechanics of Biostructures II: PR: EML 5587C. Part II of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling.

EML 5605 ECS-MMAE 3(3,0)
Applied HVAC Engineering: PR: EML 4600. Applications of HVAC systems design with the objective of optimizing energy efficiency, humidity control, ventilation and indoor air quality. May be repeated for credit.

EML 5606 ECS-MMAE 3(3,0)
HVAC Systems Engineering: PR: EML 3101. EML 4142, EML 3034. Heating, ventilation, air-conditions and refrigeration principles, system design and analysis. May be repeated for credit.

EML 5713 ECS-MMAE 3(3,0)
UCF Courses and Descriptions

5060. Fluid kinematics; conservation equations; Navier-Stokes equations; boundary layer flow, inviscid flow, circulation and vorticity; low Reynolds number flow; turbulence.

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 4062  ED-HSW 4(4,0)  Teaching Students with Mental Handicaps: PR: EEX 2010. Relationship between the characteristics of students with mental handicaps and specialized instructional materials, strategies and curriculum.

EMR 4372  ED-CFCS 3(3,0)  Curriculum Method and Materials for Retarded Persons: PR: Senior standing. Development of highly specialized techniques, curriculum and materials to be used with students with mental retardation.

ENC 1101  AS-ENG 3(3,0)  Composition I: Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. 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 grammar and mechanics to improve editing for clarity and accuracy in writing.

ENC 2210  AS-ENG 3(3,0)  Writing for the Business Professional: PR: ENC 1102. Junior standing or C.I. Emphasis on clear expository writing, journaling, reports, and articles in the student's declared field of business.

ENC 2411C  AS-ENG 3(2,1)  Digital Literacy for the Liberal Arts: Designed to help students better understand how computer technologies have shaped our culture and ourselves, to become critical consumers of technology, to acquire a critical sensibility regarding the manner in which technology affects and is affected by texts.

ENC 3211  AS-ENG 3(3,0)  Theory and Practice of Technical Writing: PR: ENC 1102. Junior standing, or C.I. Provides definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3211H  AS-ENG 3(3,0)  Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3241  AS-ENG 3(3,0)  Writing for the Technical Professional: PR: ENC 1102. Junior standing, or C.I. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3241H  AS-ENG 3(3,0)  Honors Writing for the Technical Professional: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3250  AS-ENG 3(3,0)  Professional Writing: PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on communication in business writing.

ENC 3310  AS-ENG 3(3,0)  Magazine Writing I: PR: ENC 1102. Intensive practice in description narration, expository and argumentation; control of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing.

ENC 3311  AS-ENG 3(3,0)  Advanced Expository Writing: PR: ENC 1102. Practice of expository writing directed to general reader.

ENC 3995  AS-ENG 3(3,0)  Directed experience in Writing: PR: ENC 1102, C.I. Individualized topics of study and 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-expression.

ENC 4215  AS-ENG 3(3,0)  Techniques of Technical Publications: PR: C.I. Study of new publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction. Introduction of graphics; style, format, layout, and boardwork. Should be taken concurrently with ENC 4294.

ENC 4218  AS-ENG 3(3,0)  Visual Elements in Documentation: PR: ENC 4293. Study and preparation of visuals and graphics in technical writing and documentation; use of computer graphics; slides; transparencies; charts; graphs; drawings.

ENC 4265  AS-ENG 3(3,0)  Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. This course addresses the special demands of writing for the computer industry.

ENC 4275  AS-ENG 3(3,0)  Writing/Consulting: theory & practice: PR: C.I. Theory and practice of assessing and responding to writing from the standpoint of a collaborator, as opposed to evaluator.


ENC 4282  AS-ENG 3(3,0)  International Technical Communication: PR: ENC 3211 or ENC 3241 or C.I. International issues in the field of technical communication including internationalizing documents, user interface design, international collaboration, and rhetorical and logistical challenges.

ENC 4290  AS-ENG 3(3,0)  Usability Testing for Technical Communications: PR: ENC 4293 or C.I. Usability theory and techniques for evaluating manuals, online documentation, and other technical communication genres.

ENC 4293  AS-ENG 3(3,0)  Technical Documentation I: PR: ENC 3211 or ENC 3241. Practice in translating highly technical information to organized documentation: hardware, software, military specifications. Theory of designing and organizing technical manuals. Preparation of proposals. Interview skills.

ENC 4294  AS-ENG 3(3,0)  Technical Documentation II: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student's particular field. Should be taken concurrently with ENC 4215.

ENC 4295  AS-ENG 3(3,0)  Technical Documentation III: PR: ENC 4294. Designing, writing, and illustrating manuals, e.g., repairs, maintenance or users. Project supervised by a member of a student's major department or technical editor of a corporation.

ENC 4312  AS-ENG 3(3,0)  Theory & Practice Persuasive Writing: PR: ENC 1102. A study of the theory and practice of persuasion, including logical, emotional, and ethical appeals.

ENC 4360  AS-ENG 3(3,0)  Nature Writing: PR: ENC 1102. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing.

ENC 4414  AS-ENG 3(3,0)  Studies in Hypertext: PR: ENC 3211 or ENC 3241. Hypertext and the architectures of large scale websites used by industry, government, and education.

ENC 4415  AS-ENG 3(3,0)  Digital Rhetorics and The Modern Dialectic: PR: ENC 1102. This online course explores the development of digital rhetorics through a close reading and analysis of formative rhetorical texts, modern American fiction and films.

ENC 5214  AS-ENG 3(3,0)  Production and Publication Methods: 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: 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 rhetoric-audience relationship, the course studies history and practice of modern rhetorical theory.

ENC 5338 AS-ENG 3(3,0) The Rhetorics of Public Debate: PR: Graduate status or senior standing or C.I. To examine how rhetorical theories further community goals, including activist, political, legislative, and other significant public debates.

ENC 5344 AS-ENG 3(3,0) Proposal Writing: 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 bacc, 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 5474 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, GTA’s will participate in staff development and individual conferences with their mentors.

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 literacy studies.

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, library and systematic approaches to research at the graduate level in language and literature.

ENG 5018 AS-ENG 3(3,0) Literary Criticism: PR: Graduate status or senior standing or C.I. Historical survey of major critics from classical antiquity to the modern era.

ENL 2102 AS-ENG 3(3,0) English Literature I: PR: ENC 1102. Beowulf to 1798.

ENL 2021 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-sea-
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 of - ENV 4562C, ENV 4500C, 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 412C ECS-CEE 3(2,2) Air Pollution Measurements Lab: Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods.

ENV 4120 ECS-CEE 3(3,0) Air Pollution Control: PR: ENV 3001 and CWR 3201. Air resources engineering design, and operation of air pollution control systems.

ENV 4122C ECS-CEE 3(2,2) Air Pollution Control Design: Project course on design of air pollution control equipment and systems.

ENV 4300C ECS-CEE 3(2,2) Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill.

ENV 4341 ECS-CEE 3(3,0) Solid Waste Management: PR: ENV 3001 or C.I. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes.

ENV 4432 ECS-CEE 3(3,0) Potable Water Treatment: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of potable water treatment facilities. May be repeated for credit.

ENV 4531 ECS-CEE 3(3,0) Wastewater Treatment Processes: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of wastewater treatment facilities. May be repeated for credit.

ENV 4561 ECS-CEE 4(4,0) Environmental Engineering - Process Design: PR: ENV 3001 and CWR 3201. Water treatment and wastewater treatment design considerations with effluent and sludge handling, treatment, and disposal.

ENV 4562C ECS-CEE 3(2,2) Environmental Engineering Systems Design: PR: ENV 4561. EES 4202C. Project course on design of water and wastewater treatment plants.

ENV 4563 ECS-CEE 3(3,0) Environmental Control Systems: PR: EGN 3343, 3373, CH 495L. Analysis and design of process control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration.

ENV 5071 ECS-CEE 3(3,0) Environmental Analysis of Transportation Systems: PR: CWR 3201, ENV 3001. Prediction and abatement of pollution from transportation sources. Analysis techniques and environmental laws.

ENV 5116C ECS-CEE 3(2,3) Air Pollution Monitoring: PR: C.I. Air Pollution sampling techniques, equipment, and monitor siting. Emphasis on theory and direct applications in air pollution monitoring.

ENV 5334 ECS-CEE 3(3,0) Characterization of Hazardous Waste Sites: PR: CWR 4010C and ENV 4541 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, N03, DBP3, SOC3s and other contaminants using oxidation, membranes, on 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.


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 3-16(0,3-1) Internship I - Secondary: PR: ECI 3940C. Student teaching in a secondary school under the supervision of a certified classroom teacher.

ESE 5214 ED-TLP 3(3,0) Secondary School Curriculum Improvement I: PR: Regular Certificate or C.I. Secondary school self studies for curriculum projects, accreditation reports, or staff development.


ESE 4234 ECS-EMS 3(3,0) Quality Engineering: PR: STA 3032. Basic concepts and techniques of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering.

ESE 4312 ECS-EMS 3(3,0) Operations Research: PR: STA 3032. Introduction to linear, non-linear, and dynamic programming. Decision analysis, random processes, and queueing. Course covers theory through application and implementation of results.

ESE 4321 ECS-EMS 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-EMS 3(2,3) Systems Simulation: PR: STA 3032, EGN 3210 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used.

ESI 5219 ECS-EMS 3(3,0) Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, nonparametric stats and ANOVA.

ESI 5227 ECS-EMS 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-EMS 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 (DOO), software reliability, reliability in design, and electronic systems reliability.

ESI 5315 ECS-EMS 3(3,0) Research Foundations for IE and OR Modeling: PR: MAP 2302, ESI 5239 or equivalent; ESI 4313; and C.I. Research foundations for IE/OR modeling, including constructive analysis of published research, methods of proof, research foundations in decision theory, optimization, and related areas.

ESI 5316 ECS-EMS 3(3,0) Operations Research: PR: STA 3032. Methods of operations research, including formulation for models and derivation of solutions; linear programming, network models queueing theory, simulation, and nonlinear optimization techniques.

ESI 5359 ECS-EMS 3(3,0) Risk Assessment and Management: PR: ESI 5219 or STA 3032. Problems and complexities involved in risk assessment and management. Selected methodologies are illustrated through realistic applications in engineering and the sciences.

ESI 5419C ECS-EMS 3(2,2) Engineering Applications of Linear and Nonlinear Optimization: PR: ESI 4312 or ESI 5316. Course covers linear and nonlinear optimization applications in production planning, staffing, engineering design, distribution networks, and other engineering areas. Focuses on practicing OR analysts.

ESI 5451 ECS-EMS 3(3,0) Network Based Project Planning, Scheduling, and Control: PR: ESI 4312 or ESI 5316. Probabilistic and deterministic approaches for planning, scheduling, and controlling complex, large-scale projects. PERT, CPM, resource leveling, risk analysis.

ESI 5531 ECS-EMS 3(3,0) Discrete Systems Simulation: PR: STA 3032. Methods for performing discrete systems simulation, including network modeling, will be treated.

EST 3211 ECS-ENT 3(3,0) Wave Photonics: PR: EST 3222, and EET majors. Wave properties of light, interaction with different media, and photonics technologies and systems based on wave nature of light.
Photonic Systems: PR: EST 3213, ECS-ENT 3(3,0) Photonic Sensors and Devices: PR: EST 3213, EST 3211. How light is converted to electrons to incorporate an electronic system. Standard means of detecting light such as photodiodes and charge-coupled devices will be covered.


Programmable Logic Applications and Device Integration: PR: MAC 1105, EET 3085C, or equivalent. Builds on knowledge of logic fundamentals programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocols.

Photonics Communication: PR: EST 4227, EST 4236. The use of light as media for transmission of information. Modulation techniques, light transmission through different mediums, and detection and demodulation.

Photonics: PR: Engineering Technology senior within 18 hours of graduation, C.I. Senior design project course for the BSEE Photonics concentration.

Metrology and Instrumentation: PR: ETG 3541, EET 3050C, or equivalent. An introduction to the basic concepts and terminology of metrology and instrumentation. Theory, procedures and techniques essential to industrial measurement and laboratory practice are covered.

Construction Estimating: PR: MAC 1114, & EGN 1111C or equivalent & ETC 4241C. Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits. Software packages are utilized.


Construction Contracts and Specifications: The role of construction contracts, architectural specifications, product specifications, industry standards and building codes in the process of building construction.


Applied Structural Design I: PR: ETG 3533C.

Introduction to indeterminate analysis. Design of steel members, components and connections. Current code and specification requirements.


Applied CAD: PR: Engineering Drawing and some CAD background. This course in computer-aided drafting/design provides the student with the opportunity to approach detailed and intricate drafting/design problems from a computer perspective.

Applied Engineering Strength of Materials: PR: MAC 1105, MAC 1114, ETG 3541, PHY 2053C, junior standing; CR: MAC 2253 or MAC 2311. Relationship between external forces and members of a structure. Topics include stress, shear, moment, deflections, columns, connections, and Mohr’s circle. May be repeated for credit.

Senior Design Project: PR: ETG 3541, EST 4502C, ETG 3633C or C.I. Engineering Technology senior within 18 semester hours of graduation. Supervised individual or group projects involving project definition, planning, development, testing, and evaluation. Progress reports and a final oral presentation and formal written report are required.


Computer Numerical Controls - Machining Applications: PR: ETI 3351C. Theory of methods and concepts for machining, computer numerical control programs, types of operations, cutting tools, machine tools, and electrical discharge machines. May be repeated for credit.


Computer Applications: PR: MAC 1105, and Junior standing. Standard engineering software packages found in most companies, institutions, and organizations to solve engineering problems.


Technical Sales: PR: Junior standing or C.I. Application of technical knowledge to sales and service. Relationship of technical sales organization to production, customers, and competitors.

Spacecraft Quality Assurance And Testing: PR: PHY 2053C. Quality assurance, reliability, and testing of space hardware and software, with the examination of designing, manufacturing, testing, and operation.

Applied Reliability: PR: ETI 3116. Practical application of reliability concepts and analysis applicable to the design, production and logistics phases of systems and system components.

Applied Logistics: PR: ETI 3116 or C.I. Introduction to logistics. Emphasis on practical applications. Includes systems engineering, cost systems effectiveness, reliability, maintainability, system functional analysis, logistic support analysis, life cycle cost analysis.

Ground System Design: PR: PHY 2053C. Fundamentals of ground system design and operation, its architecture and technology. Cost and performance trade offs in the spacecraft-to-ground communications link and ground system design.

Launch Processing Technology: PR: or CR: ETI 4150 or C.I. Processes and methods in the preparation, integration, and launch of a space payload and launch vehicle. Includes hands-on launch processing activities in a laboratory environment.

Applied Project Management: PR: ETI 3651C. Statement of work, activity decisions, timelines, scheduling, and resource allocation methods. Techniques will be appropriate for large and small projects within commercial, academic, or non-profit organizations.

Technical Administration: PR: ETI 3651C. Techniques of applying management principles to professional positions held by Engineering Technologists. Management functions of planning, organizing, motivating, and controlling, production, sales, and service.

Operations Management for Technologists: PR: ETI 4635, Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MTM are covered.

Applied Facilities Planning and Design: PR: ETI 3421, engineering drawing and senior standing. The design of manufacturing facilities and material handling systems.

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.

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.

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.
UCF Courses and Descriptions

ETI 4837C ECS-ENT 3(1,3) Technology of Small Space Payloads: PR: MAC 2253, PHY 2053C, EET 3085C. 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.

ETI 4838 ECS-ENT 3(3,0) Flight Dynamics Technology: PR: PHY 2053C, Calculus II, CAD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analysis; orbital maneuvering; atmospheric reentry; 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 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 4323C ECS-ENT 4(3,2) Heat Transfer: PR: ETG 3541 or equivalent, MAC 2253 or MAC 2311. An introduction to the basic concepts and applications of conduction, convection and radiation heat transfer. Basic energy balances and their applications are emphasized. Study state and transient phenomena are evaluated, including numerical solutions.

ETM 4331C ECS-ENT 4(3,2) Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311. PHY 2053C or equivalent. An introduction to the basic concepts of hydrostatics and hydrodynamics covering fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid pipes, etc.

ETM 4403C ECS-ENT 3(2,2) Applied Kinematics: PR: ETG 3541 and Engineering Drawing. Analysis and design of machine elements and mechanisms involving velocities and accelerations of components, linkages, gears, and cams.


ETM 4795 ECS-ENT 4(4,0) Applied Air Conditioning: PR: ETM 4331C. Analysis of body comfort, psychometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements.

EUH 2000 AS-HIST 3(3,0) Western Civilization I: A survey of western civilization from ancient to 1648.


EUH 2001 AS-HIST 3(3,0) Western Civilization II: A survey of western civilization from 1648 to present. May be taken before EUH 2000.


EUH 3122 AS-HIST 3(3,0) Medieval Society and Civilization: PR: EUH 2000 and 2001 or C.I.

EUH 3142 AS-HIST 3(3,0) Renaissance and Reformation: PR: EUH 2000 and 2001 or C.I. Influence of Renaissance humanism on arts, letters, and politics; Luther and Protestantism; the Catholic Counter-Reformation and the Thirty Years' War.

EUH 3235 AS-HIST 3(3,0) Romanticism and Realism: PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservatism; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism.

EUH 3242 AS-HIST 3(3,0) Modern Europe and the First World War: A survey of the impact of the democratic institutions, education, transportation, housing, health, mass communications, entertainment, women, and warfare.

EUH 3281 AS-HIST 3(3,0) Second World War and Rebirth of Europe: PR: EUH 2000 and 2001 or C.I. Origins of World War II; Hitler's "New Order" and resistance movements; Cold War; de-Stalinization of Russia; Sovietization of East Central Europe; Western reconstruction, and prosperity.

EUH 3315 AS-HIST 3(3,0) History of Modern Spain: PR: Modern European History (18th-20th century). The evolution of Modern Spain through its key institutions, cultural as well as social movements, and impact of political and intellectual trends, 1700-Present.


EUH 3431 AS-HIST 3(3,0) History of Modern Italy: PR: EUH 2001. The history of modern Italy from the origins of national unification through the post-World War II era.

EUH 3431H AS-HIST 3(3,0) Honors History of Modern Italy: PR: EUH 2001 and consent of Honors. The history of modern Italy from the origins of national unification through the post-World War II era, with honors content.

EUH 3451 AS-HIST 3(3,0) History of Modern France: PR: EUH 2001, EUH 3242 or C.I. The course traces the evolution of France through the study of French political thought, institutional development, social movements, and international roles from 1700-present.

EUH 3651 AS-HIST 3(3,0) War and Society: Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers; influence of military on governments, and international efforts to preserve peace.

EUH 4284 AS-HIST 3(3,0) Fascism and the Totalitarian Dictatorships: PR: EUH 2000 and 2001 or C.I. Totalitarian ideologies, institutions, and practices in Lenin's and Stalin's Russia. Mussolini's Italy, and Hitler's Third Reich; fascist movements in the non-totalitarian states.


EUH 4465 AS-HIST 3(3,0) Hitler's Third Reich: PR: EUH 2000 and 2001 or C.I. German nationalism and militarism; World War I and Versailles Treaty; the Weimar Republic and the rise of the Nazis; Second World War, division and recovery.

EUH 4500 AS-HIST 3(3,0) English History to 1485: PR: EUH 2000 and 2001 or C.I.

EUH 4501 AS-HIST 3(3,0) English History: 1485-1815: PR: EUH 2000 and 2001 or C.I.

EUH 4502 AS-HIST 3(3,0) British History: 1815-Present: PR: EUH 2000 and 2001 or C.I.

EUH 4571 AS-HIST 3(3,0) History of Russia to 1801: PR: EUH 2000 and 2001 or C.I. Kievan State; Mongol Yoke: Development of Muscovite Expansionism and Absolutism; Time of Troubles; Westernization of Russia under Peter I and Catherine; Role of Orthodox Church.

EUH 4574 AS-HIST 3(3,0) History of Russia: 1801-1917: PR: EUH 2000 and 2001 or C.I. Alexander I, Napoleonic Invasion, Revolutionary Movement; Russian Policy toward Central Asia and China; Great Reforms; Russo-Japanese War; Revolution of 1905; Constitutional Period; Triple Entente.


EUH 4582 AS-HIST 3(3,0) 20th Century Russian Diplomatic History: PR: C.I. Russian diplomatic history from the signing of the Entente Cordiale to the aftermath of the Cold War.

EUH 4610 AS-HIST 3(3,0) Women in European Society: From Medieval to Modern: PR: Junior standing or C.I. This course examines the changing situation of women in Europe from the Middle Ages to the twentieth century.

EUH 4620 AS-HIST 3(3,0) European Great Powers: 1815-1914: PR: EUH 2000 and 2001 or C.I. Congress of Vienna, Metternich's system Creamean War, unifications of Italy and Germany, the Bismarckian era, the alliance systems, and the outbreak of World War I.


EUH 5247 AS-HIST 3(3,0) Colloquium in Europe from 1919-1939: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history between 1919 and 1939.

EUH 5285 AS-HIST 3(3,0) Colloquium in Europe Since World War II: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in
European history since WWII.

EUH 5371 AS-HIST 3(3,0)
Colloquium in Spanish History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Spanish history.

EUH 5415 AS-HIST 3(3,0)
Rome and Early Christianity: PR: Graduate standing or C.I. Current trends in historical literature in Christianity from its development as a distinct religion to its relations with and eventual “triumph” within the Roman Empire.

EUH 5546 AS-HIST 3(3,0)
Colloquium in British History: PR: Graduate status or senior standing or C.I. Selected topics in British history. May be repeated for credit when content is different. There is no standard syllabus because content is different with each offering.

EUH 5579 AS-HIST 3(3,0)
Colloquium in Soviet Russia: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Russian History; 1911-present.

EUH 5595 AS-HIST 3(3,0)
Colloquium in Czarist Russia: PR: Graduate status or senior standing or C.I. Selected topics on the literature of Russia under the Czars prior to 1917.

EUH 5608 AS-HIST 3(3,0)
Colloquium in European Intellectual History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of European intellectual history.

EVR 5930 AS-BIOL 1(1,0)
Seminar in Conservation Issues: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Conservation issues.

EVT 3062 ED-TLP 3(3,0)
Professional Role of the Vocational Teacher: PR: EVT 3371 or C.I.

EVT 3312 ED-TLP 3(3,0)
Course Construction in Health Occupations Education: PR: EVT 3365 or C.I. Planning and preparation of materials, managing the laboratory and involvement in appropriate Vocational Student Organizations. Clinical instruction related to vocational education and industry training.

EVT 3365 ED-TLP 3(3,0)
General Methods/Testing Evaluation in Vocational Education: General teaching methods, testing and evaluation. Techniques specific to Vocational Education and Industry Training.

EVT 3367 ED-TLP 3(3,0)
Evaluation of Vocational Instruction: PR: EVT 3371 or C.I. Study, practice, and achievement of competency in assessing student cognitive, affective, and psychomotor performance in vocational education.

EVT 3371 ED-TLP 3(3,0)
Course Construction in Industrial Education: PR: EVT 3365 or C.I. Planning and preparing instructional materials, organizing and managing the Industrial Education laboratory, and involvement in VICA.

EVT 3502 ED-TLP 3(3,0)
Special Needs of Vocational Students: PR: EVT 3365 or C.I. Achievement of teacher competency in meeting the special needs of the handicapped, culturally different, slow-er learner, those with basic skill deficiencies, and those in non-traditional programs.

EVT 4065 ED-TLP 4(4,0)
Principles and Practices in Vocational Education: PR: EVT 3365 or C.I. Study, practice, and achievement of competency in enhancing quality of life of elderly through the implementation of basic human factors principles in environment and task design.

EVT 4169 ED-TLP 3(3,0)
Curriculum Development Techniques for Industry Training: The practical application of fundamental knowledge, important skills, alternative analysis methods, and the critical elements of the trainers analysis tasks.

EVT 4368 ED-TLP 3(3,0)
Advanced Teaching Techniques for Vocational Education: PR: EVT 3365 or C.I. Study, practice, and achievement of techniques including cooperative learning, simulation, instructional modeling and evaluation of instructional effectiveness.

EVT 5260 ED-TLP 2-4(2-4,0)
Cooperative Programs in Vocational Education: PR: Regular Certificate or C.I. Study of cooperative vocational programs and achievement of competencies needed to establish, manage, and coordinate co-op program activities in all vocational areas.

EVT 5561 ED-TLP 2-3(2-3,0)
Student Guidance in the Vocational Program: PR: Basic Teacher Certificate or C.I. Achievement of skills used by teachers as they gather student data, confer with students, and help students plan for employment or further education.

EVT 5817 ED-TLP 2-4(2-4,0)
Management of Vocational Programs: PR: Rank III Certificate or C.I. Study and achievement of selected competencies needed by vocational teachers, supervisors, and local administrators in the management of vocational education programs in the schools.

EXP 3204C AS-PSYCH 4(3,2)

EXP 3304 AS-PSYCH 3(3,0)

EXP 3404 AS-PSYCH 3(3,0)

EXP 3513 AS-PSYCH 3(3,0)

EXP 4507C AS-PSYCH 3(1,4)

EXP 5067 AS-PSYCH 3(3,0)
Human Factors and Aging: PR: Graduate status, post-baccalaureate, or senior standing or C.I. An overview of issues related to enhancing quality of life of elderly through the implementation of basic human factors principles in environment and task design.

EXP 5208 AS-PSYCH 3(3,0)
Sensation and Perception: PR: Graduate status or senior standing or C.I. A study involving human information processing with regard to physical and psychological variables in sensory and perceptual phenomena.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Major</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL 2221</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 2274C</td>
<td>AS-FILM</td>
<td>3(3,2)</td>
<td>Editing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems.</td>
</tr>
<tr>
<td>FIL 2400</td>
<td>AS-FILM</td>
<td>3(2,2)</td>
<td>History of Motion Pictures: The history of motion pictures as art and industry; from 1895 to the present.</td>
</tr>
<tr>
<td>FIL 2532</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3006</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Art of the Cinema: An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound.</td>
</tr>
<tr>
<td>FIL 3102</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3106C</td>
<td>AS-FILM</td>
<td>3(2,3)</td>
<td>Introduction to Scriptwriting: PR: Film majors only. Rudiments of screenwriting, including visual storytelling, story structure, character, dialogue, and introduction to scriptwriting software.</td>
</tr>
<tr>
<td>FIL 3124</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3125</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Short Script II: PR: Film major, FIL 3124. Advanced writing of short scripts in preparation for Capstone 1 and 2 courses.</td>
</tr>
<tr>
<td>FIL 3201C</td>
<td>AS-FILM</td>
<td>3(2,4)</td>
<td>Introduction to Film Production: PR: Film majors, FIL 2107. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production.</td>
</tr>
<tr>
<td>FIL 3211</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Sound Design: PR: Film or Digital Media major. Technical aspects of production and post-production sound recording, editing, and mixing.</td>
</tr>
<tr>
<td>FIL 3252C</td>
<td>AS-FILM</td>
<td>3(3,1)</td>
<td>Cinematic Expression: PR: FIL 2400. Cinematography using video format; study of fundamentals of motion-picture communication, film structure and storytelling.</td>
</tr>
<tr>
<td>FIL 3269</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Cinema Directors: PR: FIL 3503C and Film or Cinema Study Major. Intensive study of the work of selected filmmakers using multiple modes of criticism and author analysis to examine films.</td>
</tr>
<tr>
<td>FIL 3286C</td>
<td>AS-ART</td>
<td>3(2,4)</td>
<td>Introduction to Animation: PR: Animation majors only, and a satisfactory portfolio review or C.I. Introductory computer graphic techniques utilizing microcomputer systems. Techniques include basic paint systems, color cycling and 2D animation.</td>
</tr>
<tr>
<td>FIL 3287C</td>
<td>AS-ART</td>
<td>3(2,4)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3300C</td>
<td>AS-FILM</td>
<td>3(3,1)</td>
<td>Film Documentary: PR: Film majors or Cinema Studies major, FIL 3201C or XXX (Film Production Tech Workshop). The uses and analysis of the non-fiction film.</td>
</tr>
<tr>
<td>FIL 3309</td>
<td>AS-FILM</td>
<td>3(3,1)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3401</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3402</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3410</td>
<td>AS-ART</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3418</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Avant-Garde Cinema: PR: Junior standing or C.I. History and aesthetics of Avant-Garde Cinema with an emphasis on post WWII North American films and filmmakers.</td>
</tr>
<tr>
<td>FIL 3503C</td>
<td>AS-FILM</td>
<td>3(3,1)</td>
<td>Film Theory and Criticism I: PR: FIL 2107 and Film or Cinema Studies major. Major film theories to the Second World War Period.</td>
</tr>
<tr>
<td>FIL 3504C</td>
<td>AS-FILM</td>
<td>3(3,1)</td>
<td>Film Theory and Criticism II: PR: FIL 3503C and Film or Cinema Studies major. Major film theories from Second World War period to present.</td>
</tr>
<tr>
<td>FIL 3510</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3520</td>
<td>AS-LANG</td>
<td>3(3,0)</td>
<td>Italian Film: This course attempts to stimulate and/or study selected Italian film classics from its roots in Art, Theatre, and Novelty Inventions to its roots in Art, Theatre, and Novelty Inventions to its rise as a cinematic force of popular storytelling.</td>
</tr>
<tr>
<td>FIL 3521</td>
<td>AS-LANG</td>
<td>3(3,0)</td>
<td>French Film: The study of French cinema as an art form and the key role of the director. Films are analyzed from structural, social, economic, and historical perspectives with attention to their relationship with French literature. Taught in English.</td>
</tr>
<tr>
<td>FIL 3527</td>
<td>AS-LANG</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 3526</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Converging Media: PR: FIL 3625, Film or Digital Media major. Various technologies and strategies for creative storytelling on the Internet.</td>
</tr>
<tr>
<td>FIL 3525</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Interactive Entertainment: PR: FIL 3201C or IDS 2880 or IDS 3707; 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.</td>
</tr>
<tr>
<td>FIL 3922</td>
<td>AS-FILM</td>
<td>1(1,1)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 4103</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 4111C</td>
<td>AS-FILM</td>
<td>3(2,3)</td>
<td>Feature/TV Writing I: PR: Film major and FIL 3124. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting.</td>
</tr>
<tr>
<td>FIL 4112C</td>
<td>AS-FILM</td>
<td>3(2,3)</td>
<td>Feature/TV Writing II: PR: Film major, FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader’s coverage.</td>
</tr>
<tr>
<td>FIL 4113C</td>
<td>AS-FILM</td>
<td>3(2,3)</td>
<td>Interactive Writing I: PR: Junior Standing, Film major, FIL 3124 or Digital Media major. Writing workshop for experienced scriptwriters, cold readings, preparing calling card script, marketing scripts and funding sources.</td>
</tr>
<tr>
<td>FIL 4114C</td>
<td>AS-FILM</td>
<td>3(3,2)</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 4127C</td>
<td>AS-FILM</td>
<td>3(2,2)</td>
<td>Motion Picture Genre: PR: FIL 2400. Analysis and evaluation of films, including their major genres, directors, styles, and periods.</td>
</tr>
<tr>
<td>FIL 4202C</td>
<td>AS-FILM</td>
<td>3(2,4)</td>
<td>Intermediate Film Production: PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking.</td>
</tr>
<tr>
<td>FIL 4203C</td>
<td>AS-FILM</td>
<td>3(2,4)</td>
<td>Capstone I: PR: FIL 4113C, FIL 3625 or FIL 4228. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. Graded S/U.</td>
</tr>
<tr>
<td>FIL 4207</td>
<td>AS-FILM</td>
<td>3(3,0)</td>
<td>Episodic Production: PR: Film or Animation Majors.</td>
</tr>
</tbody>
</table>
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.

**FIL 4210C AS-FILM 3(2,4)**
**Cinematography II:** PR: Film major, FIL 3201C, FIL 2220. Advanced principles and practices of cinematography.

**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. Graded SU.

**FIL 4212C AS-FILM 3(3,1)**
**Sound Design II:** PR: FIL 2211, 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 4213C AS-FILM 3(3,2)**
**Editing II:** PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing.

**FIL 4223 AS-FILM 3(3,0)**
**Design for Film:** PR: Film major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction.

**FIL 4228 AS-FILM 3(3,0)**
**Directing III:** PR: Film major, FIL 2220 and FIL 4208C. Advanced processes and techniques of directing.

**FIL 4262C AS-FILM 4(3,2)**
**Special Problems in Film Design:** A series of exercises in craft, techniques, and design for film production, including animation.

**FIL 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.

**FIL 4288C AS-ART 3(2,4)**
**Advanced Animation:** PR: Animation majors only, FIL 3268C, FIL 3297C, and a satisfactory portfolio review or C.I. Advanced 3D modeling and animation techniques. Working in small production teams, students will create short animated segments using a high-end 3D animation system. May be repeated for credit.

**FIL 4289C AS-ART 3(2,4)**
**Animation Workshop:** PR: Animation majors only, FIL 3268C, FIL 3297C, FIL 4208C, 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.

**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 4504C AS-FILM 3(2,2)**
**Genre Writing:** PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, horror, western, crime, etc.

**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 who 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 housing, investments, insurance, retirement planning, estate planning, financial services, consumer credit, and tax planning.

**FIN 3303 BA-FIN 3(3,0)**
**Financial Markets:** PR: Finance major, FIN 3403. The role of short and long-term financial markets and financial institutions in capital formation and allocation. Theories and mathematics of interest rates.

**FIN 3403 BA-FIN 3(3,0)**
**Business Finance:** PR: Junior standing and business major or minor, ACG 2021, ACG 2071, ECO 2013 and ECO 2023. With the balance sheet as a reference point, this course provides an introduction and overview of the acquisition, financing, and management of business assets.

**FIN 4314 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 4324 BA-FIN 3(3,0)**
**Commercial Bank Management:** PR: Finance major, FIN 3303. Analysis of the interactions of commercial banking policies and an analysis of current approaches to managing specific bank products.

**FIN 4424 BA-FIN 3(3,0)**
**Advanced Topics in Financial Management:** PR: 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 1:** PR: Finance major, FIN 3403, FIN 3504, and C.I. For UCF Student Managed Portfolio program participants. Provides detailed, rigorous analytical evaluation of Equity portfolio management topics, including risk/return, valuation, forecasting, portfolio construction, and performance appraisal.

**FIN 4522C BA-FIN 4(3,1)**
**Applied Portfolio Management 2:** PR: Finance major, FIN 4521C, and C.I. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing.

**FIN 4533 BA-FIN 3(3,0)**
**Speculative Financial Markets:** PR: Finance major, FIN 3303 and FIN 3504. Study of options, futures, forward, and other speculative markets. Investments traded in these markets are examined analytically. Pricing and hedging models are considered.

**FIN 4604 BA-FIN 3(3,0)**
**International Financial Management:** PR: Finance major, FIN 3504. Analysis of the foreign financial markets and investment, currency futures market, capital budgeting, cash management, evaluation of Eurocurrency market and international bond markets.

**FIN 4730 BA-FIN 3(3,0)**
**Senior Financial Consulting I:** PR: Finance major, FIN 3403, FIN 3503. CR: FIN 4314, FIN 4453. Project management in 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 two semester course sequence. Students must register for both semesters.

**FIN 4941 BA-FIN 3(0,3)**
**Finance Internship:** PR: Finance Major; consent of department chair. Supervised finance-related work experience in a pre-approved sponsoring organization. See
department for information/application. Graded S/U.

FIN 5405 BA-FIN 3(3,0)
Financial Concepts: PR: Acceptance into the graduate program, AGC 5005 and ECO 5005 and ECO 5415 or equivalent. 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(1.5,0)
Financial Foundations: PR: Acceptance to Graduate Study, AGC 5005 and ECO 5006. 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 2040, EDG 4323. Applications of technology in the foreign language classroom including uses of the Web, e-mail, chat, electronic portfolios, electronic curriculum planning tools, and software. May be repeated for credit.

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 or EDG 4325 or EDG 6236, and fluency in target language and English. Methods of planning and teaching foreign language at the secondary level within a communicative framework. Current instructional techniques in listening, speaking, reading, and writing, test design, testing, error correction. May be repeated for credit.

FLE 5335 ED-TLP 3(3,0)
Foreign Language Methods at the Elementary Level: PR: C.I. or FLE 4333 or FLE 5870, EDG 4323 or EDG 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 lower division language courses at university and community college levels.

FLE 5875 AS-LANG 3(3,0)
Computer Application in Teaching Foreign Languages: PR: Graduate 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 Provencal.

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: Introduces the student to French culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language.

FRE 1121 AS-LANG 4(4,1)
Elementary French Language and Civilization II: PR: FRE 1120 or equivalent. Continuation of FRE 1120.

FRE 2200 AS-LANG 3(3,1)
Intermediate French Language and Civilization I: PR: FRE 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

FRE 2201 AS-LANG 3(3,1)
Intermediate French Language and Civilization II: PR: FRE 2200 or equivalent. Continuation of FRE 2200 with emphasis on French civilization.

FRE 2240 AS-LANG 3(3,0)
Intensive French Conversation: PR: One year of French or equivalent. Practical use of the language, leading toward fluency and correctness in speaking.

FRE 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 intonation. Speeches and oral presentations as well as production and delivery of real-life dialogues.

FRE 3780 AS-LANG 3(3,0)
French Phonetics and Diction: French phonology, with emphasis on phonic 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: A 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 3760 AS-LANG 3(3,0)

FRW 3770 AS-LANG 3(3,0)
Francophone Literature: PR: FRE 2201. The literature of
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, Butor, Camus, Mauriac, Malraux and Sartre.

FRW 4310 AS-LANG 3(3,0) Seventeenth Century French Theatre: PR: FRW 3100. Comelle, 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 theatre after WWII, such as the works of Beckett, Camus, Claudel, Giraudoux, Ionesco, and Sartre; different literary approaches will also be used.


FRW 4532 AS-LANG 3(3,0) French Romanticism: PR: FRW 3100. Great poets and dramatists of the Romantic Movement: Hugo, Lamartine, Vigny, Musset, and others.

FRW 4552 AS-LANG 3(3,0) Nineteenth Century French Literature: PR: FRW 3101. Realism and naturalism.

FRW 4820 AS-LANG 3(3,0) Stylistics: PR: FRE 3420 or equivalent. An intense study of textual criticism. An examination of the relationship between language and literature; explicatures and linguistic analysis of literary texts.

FSS 2221C UCF-HOSP 3(3,1) Quantity Food Preparation: Basic principles of food and beverage preparation, service, and menu development.

FSS 3003 UCF-HOSP 3(3,0) Culture and Cuisine: PR: FSS 2221C and HFT 3261. The major historical and geographical developments that have affected the creation of the cuisines of the world.

FSS 3124 UCF-HOSP 3(3,0) Supply and Procurement Management: PR: HFT 1000 and junior standing or C.I. The purchasing procedures, specifications, and controls of food and related products in the hospitality industry.

FSS 3232C UCF-HOSP 3(1,3) Intermediate Techniques of Food Production: PR: HFT 4250C. An advanced food production course which provides the student the opportunity to develop skills in pantry, garde manager, garnishing, and convenience foods and services. Laboratory class.

FSS 4135 UCF-HOSP 3(3,0) Corporate Contract and Managed Services Organizations: PR: HFT 3261. The unique characteristics of managed services including contracting, commodity purchasing, pricing, and revenue management.

FSS 4286C UCF-HOSP 3(3,1) Catering and Banquet Organization: PR: FSS 2221C and junior standing or 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.

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-CEE 3(3,0) Physical Geography: Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution.

GEO 2370 ECS-CEE 3(3,0) Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States.

GEO 2370H ECS-CEE 3(3,0) Resources Geography (Honors): PR: Permission of Honors. Analysis of human management of global resources and the resulting impact on the world's environment.

GEO 3151C AS-LS 4(2,4) GIS for Environmental Studies: PR: CGS 1060C, BSC 2011C. Use of geographic information systems (GIS) for understanding spatial environmental data.

GEO 3470 AS-POLS 3(3,0) World Political Geography: Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy.

GEO 4131C ECS-CEE 3(2,2) Remote Sensing of the Environment: PR: GEO 1200 or C.I. Interpretation and application of remote sensor imagery to physical, economic, and urban analysis.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 2201</td>
<td>AS-LANG 3(3,1) Intermediate German Language and Civilization</td>
<td>PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization.</td>
</tr>
<tr>
<td>GER 2210</td>
<td>AS-LANG 3(3,0) Intensive German Conversation</td>
<td>PR: GER 2201 or equivalent. Practical use of the language, leading toward fluency and correctness in speaking.</td>
</tr>
<tr>
<td>GER 2240</td>
<td>AS-LANG 3(3,0) German Conversation</td>
<td>PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice.</td>
</tr>
<tr>
<td>GER 2270</td>
<td>AS-LANG 6(6,0) Intermediate German Study Abroad</td>
<td>PR: GER 2201 or equivalent. Intermediate German language and culture taught in the native environment.</td>
</tr>
<tr>
<td>GER 2271</td>
<td>AS-LANG 2(2,0) Modern German Civilization Abroad I</td>
<td>PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice.</td>
</tr>
<tr>
<td>GER 3100</td>
<td>AS-LANG 3(3,0) Germany - Past to Present</td>
<td>PR: GER 3760 or GER 3420 or equivalent. Cultural development and geography of 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.</td>
</tr>
<tr>
<td>GER 3272</td>
<td>AS-LANG 2(2,0) Modern German Civilization Abroad II</td>
<td>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.</td>
</tr>
<tr>
<td>GER 3420</td>
<td>AS-LANG 3(3,0) Intensive German Composition</td>
<td>PR: GER 2201 or equivalent. Development of skills in composition.</td>
</tr>
<tr>
<td>GER 3440</td>
<td>AS-LANG 3(3,0) Business German I</td>
<td>PR: GER 2200. Introduction to German business language and practices.</td>
</tr>
<tr>
<td>GER 3441</td>
<td>AS-LANG 3(3,0) Business German II</td>
<td>PR: GER 3440. Continuation of Business German I.</td>
</tr>
<tr>
<td>GER 3470</td>
<td>AS-LANG 6(6,0) Advanced German Study Abroad</td>
<td>PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment.</td>
</tr>
<tr>
<td>GER 3760</td>
<td>AS-LANG 3(3,0) Advanced German Oral Communication</td>
<td>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.</td>
</tr>
<tr>
<td>GER 3780</td>
<td>AS-LANG 3(3,0) German Phonetics and Diction</td>
<td>PR: GER 2240. The fundamental principles of German pronunciation.</td>
</tr>
<tr>
<td>GER 4422</td>
<td>AS-LANG 3(3,0) Advanced German Grammar</td>
<td>PR: GER 3760, or any other 3000 level German course. An accelerated grammar course designated for advanced students of the German language.</td>
</tr>
<tr>
<td>GER 4510</td>
<td>AS-LANG 3(3,0) Life and Culture in Nazi Germany</td>
<td>PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German.</td>
</tr>
<tr>
<td>GER 4520</td>
<td>AS-LANG 3(3,0) Modern Germany</td>
<td>PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to unification and today's Germany.</td>
</tr>
<tr>
<td>GER 4700</td>
<td>AS-LANG 3(3,0) Survey of German Literature</td>
<td>PR: GER 2201 or equivalent. Main literary currents and works from the Middle Ages through 19th Century Romanticism.</td>
</tr>
<tr>
<td>GER 4701</td>
<td>AS-LANG 3(3,0) Survey of German Literature II</td>
<td>PR: GER 2201 or equivalent. Main literary currents and works from 19th Century Realism to the present.</td>
</tr>
<tr>
<td>GER 3370</td>
<td>AS-LANG 3(3,0) Short Story</td>
<td>PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries.</td>
</tr>
<tr>
<td>GER 3480</td>
<td>AS-LANG 3(3,0) German Post-War Literature</td>
<td>PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II.</td>
</tr>
<tr>
<td>GER 4482</td>
<td>AS-LANG 3(3,0) German Children's Literature</td>
<td>PR: GER 2200. A look into the history of German children's literature with a concentration on works after World War II.</td>
</tr>
<tr>
<td>GER 4531</td>
<td>AS-LANG 3(3,0) The Age of Goethe and Schiller</td>
<td>PR: GER 2201. Selected texts of Goethe and Schiller are examined, with particular attention to their relationship to both German classicism and German romanticism.</td>
</tr>
<tr>
<td>GYE 3001</td>
<td>HPA-HPA 3(3,0) Gerontology: An Interdisciplinary Overview</td>
<td>PR: Junior standing or C.I. The study of aging will be presented from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit.</td>
</tr>
<tr>
<td>GYE 5100</td>
<td>HPA-HPA 3(3,0) Women and Healthy Aging</td>
<td>PR: Graduate standing or senior undergraduate. The examination of the health promotion opportunities and bio-psycho-social challenges of women as they age.</td>
</tr>
<tr>
<td>GYE 5600</td>
<td>ED-TLP 3(3,0) Physiology of Aging</td>
<td>PR: BSC 2010C or PCB 3700C or PET 4351 or equivalent. The purpose of this course is to develop the student's understanding of the effects of human aging on various body systems.</td>
</tr>
<tr>
<td>GYE 5648</td>
<td>PSYCH 3(3,0) Geology and its Applications</td>
<td>PR: GER 2200 or equivalent. The study of aging will be presented from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit.</td>
</tr>
<tr>
<td>GLE 3100</td>
<td>AS-CHEM 3(3,0) Geology and its Applications</td>
<td>PR: PET 4351 or equivalent. The study of aging will be presented from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit.</td>
</tr>
<tr>
<td>GYE 4197</td>
<td>AS-ART 3(2,4) Design in Advertising</td>
<td>PR: ART 2201C. Principles and techniques. Not open to art majors specializing in graphic design. Intended for visual arts education majors and general university elective.</td>
</tr>
<tr>
<td>GYE 3100C</td>
<td>AS-ART 3(2,4) Intermediate Graphic Design</td>
<td>PR: GER 1121 or equivalent. Development of skills in composition and visualization through practice.</td>
</tr>
<tr>
<td>GYE 3111C</td>
<td>AS-ART 3(2,4) Computer Graphic Design</td>
<td>PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2206C, ART 2300C, ART 2301C, PGB 2401C, PGB 3100C and a satisfactory portfolio review or C.I. The study of aging will be presented from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit.</td>
</tr>
<tr>
<td>GYE 4119C</td>
<td>AS-ART 3(2,4) Graphic Design</td>
<td>PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGB 2401C, PGB 3100C and a satisfactory portfolio review or C.I. The study of aging will be presented from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit.</td>
</tr>
</tbody>
</table>
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-LANGUAGE 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-LANGUAGE 4(4,0)  
Elementary Hawaiian Language and Culture I: Introduction to Hawaiian culture through the major language skills; listening, speaking, reading and writing.

HAI 1121 AS-LANGUAGE 4(4,0)  

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 3410 AS-JUD 3(3,0)  
Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent. CI. Study and practice of contemporary conversational Israeli Hebrew.

HFT 1000 UCF-HOSP 3(3,0)  
Introduction to the Hospitality and Tourism Industry: An orientation to the hotel, restaurant, and travel industry, and its history, structure, and operating procedures.

HFT 2220 UCF-HOSP 3(3,0)  
Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting.

HFT 2254 UCF-HOSP 3(3,0)  
Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, housekeeping, engineering, front desk, and guest services.

HFT 2403 UCF-HOSP 3(3,0)  

HFT 2500 UCF-HOSP 3(3,0)  
Hospitality and Tourism Marketing: PR: HFT 1000. The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing.

HFT 2750 UCF-HOSP 3(3,0)  
Meeting, Convention And Exposition Industry: Overview of meetings, conventions, and expositions including the roles of organizations and people involved in the businesses that comprise this industry.

HFT 3261 UCF-HOSP 3(3,0)  
Restaurant Management: PR: HFT 1000 and junior standing or CI. Discussion of the topics integral for the successful management of restaurant and food service organizations.

HFT 3273 UCF-HOSP 3(3,0)  
Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare operations and ownership.

HFT 3313 UCF-HOSP 3(3,0)  
Hospitality Physical Plant Management: PR: Junior standing. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry.

HFT 3374 UCF-HOSP 3(3,0)  
Multi Media Applications in Exhibitions: PR: HFT 1000, HFT 2750, or C.I. The management of the audio and visual process of a large exhibition.

HFT 3431 UCF-HOSP 3(3,0)  
Hospitality Industry Managerial Accounting: PR: HFT 2403 and junior standing or C.I. Presentation, interpretation, and analysis of internal and external hospitality industry financial reports affecting management decisions using hospitality industry systems of accounting.

HFT 3444 UCF-HOSP 3(3,0)  
Hospitality Information Systems: PR: 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.

HFT 3471 UCF-HOSP 3(3,0)  
Hospitality Enterprises I: PR: 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.

HFT 3511 UCF-HOSP 3(3,0)  
Convention and Conference Sales: PR: HFT 2750, HFT 2500 and junior standing or C.I. In-depth understanding of the sales process for the convention market. Covers the people, methods, materials and equipment needed.

HFT 3540 UCF-HOSP 3(3,0)  
Guest Services Management I: PR: Junior standing or C.I. The study of making decisions from the guest’s point of view in the hospitality industry.

HFT 3574 UCF-HOSP 3(3,0)  

HFT 3600 UCF-HOSP 3(3,0)  

HFT 3654 UCF-HOSP 3(3,0)  
Franchising in the Restaurant Industry: PR: Restaurant Management Core or C.I. Addresses the legal requirements for franchising, contract rates, responsibilities, size, structure, and history.

HFT 3700 UCF-HOSP 3(3,0)  
Tourism Management: PR: HFT 1000 and junior standing or C.I. Analysis of the tourism phenomenon in contemporary societies. An exploration of major concepts about tourism as an inter-linked industry composed of many sectors within both the private and public sectors.

HFT 3741 UCF-HOSP 3(3,0)  
Meeting Management: PR: HFT 4753 and HFT 4754. The process of meeting planning, from setting objectives to analyzing the success of the event.

HFT 3757 UCF-HOSP 3(3,0)  
Event Management: PR: HFT 1000 and junior standing or C.I. Reviews the role and scope of events in the hospitality industry, as well as the process of planning, organizing, and managing events.

HFT 3770 UCF-HOSP 3(3,0)  
Cruise Line Operations and Management: PR: HFT 1000 and junior standing or C.I. Understanding of cruise company operations and management. Shipboard organization and delivery of the cruise product to the guest.

HFT 3784 UCF-HOSP 3(3,0)  
Amusement Technology: PR: HFT 1000 HFT 4755. Exploration of various technologies utilized by the leisure-based entertainment industry. Includes amusement devices, operational and IT software packages as well as ride and show systems.

HFT 3785 UCF-HOSP 3(3,0)  
Management of Gaming Enterprises: PR: Junior level standing. An in-depth study of gaming-based organizations including cruise ships, Indian reservation casinos, and others. The history and development of gaming organizations, the economics, social, and cultural impact of gaming and managerial challenges and opportunities in the industry.

HFT 3802 UCF-HOSP 3(3,0)  
Catering Management: PR: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service.

HFT 3807 UCF-HOSP 3(3,0)  
Multi-Unit Food Service Operations: PR: HFT 1000 and junior standing or C.I. The strategy and managerial aspects of chain restaurant management, including organization development, brand building, and industry segments.

HFT 3834 UCF-HOSP 3(3,0)  
Topics in Restaurant and Foodservice Management: PR: HFT 3261 and FSS 2221C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry.

HFT 3933 UCF-HOSP 1(1,0)  

HFT 3949 UCF-HOSP 1-5(0,1-5)  
Cooperative Education: Provides paid, pre-professional work experience related to the students’ major while they continue to attend school. Requires achievement of major-related learning objectives.

HFT 3XX UCF-HOSP 3(3,0)  
Reservations Sales & Marketing: PR: HFT 1000, HFT 2500 or C.I. Provides insight to all aspects of planning, performing and measuring room sales activities. Focus will be to manage all distribution channels to maximize profitability.

HFT 4250C UCF-HOSP 3(3,1)  
Hospitality Operations: PR: Junior Standing or C.I. An integration of lodging and food service operations providing students with a comprehensive knowledge of these related content areas; food service lab component.

HFT 4266 UCF-HOSP 3(3,0)  
Restaurant Brand Management: PR: HFT 3261 and jun-
Case Studies in Restaurant Management: PR: HFT 3261 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and foodservice operations.

HFT 4269 UCF-HOSP 3(3,0)
Case Studies in Multi-Unit Restaurant Management: PR: HFT 3261. Restaurant Management. Application of case study methodology to advanced topics in chain or multi-unit restaurant and foodservice operations.

HFT 4274 UCF-HOSP 3(3,0)
Vacation Ownership Resort Management: PR: HFT 1000, HFT 3273, HFT 4522 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the management of vacation resorts.

HFT 4275 UCF-HOSP 3(3,0)
Development of Vacation Ownership Resorts: PR: HFT 2733 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 UCF-HOSP 3(3,0)
Yacht, Country, and City Club Management: PR: HFT 1000 and HFT 3441. An analysis of the leadership styles of restaurant industry founders and executives.

HFT 4281 UCF-HOSP 3(3,0)
Restaurant Leadership Strategies and Tactics: PR: Hospitality Management Core and Restaurant Management Core or C.I. An analysis of the leadership styles of restaurant industry founders and executives.

HFT 4294 UCF-HOSP 3(3,0)
Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry.

HFT 4295 UCF-HOSP 3(3,0)
Leadership and Strategic Management in Hospitality Industry: PR: Completion of Hospitality Management Core group. Principles of strategic decision making in various hospitality and tourism organizations; lectures, class discussions, and group case analysis presentations.

HFT 4298 UCF-HOSP 3(3,0)
Hospitality Business Consulting: PR: HFT 1000 and junior standing or C.I. A systematic approach to Hospitality Management. Students apply their cumulative knowledge in an active learning environment in a small hospitality operation.

HFT 4343 UCF-HOSP 3(3,0)
Hospitality Facilities Planning and Design: PR: HFT 1000, HFT 2254 and junior standing; or C.I. Principles of facility planning, layout and design for dining, kitchen, guest room, lobby, and service areas.

HFT 4375 UCF-HOSP 3(3,0)
Advanced Trade Show Management: PR: HFT 4754 or C.I. Trade show installation, floor management and dismantling/shipping. Pre-event logistics and on-site management of critical success factors.

HFT 4413 UCF-HOSP 3(3,0)
Technology Applications for Hospitality Management: PR: HFT 3444 Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations.
program or C.I. Foundation of profession; release of information; record analysis; numbering and filing systems; standards for long-term care; ambulatory care; and mental health records.

HIM 3116C HPA-HIM 4(3,2)
Health Record Organization and Management: PR: HIM 3006C. Nomenclature/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization

HIM 3809L HPA-HIM 2(0,4)
Professional Practice Experience I: PR: Admission to the professional phase of the Health Information Management Program. Interdepartmental experience; master patient index; introduction to health information management departments in selected health care facilities.

HIM 3816L HPA-HIM 2(0,4)
Professional Practice Experience II: PR: HIM 3809L, HSC 3531. CR: HIM 3116C. Health record assembly and analysis; release of medical information; numbering and filing systems; incomplete record control; retention and retrieval.

HIM 4226C HPA-HIM 5(3,4)
Coding Procedures I: PR: HSC 4550, HSC 3531, or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders.

HIM 4256C HPA-HIM 3(2,2)
Coding Procedures II: PR: HIM 4226C or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; ICD-9-CM; HCPCS; APGs; encoders.

HIM 4344C HPA-HIM 4(3,2)
Health Information Department Management: PR: HIM 3116C, HIM 4226C, CR:HIM 4256C. Principles and mechanics of quality improvement; utilization review; case management and risk management.

HIM 4656C HPA-HIM 3(2,2)
Health Information Management Systems: PR: HSA 4191, HIM 4226C. Vitalization of information systems, management and patient care in the health care industry. systems analysis, system design and project management concepts.

HIM 4676 HPA-HIM 3(3,0)
Professional Development and Issues in Health Information Management: PR: HIM 4344C, HIM 4506. Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers.

HIM 4836L HPA-HIM 2(0,4)
Professional Practice Experience II: PR: HIM 3006C, HIM 3116C, HIM 3809L, HIM 4226C. Inpatient coding; health and vital statistics; JCAHO accreditation; indexing; abstracting; medical staff organization and credentialing.

HIM 4837L HPA-HIM 2(0,4)

HIM 4838 HPA-HIM 5(0,15)
Management Affiliation: PR: All other required courses. Assignment to a selected health care facility serving in an administrative capacity under the direction of a Registered Record Administrator; lab exercises; comprehensive exam.

HIS 3462 AS-HIST 3(3,0)
History of Science: PR: EUH 2000 and EUH 2001 or C.I. Examines past and present science, scientific thought, and the relationship between science and society.

HIS 3949 AS-HIST 0(0,8)
Cooperative Education in History: PR: Departmental permission required before registering. Cooperative education experience in history. May be repeated. Graded SAU.

HIS 4150 AS-HIST 3(3,0)
History and Historians: PR: C.I. A study of European and American historiography. May be repeated once for credit.

HIS 4944 AS-HIST 3(3,0)
Internship in Public History: PR: C.I. The Public History Internship is a one-semester course in which undergraduates serving in public health major and minor in College or C.I. Foundation of profession; release of information; record analysis; numbering and filing systems; incomplete record control; retention and retrieval.

HSP 2701 ED-TLP 3(3,0)

HSP 4722 ED-TLP 3(2,1)
Teaching Elementary School Health and Physical Education: PR: Admission to Phase II or C.I. Organization, practice, and conduct of health (including drug abuse) and physical education programs in the elementary school. Includes field experience.

HSA 3111 HPA-HP 3(3,0)
U.S. Health Care Systems: PR: Major or minor in College of Health or C.I. A survey of the economics, social, and political aspects of the health care system in the United States.

HSA 3111H HPA-HP 3(3,0)
U.S. Health Care Systems Honors: PR: Major or minor in College of Health or C.I. Permit of Honors. A survey of the economics, social, and political aspects of the health care system in the United States. With Honors content.

HSA 3170 HPA-HP 3(3,0)

HSA 3222 HPA-HP 3(3,0)
Long Term Care and Administration: PR: HSA 3111. The clients, services, and administration of long-term care in specific settings. Students complete a service learning component in long-term care organizations.

HSA 3430 HPA-HP 3(3,0)
Health Care Economics: PR: HSA 3111. To provide an application of economic principles to analyze how different economic incentives affect patients, providers, and policy makers behaviors in the delivery of health services.

HSA 3559 HPA-COMD 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.

HSA 4109 HPA-HP 3(3,0)
Principles of Managed Care: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4180, HSA 4191, HSC 4500. Course will introduce the contractual, financial, and practice pattern components of managed care.

HSA 4151H HPA-HP 3(3,0)
Honors Health Care Policy: PR: Permission of Honors and Junior Standing or C.I. Examination of five significant policy issues to enable the student to gain knowledge and understanding of the complexities of health care as a societal issue.

HSA 4180 HPA-H&P 3(3,0)
Organization and Management for Health Agencies: PR: HSA 3111. Organization and management of health care agencies, including procedural applications.

HSA 4191 HPA-HP 3(3,0)
Health Care Automation: PR: HSA 3111, CGS 2100C. Analysis and design of computerized systems for health data and health administration.

HSA 4201 HPA-HP 3(3,0)
Community Health: PR: HSA 3111. Historical, sociocultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies.

HSA 4220 HPA-HP 3(3,0)

HSA 4502 HPA-HP 3(3,0)

HSA 4700 HPA-HP 3(3,0)
Health Sciences Research Methods: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4180, HSA 4191, and HSC 4500. Introduction to research design in the Health Sciences, including design, literature review, testing, analysis, and conclusions.

HSA 4701 HPA-HP 6(6,0)
Introduction to Research in the Health Professions: PR: Senior or post-bac standing. The logic of research and the architecture of basic and applied investigations that are internally and externally reliable and valuable will be stressed.

HSA 5177 HPA-HP 3(3,0)
Foundations of Health Care Finance: PR: Admission to graduate program in HSA or C.I. Preparatory course for graduate students who are not prepared to take the required health care finance course.

HSA 5198 HPA-HP 3(3,0)
Health Care Computer Applications: PR: Graduate status. Overview of health information systems, with an emphasis on computer applications. Discussion of software and hardware requirements.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>HSA 5257</td>
<td>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.</td>
<td>3(3,0)</td>
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<tr>
<td>HSA 5258</td>
<td>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.</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>HSC 1931C</td>
<td>Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Health &amp; Public Affairs providing a foundation of leadership, scholarship, and service regarding disciplines in the college.</td>
<td>2(1,1)</td>
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</tr>
<tr>
<td>HSC 2000</td>
<td>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.</td>
<td>2(2,0)</td>
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</tr>
<tr>
<td>HSC 2100</td>
<td>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.</td>
<td>3(3,0)</td>
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</tr>
<tr>
<td>HSC 2921</td>
<td>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 1931C, EGN 1086, IDS 1040, GES 1001C or EDG 1005C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. May be repeated for credit.</td>
<td>2(2,0)</td>
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<tr>
<td>HSC 3110C</td>
<td>Medical Self Assessment: Development of clinical skills, and understanding of one's health to encourage active participation of individuals in their own health care.</td>
<td>3(2,2)</td>
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<tr>
<td>HSC 3157</td>
<td>Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 3402C</td>
<td>CPR &amp; 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.</td>
<td>3(2,3)</td>
<td></td>
</tr>
<tr>
<td>HSC 3531</td>
<td>Medical Terminology: A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms.</td>
<td>3(3,0)</td>
<td></td>
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<tr>
<td>HSC 3593C</td>
<td>HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease. Topics include: epidemiology &amp; immunology; basic facts; prevention; legal, economic, and ethical issues; psychosocial aspects; substance abuse; sexuality and decision-making.</td>
<td>3(2,2)</td>
<td></td>
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<tr>
<td>HSC 3640</td>
<td>Health Law: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4190. Principles of law as applied to the health field, with special reference to health practices.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 4008</td>
<td>Professional Development in Health Professions: PR: RET 302 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.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 4243</td>
<td>Analysis of Instruction in Health Professions: Development of teaching aids, audiovisuals, learning packages. Course development, questioning strategies, evaluation of didactic and clinical performance.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 4500</td>
<td>Epidemiology: PR: HSA 3111, STA 2014 or STA 2023. A study of the distribution and determination of diseases and injuries in human population.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 4550</td>
<td>Pathophysiologic Mechanisms: PR: ZOO 3370 and PCB 3703C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 4564</td>
<td>Health Care Needs of the Elderly: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4180, HSA 4191, HSA 4500. Overview of the physical and emotional needs of the elderly, including the institutional health care available.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 4653</td>
<td>Health Care Ethics: PR: HSA 3111, HSA 3170, HSA 4201, HSA 4180, HSA 4191, HSA 4500. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making.</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 5317</td>
<td>Health Care: 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.</td>
<td>3(3,0)</td>
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</tr>
<tr>
<td>HSC 5595</td>
<td>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.</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>HUM 2111</td>
<td>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.</td>
<td>3(3,0)</td>
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<tr>
<td>HUM 2211H</td>
<td>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.</td>
<td>3(3,0)</td>
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<tr>
<td>HUM 2230</td>
<td>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.</td>
<td>3(3,0)</td>
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<tr>
<td>HUM 2230H</td>
<td>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.</td>
<td>3(3,0)</td>
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</tr>
<tr>
<td>HUM 3251</td>
<td>Contemporary Humanities: PR: ENC 2102 or C.I. Multicultural study of Philosophy and the arts of the 20th century.</td>
<td>3(3,0)</td>
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<tr>
<td>Course Code</td>
<td>Title</td>
<td>Prerequisites</td>
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<tr>
<td>HUM 4393</td>
<td>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 SU.</td>
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<tr>
<td>HUM 4516</td>
<td>AS-PHIL 3(3,0) Religion and the Arts: PR: One of: HUM 2211, HUM 2230, AH 2050, ARH 2651, or REL 2200. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary.</td>
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<tr>
<td>HUM 4554</td>
<td>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.</td>
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<tr>
<td>HUM 5802</td>
<td>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.</td>
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<tr>
<td>HUM 5803</td>
<td>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.</td>
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<tr>
<td>HUN 2002</td>
<td>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.</td>
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<tr>
<td>HUN 3011</td>
<td>AS-NURS 3(3,0) Human Nutrition: Essentials of nutrition related to the life cycle, including the physiological, psychosocial, and cultural aspects of nutrition and the inter-relationship with disease are emphasized.</td>
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<tr>
<td>HUN 3013</td>
<td>AS-HOSP 3(3,0) Nutrition Concepts and Issues in the Food Service Industry: PR: HFT 4250C or C.I. Introduces basic nutrition concepts. Discusses nutrition concepts and concerns in relation to food preparation and service in the hospitality industry.</td>
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<tr>
<td>HUN 5397</td>
<td>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.</td>
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<tr>
<td>IDH 1040H</td>
<td>AS-HON 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 SU.</td>
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<tr>
<td>IDH 1921</td>
<td>AS-HON 1(2,0) Honors Symposium: Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts.</td>
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<tr>
<td>IDS 1040C</td>
<td>AS-LS 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Arts &amp; Sciences providing a foundation of leadership, scholarship, and service regarding disciplines in the college.</td>
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<tr>
<td>IDS 2041C</td>
<td>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 1010C, HSC 1931C, EGN 1036C, EDG 1005, or EDF 1930C. Experiential leadership in an appropriate setting with the LEAD Scholars Program.</td>
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<tr>
<td>IDS 2680</td>
<td>AS-DIG 3(3,0) Introduction to Digital Media: CR: ENC 1101. The principles, development and prospects for Digital Media, with a focus on the Internet. Students learn to build Web pages as their principal expressive medium in the course. Extensive reading, Internet and library research, several short papers and a team project are required. This course serves as the gateway for the Digital Media program.</td>
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<tr>
<td>IDS 3150</td>
<td>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.</td>
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<tr>
<td>IDS 3683</td>
<td>AS-DIG 3(3,0) Digital Media Production I: PR: IDS 2680 and ART 2600C. Media project planning, organization and execution; group dynamics. Software tools for project planning, scheduling and management.</td>
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<tr>
<td>IDS 3684L</td>
<td>AS-DIG 1(0,3) Digital Media Service I: PR: IDS 3683. Participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation and maintenance assistance with software tools.</td>
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<tr>
<td>IDS 3689C</td>
<td>AS-DIG 4(2,2) Computer as a Medium: PR: IDS 2680. Not for credit for those who have had ART 2300C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and illustrator software to draw from still life arrangements.</td>
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<tr>
<td>IDS 3701C</td>
<td>AS-DIG 2(2,2) Internet Software Design: PR: IDS 2680, COP 2500, COP 3330. Software design for media-rich Internet applications in arts and humanities. User interface, client/server, n-tier architectures, scalability, optimization, streaming, interactive media objects for storytelling and e-commerce.</td>
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<tr>
<td>IDS 3715</td>
<td>AS-DIG 3(3,0) Visual Language of the Moving Image: PR: IDS 3707 or FIL 1007 and C.I. Digital Media, Film or Animation major. Conceptual structure and design of visual storytelling. Principles, mechanics, character development, personality of place, exaggeration and effects.</td>
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<tr>
<td>IDS 3782C</td>
<td>AS-DIG 1(0,3) Assembling Digital Media: PR: IDS 2680. Assembly and editing of images and sounds for use in interactive media. Project oriented.</td>
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<tr>
<td>IDS 4156</td>
<td>AS-LS 3(3,0) Solving Environmental Problems: PR: IDS 3150, ECO 4302, GEO 3151C, GEO 4176C and PUP 2003, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed.</td>
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<tr>
<td>IDS 4681</td>
<td>AS-DIG 3(3,0) Modeling for Realtime Graphics: PR: CAP 4021, ART 2600C or other computer graphics experience and C.I. Principles of construction of 3D models for realtime applications; use of high performance CAD systems; level of detail management, efficiency vs. visual quality for video games and realtime simulation.</td>
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<tr>
<td>IDS 4682L</td>
<td>AS-DIG 3(0,3) Digital Media Project I: PR: IDS 3683. 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.</td>
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<tr>
<td>IDS 4685L</td>
<td>AS-DIG 1(0,3) Digital Media Service II: PR: IDS 3684L. Continued participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded SU.</td>
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<tr>
<td>IDS 4686L</td>
<td>AS-DIG 1(0,3) Digital Media Service III: PR: IDS 4686L. 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.</td>
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<tr>
<td>IDS 4688L</td>
<td>AS-DIG 3(0,3) Internet Interaction: PR: IDS 2680 or CGS 3175 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying esthetic and scientific principles of user interface design. Project oriented.</td>
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<tr>
<td>IDS 4700C</td>
<td>AS-DIG 3(2,2) Digital Media Production II: PR: IDS 3683. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I.</td>
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<tr>
<td>IDS 4703</td>
<td>AS-DIG 3(0,0) Digital Media Project II: PR: IDS 4682. Continuation of IDS 4682.</td>
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<tr>
<td>IDS 4704</td>
<td>AS-DIG 3(3,0) Media for E-Commerce II: PR: IDS 4688C and COP 3330. Server-side programming in Java to support media-rich E-Commerce applications. Project oriented.</td>
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<td>IDS 4705</td>
<td>AS-DIG 3(3,0) Autonomous Media: PR: IDS 3701C. Applications of concepts derived from research on artificial intelligence, to media and the Internet. Project-based.</td>
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<tr>
<td>IDS 4706</td>
<td>AS-DIG 3(3,0) Creative Digital Devices: PR: IDS 3701C and ART 2201C. The physical construction and computer control of electromechanical devices, and the use of software libraries for controlling testbed hardware, for entertainment and creative applications.</td>
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</tbody>
</table>
| IDS 4711C   | AS-DIG 2(2,2) Game Engines: PR: IDS 2680 and C.I. Principles of 3D interactive graphics and simulation as used in "game engines," software systems for building internet or PC-
based shared virtual worlds. Project oriented.

IDS 5145 (2004-2005 Undergraduate Catalog) ECS-ECS Interdisciplinary course in simulation: PR: Calculus, matrix algebra, probability & statistics, high level programming language. An interdisciplinary course on simulation with hands-on experience in discrete event modeling, continuous modeling & shared virtual world. May be repeated for credit.

IDS 5709 AS-DIG 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.


IDS 5718 AS-DIG 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.

IDS 5719 UCF-IDS Quantitative Aspects of Modeling and Simulation: PR: MAC 2411 or equivalent. Introduction to matrix algebra and other discrete mathematics topics for modeling and simulation applications.

INP 3004 AS-PSYCH Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations.

INP 3141C AS-PSYCH 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 Industrial/Organizational Field Work: PR: C.I. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations.

INP 4056 AS-PSYCH Advanced Industrial Psychology: PR: INP 3004 and PSY 3214C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment.

INP 4313 AS-PSYCH Organizational Psychology: PR: INP 3004. Analysis of the psychological principles underlying individual and group behavior in an organizational setting. Topics include group dynamics, leadership and participation, intergroup behavior, and organization development.

INP 5825 AS-PSYCH 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 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 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 International Politics of Africa: PR: Junior standing or C.I. The broad structures and processes of international politics and foreign policy in Africa, with particular attention on U.S.-African relations.

INR 4011 AS-POLS Politics of Globalization: PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization.

INR 4030 AS-POLS 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 International Political Economy: The international politics of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations.

INR 4060 AS-POLS Causes of War: PR: POS 2041 or INR 2002 or C.I. The primary theoretical and empirical research explaining militarized interstate conflict.

INR 4074 AS-POLS 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 4102 AS-POLS American Foreign Policy: Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world.
Focus on integration of applications.

ISM 3530 BA-MAN 3(3,0) Quality & Productivity Management: PR: MIS major or minor, GEB 3601 and MAN 3525. 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 4310. Theory and practice in developing client server applications for business and use of modern development tools. Includes principles of multuser, multiplexor application and implementation.

ISM 4114 BA-MAN 3(3,0) Advanced Business Application Development: PR: MIS major or minor, ISM 4215, CR: ISM 4220, ISM 4313. Theory and practice in developing client-server applications for business and use of modern development tools. Includes principles of multiuser, multiplexor application and implementation.

ISM 4130 BA-MIS 3(3,0) Information Systems Implementation: PR: MIS major or minor, ISM 4133. 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 4215. 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-MAN 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 centralized 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 4400 BA-MAN 3(3,0) Decision Support: PR: MIS major or minor, ISM 3011. Computer-based quantitative models and decision support systems in organizations.

ISM 4431 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>AS-LANG 3(3,0)</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITA 2210</td>
<td>Intensive Italian Conversation</td>
<td>PR: One year of Italian or equivalent. Practical use of the language leading toward fluency and correctness in speaking.</td>
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<tr>
<td>ITA 2240</td>
<td>Italian Conversation</td>
<td>PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture.</td>
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<tr>
<td>ITA 3420</td>
<td>Italian Composition</td>
<td>PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture.</td>
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</tr>
<tr>
<td>ITA 3440</td>
<td>Italian for Business</td>
<td>PR: ITA 2200. Italian language for business purposes.</td>
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</tr>
<tr>
<td>ITA 3472</td>
<td>Renaissance Art Abroad</td>
<td>PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo.</td>
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</tr>
<tr>
<td>ITA 3760</td>
<td>Advanced Italian Oral Communication</td>
<td>PR: ITA 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.</td>
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</tr>
<tr>
<td>ITA 4820</td>
<td>Italian Syntax Abroad</td>
<td>PR: ITA 3420. A study of Italian Syntax for advanced students of Italian.</td>
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</tr>
<tr>
<td>ITT 3480</td>
<td>Study Abroad: Italian Literature in Translation</td>
<td>PR: C.I. Main literary tendencies and authors of Italian literature, taught in the native environment.</td>
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<tr>
<td>ITT 4956</td>
<td>Study Abroad: Modern and Contemporary Italian Culture</td>
<td>PR: Junior standing and C.I. Modern and contemporary Italian culture in the natural environment.</td>
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<tr>
<td>ITW 3100</td>
<td>Survey of Italian Literature</td>
<td>PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries.</td>
<td></td>
</tr>
<tr>
<td>ITW 3101</td>
<td>Survey of Italian Literature</td>
<td>PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present.</td>
<td></td>
</tr>
<tr>
<td>ITW 3100</td>
<td>Dante’s Inferno</td>
<td>PR: ITW 3100. An in-depth study of Dante’s Inferno. In English.</td>
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</tr>
<tr>
<td>JOU 3004</td>
<td>History of American Journalism</td>
<td>Development of mass media, including innovators, and the medias role in the nation’s history.</td>
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<tr>
<td>JOU 3101</td>
<td>Advanced Reporting</td>
<td>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.</td>
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<tr>
<td>JOU 3200</td>
<td>Editing</td>
<td>PR: Journalism major or Magazine Writing</td>
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<tr>
<td>JOU 3202</td>
<td>Editing</td>
<td>PR: Journalism major or Magazine Writing minor, JOU 3200, and a minimum grade of “C” (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout.</td>
<td></td>
</tr>
<tr>
<td>JOU 3510</td>
<td>Magazine Publishing</td>
<td>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.</td>
<td></td>
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<tr>
<td>JOU 4181</td>
<td>Public Affairs Reporting</td>
<td>PR: Journalism major, and a minimum grade of “C” (2.0) in JOU 2100C. Reporting on city, county and state government.</td>
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<tr>
<td>JOU 4224</td>
<td>Magazine Editing and Production</td>
<td>PR: Junior standing or C.I. The magazine industry, including writing and editing skills, and editorial, business, and production requirements.</td>
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<tr>
<td>JOU 4300</td>
<td>Feature Writing</td>
<td>PR: Journalism major or Magazine Writing minor, and a minimum grade of “C” (2.0) in JOU 2100C. Writing feature articles for newspapers and magazines.</td>
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<tr>
<td>JOU 4306C</td>
<td>Critical Writing</td>
<td>PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works.</td>
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<tr>
<td>JOU 4308</td>
<td>Freelance Writing</td>
<td>PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts.</td>
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<tr>
<td>JOU 4340C</td>
<td>On-line Journalism</td>
<td>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.</td>
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<tr>
<td>JST 3120</td>
<td>The Book of Job</td>
<td>PR: Jr standing, ENC 1102. A textual-stylistic study of Book of Job in English translation, exploring the Book of Job as literature, theology and ethics.</td>
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<tr>
<td>JST 3144</td>
<td>Dead Sea Scrolls</td>
<td>PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance.</td>
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<tr>
<td>JST 3126</td>
<td>Modern Jewish Experience</td>
<td>PR: ENC 1102 or C.I. Reading in literature depicting the modern Jewish experience in the past 150 years in the Jewish transition from ghetto and traditional life to modernity in Europe, America and pre-state Israel.</td>
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<tr>
<td>JST 3401</td>
<td>The Jewish People I</td>
<td>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.</td>
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<tr>
<td>JST 3402</td>
<td>The Jewish People II</td>
<td>The life and history of the Jews in the medieval and modern worlds.</td>
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<tr>
<td>JST 3450</td>
<td>Modern Jewish Experience</td>
<td>PR: ENC 1102 or C.I. Reading in literature depicting the modern Jewish experience in the past 150 years in the Jewish transition from ghetto and traditional life to modernity in Europe, America and pre-state Israel.</td>
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<tr>
<td>JST 3550</td>
<td>Introduction of Modernism into Judaism</td>
<td>The transition from traditional Judaism to modern Judaism in the 18th century, as epitomized by Moses Mendelssohn and writers of the Jewish Enlightenment (in translation).</td>
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<tr>
<td>JST 3701</td>
<td>History of the Holocaust</td>
<td>A comprehensive study of the Holocaust from 1933-1945, discussing the persecution of German Jews and the annihilation of the Jews in Europe.</td>
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<tr>
<td>JST 3751</td>
<td>Literature of the Holocaust</td>
<td>A study of the traumatic experience of the Holocaust in Europe as expressed and depicted in contemporary Jewish and Hebrew Literature.</td>
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<tr>
<td>JST 3810</td>
<td>The Jewish National Movement and Roots of Zionism</td>
<td>PR: ITA 2200 or equivalent. Development of on-line journalism materials.</td>
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<tr>
<td>JPN 3760</td>
<td>Advanced Japanese Conversation</td>
<td>PR: JPN 1121 or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse.</td>
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<tr>
<td>JST 3126</td>
<td>Romantic Love in the Bible</td>
<td>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.</td>
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<tr>
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<td>The Jewish People I</td>
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<td>JST 3450</td>
<td>Modern Jewish Experience</td>
<td>PR: ENC 1102 or C.I. Reading in literature depicting the modern Jewish experience in the past 150 years in the Jewish transition from ghetto and traditional life to modernity in Europe, America and pre-state Israel.</td>
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</tr>
</tbody>
</table>
Roots of Zionism and Jewish nationalism and their relationship to modern anti-semitism, through analysis of European Jewish history and society.

JST 3820 AS-JUD 3(3,0) Modern Hebrew Culture: The Development of the State of Israel: Political and ideological struggle for the establishment of the State of Israel, with emphasis on forces which shaped contemporary Israeli society and politics.

LAE 3414 ED-TLP 3(3,0) Literature for Children: PR: Phase I or C.I. General survey of books and materials; criteria for analysis and evaluation; types of books available considered in terms of interests, needs, and abilities of children.

LAE 3414 ED-TLP 3(3,0) Language Arts in the Elementary School: PR: EDG 4232 or C.I. Content, principles, materials, and techniques involved in teaching, speaking, listening, writing, and spelling in the elementary school; organizing for instruction.

LAE 4342 ED-TLP 3(3,0) Teaching Language and Composition: PR: EDG 4232; CR: LAE 4360 and ESE 3940. Techniques and methods in teaching grammar, usage, dialect, and composition; includes meeting the needs of the new English language learner.

LAE 4360 ED-TLP 4(3,2) English Instructional Analysis: PR: EDG 4232. Course objectives for a school curriculum and methods and materials which have special application for teaching English at the middle grades and high school.

LAE 4361 ED-TLP 3(3,0) Literacy Strategies for Middle and High School: PR: EDG 4323 or EVT 3365 Or C.I. Theory, teaching strategies, and resources for effective middle and high school reading programs, to assist pre-service teachers to understand context reading.

LAE 4464 ED-TLP 3(3,0) Survey of Adolescent Literature: This course is designed to explore adolescent literature from both an educational and an historical perspective.

LAE 5195 ED-TLP 3(3,0) CFWP Teacher Consultant: PR: C.I. This course is designed for Fellows of the CFWP Summer Institute who will plan, practice, and present writing inservice components to public schools.

LAE 5295 ED-TLP 1-3(1-3,0) Writing Workshop I: PR: C.I. Students will engage in exploration and practice of effective writing strategies. May include teaching small groups of students. May be repeated for credit.

LAE 5319 ED-TLP 3(3,0) Methods of Elementary School Language Arts: PR: EDG 4232. 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 4232 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. A two-week summer institute for secondary school teachers preparing to teach Advanced Placement courses.

LAE 5415 ED-TLP 3(3,0) Children's Literature in Elementary Education: Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children; integrating literature with elementary curricula.

LAE 5465 ED-TLP 3(3,0) Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people.

LAE 5495 ED-TLP 3(3,0) Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment.

LAH 3130 AS-HIST 3(3,0) Latin American History I: PR: EUH 2000 and 2001 or C.I. The Colonial period.

LAH 3200 AS-HIST 3(3,0) Latin American History II: PR: EUH 2000 and 2001 or C.I. The National period.

LAH 3400 AS-HIST 3(3,0) History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. The Colonial period.

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.

LAH 4742 AS-HIST 3(3,0) The Mexican Revolution: PR: AMH 2020 or C.I. Political and social history of Mexico since 1910 and domination of one party rule over 70 years.

LAH 5713 AS-HIST 3(3,0) Colloquium in U.S.-Latin American Relations: PR: Graduate status or senior standing or C.I. The course will analyze U.S.-Latin American relations from an historical perspective. It will be presented through readings and discussion of selected materials.

LAS 4023 AS-AAS 3(3,0) African Caribbean Experience: PR: Junior standing or C.I. Interdisciplinary study of the evolution of African Caribbean culture, its influence on institutions, social and political movements, and contemporary Caribbean society.

LAT 1120 AS-LANG 4(4,1) Elementary Latin Language and Civilization I: Introduces the student to Latin culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in this language.

LAT 1120H AS-LANG 4(4,1) Honors Elementary Latin Language and Civilization I: PR: Permission of Honors. Introduces the student to Latin culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in this language, with honors-level content.


LAT 1121H AS-LANG 4(4,1) Honors Elementary Latin Language and Civilization II: PR: LAT 1120H or equivalent or permission of Honors. Continuation of LAT 1120H, with honors-level content.


LIN 3640 AS-PSYCH 3(3,0) Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups.

LIN 3716 HPA-COMD 3(3,0) Language Development: Birth Through 8 Years: PR: DEP 2004. Study of the language acquisition process in children from birth through eight years and how meaning is conveyed through sounds, words, and sentences.

LIN 3717 HPA-COMD 3(3,0) Language Development: 9 - 18 Years: PR: LIN 2716. Study of the language acquisition process in children from nine through eighteen years and how meaning is conveyed through sounds, words, and sentences.

LIN 4100 AS-ENG 3(3,0) History of the English Language: PR: ENC 1102 and Sophomore standing. Study of the English language and its development from Anglo-Saxon to Modern.

LIN 4615 AS-ENG 3(3,0) African-American Styles of Communication: PR: Graduate standing or C.I. African-American norms will be contrasted to Anglo-American and other norms with attention given to speech acts, kinesics, proxemics, paralinguistics, and gender roles.

LIN 4643 AS-ENG 3(3,0) Cross Cultural Communication: PR: ENC 1102, Junior standing. Studies of styles of spoken, written, and nonverbal communication of selected cultural groups, including men and women, Afro- and Anglo-Americans, Germans and French, Hispanics, Arabs, and Japanese.

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 3100. Investigation of language study as an aid to understanding literature. Topics include analysis of figurative language, languages as characterization, cohesion, sentence and discourse structure.

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
Honors content.

writing, prose fiction, and popular culture; taught in English.

Caribbean societies have achieved self-expression through documentary

translation.

various languages during the present century, read in

World Literature I: PR: ENC 1102. Poetry, prose, and
drama selected from ancient Hebrew, Greek, and Oriental

literature and from that of Renaissance Europe.

World Literature II: PR: ENC 1102. Readings from

Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen,

Mann, Kafka, Camus, and others.

World Literature II - Honors: PR: Permission of Honors.

Same as LIT 2120, with honors-level content.

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.

Caribbean Literature: PR: ENC 1102. Traces how

Caribbean societies have achieved self-expression through
documentary writing, prose fiction, and popular culture; taught in English.

Honors Caribbean Literature: PR: Permission of Honors and

ENC 1102H or equivalent credit. How Caribbean societies

have achieved self-expression through documentary
documentary writing, prose fiction, and popular culture; taught in English. Honors content.

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.

Science Fiction: PR: ENC 1102. An investigation of sci-

ence fiction as a literary form, together with selected read-

ings.

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.

Ethnic Literature in America: PR: ENC 1102. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States.

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.

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.

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.

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.

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.

Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of pop-
cultural perceptions.

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.

Research Methods - Honors: PR: Permission of Honors.

Introduction to scholarship and practical research in litera-
ture and writing.

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.

Irish Literature: PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish histo-

ry, politics, culture and colonial experience.

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.

Survey of Technical and Scientific Literature: PR: ENC

1102 and Junior Standing or C.I. An analysis of the histori-
cal development of technical and scientific writing from the Renaissance to the present.

Survey of Technical and Scientific Literature: PR: ENC

1102 and Junior Standing or C.I. An analysis of the histori-
cal development of technical and scientific writing from the Renaissance to the present.
Advanced Feminist Theories: PR: Graduate status or senior standing or C.I. Topics in French feminism to "Critical Race Theories.


Advanced Calculus II: PR: MAC 2281 or C.I. Continuation of MAC 2281.

Topics in Advanced Calculus: PR: MAC 2282 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.

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.

Foundations of Analysis: PR: MAC 2282, 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.

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.

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.

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.

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.

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 2285 or MAC 2311. The “NC” grading policy applies to this course.

MAC 2241 AS-MATH 1(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. Applications to differential equations and Laplace Transforms. Applications to engineering technology. Not open to students with credit in MAC 2313 or MAC 2311. 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 C.I. Continuation of MAC 2311.

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 2311H.

MAC 2313 AS-MATH 4(4,0) Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312.

MAC 2313H AS-MATH 4(4,0) Calculus with Analytic Geometry III (Honors): PR: Permission of Honors. Continuation of MAC 2312H.

MAC 3013H 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 4203 AS-MATH 4(4,0) Combinatorics and Graph Theory: PR: MAC 2312 and STA 2023. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and digraphs, trees, path problems, coloring planarity, connectiveness matchings and coverings, applications.

MAC 5205 AS-MATH 3(3,0) Combinatorics and Graph Theory II: PR: MAD 4203, 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: MAC 1105 or MGF 1106. Mathematics appropriate for the elementary school including the six basic sets of numbers, concepts, learning sequences, algorithms, problem-solving techniques, error patterns, number systems, and geometry.

MAE 3430 ED-TLP 3(3,0) Exploring Mathematics: Provides students with the knowledge and skills to design, implement, and facilitate the development of mathematics concepts and skill through an integrated developmentally appropriate curriculum.

MAE 4326 ED-TLP 3(3,0) How Children Learn Mathematics: PR: MAE 2801 or C.I., and admission to Phase II: Instructional strategies, learning activities, the use of manipulatives, lesson planning, evaluation of mathematical learning, and diagnostic techniques.

MAE 4360 ED-TLP 4(3,2) Mathematics Instructional Analysis: PR: EDG 4323. Study of course objectives for the middle grades and high school curriculum and survey of methods and materials which have special application for teaching mathematics.

MAE 5318 ED-TLP 3(3,0)
Current Methods in Elementary School Mathematics:
PR: EDG 4323 or C.I. Students will develop skills in planning and delivering mathematics instruction in grades 4-9. The use of technology, cooperative learning, ESOL, and manipulatives is considered.

MAE 5327 ED-TLP 3(3,0)
Teaching Middle School Mathematics: PR: EDG 6236 or C.I. Students will develop skills in planning and delivering mathematics instruction in grades 5-9. The use of technology, cooperative learning, ESOL, and manipulatives is considered.

MAE 5336 ED-TLP 3(3,0)
Current Methods in Secondary School Mathematics: PR: EDG 4323 or EDG 6236 or C.I. Required special methods course for mathematics 6-12 certification. Assessment, curriculum, technology, practical classroom ideas and activities.

MAE 5935 AS-MATH 3(3,0)
Post-Secondary Mathematics: PR: Graduate status or senior standing or C.I. The course will focus on issues which are faced by teachers of collegiate mathematics. Topics will be selected from teaching issues, program issues, and other issues.

MAN 3025 BA-MAN 3(3,0)
Management of Organizations: PR: Junior standing and business major or minor, ACG 2071, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control.

MAN 3025H BA-MAN 3(3,0)
Honors Management of Organizations: PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023 and ACG 2071. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior, and control. Applicable to honors students.

MAN 3301 BA-MAN 3(3,0)
Management of Human Resources: PR: Management major, MAN 3025, Junior Standing. Provides students with a complete, comprehensive review of essential human resource management concepts and techniques. Applicable to all students of management.

MAN 4029 BA-MAN 3(3,0)
Service Organization Management: PR: Management major, MAN 3025 and ISM 3580. Study of the special characteristics, problems, and methods for managing service-oriented organizations.

MAN 4101 BA-MAN 3(3,0)
Human Relations in Management: PR: Management major, MAN 3025. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of cases and experimental exercises.

MAN 4240 BA-MAN 3(3,0)

MAN 4310 BA-MAN 3(3,0)
Human Resource Management Issues: PR: Management major, Junior standing, MAN 3301. An application-oriented course to give students in the area experiences generally reserved for practitioners in the field of human resource management and labor relations.

MAN 4320 BA-MAN 3(3,0)
Human Resources Recruitment and Selection: PR: Management major, MAN 3301. A concentrated investigation of the methods appropriate to the development, implementation and administration of the staffing process in contemporary organizations.

MAN 4330 BA-MAN 3(3,0)
Compensation Administration: PR: Management major, MAN 3301. Presentation of compensation theory and current pay related issues and their application to the design and administration of pay systems in large and small organizations.

MAN 4350 BA-MAN 3(3,0)
Training and Development: PR: Management major, MAN 3301. This course focuses on training and development activities as performed by organizational specialists. Theory, issues, practices and problems are discussed.

MAN 4401 BA-MAN 3(3,0)
Labor Relations Management: PR: Management major, Junior standing, MAN 3301. The impact of employee organization on labor relations, current problems, conflicts and trends; the development of managerial approaches to achieve labor-management cooperation.

MAN 4521 BA-MAN 3(3,0)
Production Planning and Control: PR: Management major, ISM 3530. In depth study on long-range, intermediate and short-range planning and control methods as applied to a manufacturing organization.

MAN 4600 BA-MAN 3(3,0)
International Management: PR: Management major, GEI 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management.

MAN 4701 BA-MAN 3(3,0)
Business Ethics and Society: PR: Management major, MAN 3025. This course applies the ethics dimension to business decisions in today's complex political, social, economic and technological environment.

MAN 4720 BA-MAN 3(3,0)
Strategic Management: PR: Completion of the remainder of the Core Curriculum, graduate standing, senior, and management major or minor. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities.

MAN 4720H BA-MAN 3(3,0)
Honors Strategic Management: PR: Permission of Honors and Graduating semester. Capstone course integrates and applies management theories, and frameworks to tackle modern organizational planning problems, and opportunities. Honors content.

MAN 4802 BA-MAN 3(3,0)
Entrepreneurship: PR: Management major or minor, MAN 3025, FIN 3403, and MAR 3023. Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and developing a new venture.

MAN 4941 BA-MAN 3(0,3)
Management Internship: PR: Management major, application approval, consent of department chair. Provides student with supervised, management-related work experience in a sponsoring organization. See department for information; application required. NOTE: MAN 4941 may not be counted for restricted elective credit in management. May be repeated for credit.

MAN 5021 BA-MAN 1.5(1.5,0)
Management Foundations: PR: Acceptance to Graduate Study, ACG 5005 and ECO 5006. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control.

MAN 5050 BA-MAN 2(2,0)
Management Concepts: PR: Acceptance in MBA program. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control.

MAN 5867 BA-MAN 3(3,0)
Small Business Institute: PR: C.I. Hands-on small business consulting course. Students are assigned teams and work with a local small business.

MAP 2302 AS-MATH 3(3,0)

MAP 2302H AS-MATH 3(3,0)

MAP 3401 ECS-ENT 3(3,0)
Problem Analysis: PR: MAC 2311 or MAC 2233 or equivalent. Application of computer techniques used in solving selected problems in Engineering Technology.

MAP 4103 AS-MATH 3(3,0)

MAP 4153 AS-MATH 3(3,0)
Vector and Tensor Analysis: PR: MAC 2313 or C.I. Vector calculus. The theorems of Green, Gauss and Stokes. Introduction to tensors. Application in engineering and physical sciences.

MAP 4171 AS-MATH 3(3,0)
Optimization for Actuarial Science: PR: MAC 2312 and STA 2023. Linear and dynamic programming, project scheduling, integer programming, theory of queues and stochastic simulation.

MAP 4307 AS-MATH 3(3,0)

MAP 4363 AS-MATH 3(3,0)

MAP 4364 AS-MATH 3(3,0)
Applied Boundary Value Problems II: PR: MAP 4363 or C.I. Legendre polynomials and Bessel functions. The theory of Sturm-Liouville. Separation of variables. Applications involving the wave equation, heat equation and 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,
MAP 5106 AS-MATH 3(3,0) Introduction to Quantitative Aspects of Modeling and Simulation: PR: MAC 2553, 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 4321, MAP 4363, graduate status or senior standing, or C.I. Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models.

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) Applied Mathematics I: PR: MAP 2302, and graduate status or senior standing or C.I. Hamilton’s principle, Rayleigh-Ritz method, Sturm-Liouville theory, Green’s functions for ordinary differential equations, introduction to integral equations

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.
UCF Courses and Descriptions

**MAS 4301 AS-MATH 3(3,0)**
Algebraic Structures: PR: MHF 3302 or C.I. An introduction to groups, rings and fields.

**MAS 5145 AS-MATH 3(3,0)**
Advanced Linear Algebra and Matrix Theory: PR: MAS 3105, 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 4302 or undergraduate abstract algebra, and graduate status or senior standing or C.I. Group actions, the class equation, Sylow Theorems, polynomial rings, Euclidian domains, principal ideal domains, field extensions, modules, and 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 HPA-M&M 3(3,0)**

**MCB 2005C HPA-M&M 4(3,2)**
Microbiology for Health Professionals: PR: BSC 2010C, CHM 2045C or equivalent. A survey of microbiology for the health professional.

**MCB 3020C HPA-M&M 5(3,4)**
General Microbiology: PR: BSC 2010C, CHM 2205, or CR: CHM 2210. Fundamentals of microbiology, evaluating microbial structure and function, metabolism, growth, genetics, virology environmental control, ecology, pathogenicity; and laboratory techniques.

**MCB 3020H HPA-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 HPA-M&M 3(3,0)**
Pathogenic Microbiology: PR: MCB 3020C or C.I. Microorganisms producing disease in man and other animals; means of transmission; protection against disease.

**MCB 3203L HPA-M&M 1(0,3)**
Pathogenic Microbiology: CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms.

**MCB 3522H HPA-M&M 3(3,0)**

**MCB 4114C HPA-M&M 4(3,3)**
Determinative & Systemic Microbiology: PR: MCB 3020C. MCB 3203. Microbial classification taxonomic rules and nomenclature techniques for identification and interpreting the phyta and taxa of bacteria.

**MCB 4312 HPA-M&M 3(3,0)**
Molecular Biotechnology: PR: MCB 3020. Principles, techniques, and applications of Molecular Biotechnology in genetically modified food, cloning, gene therapy, and forensics; transgenic animals; patents and regulations.

**MCB 4414 HPA-M&M 3(3,0)**
Microbial Metabolism: PR: MCB 3020C and BCH 4054. Interrelationship between cellular structure function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment.

**MCB 4603 HPA-M&M 3(3,0)**
Environmental Microbiology: PR: PCB 3304 and MCB 3020C. Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environments.

**MCB 5205 HPA-M&M 3(3,0)**
Infectious Processes: PR: MCB 3020C or C.I. Discussion of current theories of the infectious process and the response of host cells and tissue to infection.

**MCB 5225 HPA-M&M 3(3,0)**
Molecular Biology of Disease: PR: Graduate standing or C.I. An in-depth study of the molecular biological mechanisms of diseases in experimental animal models and human populations.

**MCB 5505 HPA-M&M 3(3,0)**
Molecular Virology: PR: graduate standing or C.I. An in-depth overview of the fundamental aspects and current concerns in modern virology including HIV, tumor viruses Prion disease, virus-host interaction, genome replication and pathogenesis.

**MCB 5527 HPA-M&M 3(3,0)**
Genetic Engineering and Biotechnology: PR: PCB 3523 and PCB 4524 or C.I. Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems, Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth.

**MCB 5654 HPA-M&M 3(3,0)**
Applied Microbiology: PR: MCB 3020C or C.I. Microbial biochemistry of industrial processes including: economics, screening, scale up, quality control and applied genetics.

**MCB 5932 HPA-M&M 3(3,0)**
Variable Current Topics in Molecular Biology: PR: Graduate standing or C.I. Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit.

**MGF 1106 AS-MATH 3(3,0)**
Finite Mathematics: PR: Intermediate algebra or 2 years of high school algebra or C.I. Introduction to logical structure, sets, probability, geometry, arrays, games. This course is intended for students who are not planning to take further courses in mathematics.

**MHF 2104 AS-MATH 3(3,0)**
Foundations of Discrete Math: PR: 2 years of high school algebra and 1 year of geometry or C.I. Basic mathematical logic, methods of proof in mathematics, and application to elementary discrete structure.

**MHF 3302 AS-MATH 3(3,0)**
Logic and Proof in Mathematics: PR: MAC 2281 or MAC 2312 or MAC 2313. Basic mathematical logic, Methods of proof in mathematics. Application of proofs to elementary mathematical structures.

**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 HPA-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.

**MLS 3305 HPA-M&M 3(3,0)**
Hematology: PR: Admission to the professional phase of the MLS Program or C.I. Overview of the hematopoietic system and disease states associated with blood and bone marrow.

**MLS 3305L HPA-M&M 1(0,6)**
Hematology Lab: PR: MLS 3305C. Practical laboratory procedures routinely performed for analyzing hematologic abnormalities.

**MLS 3705 HPA-M&M 3(3,0)**
Concepts in Education/Management: PR: Admission to professional phase of the MLS Program or C.I. Introduction to laboratory management, health delivery systems, and educational practices in clinical settings.

**MLS 4334C HPA-M&M 3(3,2)**
Hemostasis: Overview of hemostatic and fibrinolytic conditions at the time of disease and the relationship of lab tests to diagnosis.

**MLS 4420C HPA-M&M 1(1,2)**
Clinical Mycology: PR: Admission to the professional phase of the MLS Program or C.I. Introduction to laboratory practice in the isolation and identification of fungi associated with mycotic infections of man.

**MLS 4430C HPA-M&M 2(1,3)**
Clinical Parasitology: PR: Admission to the professional phase of the MLS Program or C.I. Instruction and laboratory practice in the examination and study of clinical material for the detection and identification of animal parasites.

**MLS 4460 HPA-M&M 4(2,6)**
Clinical Pathogenic Microbiology: PR: or CR: MCB 3203 and admission to the professional phase of the MLS program. Isolation and pathogenic bacteria and serological methods; interpretation of abnormal results, with correlation to disease.

**MLS 4505C HPA-M&M 3(3,0)**

**MLS 4550 HPA-M&M 4(2,6)**
Clinical Immunohematology: PR: Admission to the professional phase of the MLS Program or C.I. Investigation of incompatible crossmatches; antibody identification, leukocyte antigens and identification procedures; problem solving.

**MLS 4625 HPA-M&M 3(3,0)**
Advanced Clinical Chemistry I: PR: CHM 2210. Correlation of lab test to specific disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electrolytes, and blood gases.

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MLS 4625L HPA-M&M 1(0,3)
Advanced Clinical Chem I Lab: CR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory.

MLS 4630 HPA-M&M 3(3,0)
Advanced Clinical Chemistry II: PR: Admission to professional phase of MLS or C.I. Correlation of laboratory tests to specific human disease states.

MLS 4630L HPA-M&M 1(0,3)

MLS 4830C HPA-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 practice both in the student lab and affiliate.

MLS 4831C HPA-M&M 4(4,8)
Interpretive & Practical Immunohematology: PR: Admission to the MLS program, MLS 4625C, MLS 4630C. Advanced study of principles of immunohematology. Application and performance of technique to solve problems in blood banking will be included.

MLS 4832C HPA-M&M 4(4,8)
Interpretive & Practical Hematology: PR: Admission to the MLS program, MLS 4625C, MLS 4650C. Advanced study of principles of immunohematology. Application and performance of technique to solve problems in blood banking will be included.

MLS 4833C HPA-M&M 4(4,8)
Diagnostic Microbiology: PR: Admission to the MLS program, MLS 4625C, MLS 4630C. Advanced study of laboratory microbiology and pathophysiologic correlation to hematopoietic disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates.

MLS 4834C HPA-M&M 4(4,8)
Advanced Instrumentation: PR: Admission to the MLS program, MLS 4625C. An examination review & practice of technologies impacting the clinical laboratory to include flow cytometry, PCR, US, robotics. Case studies will be a fundamental part of this course.

MLS 4910 HPA-M&M 1(1,0)
Introduction to Clinical Research: PR: MLS 3202C, MLS 4625C, MLS 4650. Practical application of modern bacterial procedures with clinical specimens to include mycology & virology and appropriate quality control. Clinical practice in both student lab and affiliate.

MLS 4933 HPA-M&M 1(1,0)
Medical Technology Seminar: PR: MLS Senior status. Review of MLS coursework, case study discussions and guest lectures describing employment opportunities. May be repeated for credit.

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 Communication. The legal rights and responsibilities of the mass media.

MMC 4254 AS-COMM 3(3,0)
Ad/Pr campaigns: PR: ADV 3000, PUR 4000 and either PUR 3100 or ADV 4101. Planning and managing communication campaigns that integrate both advertising and public relations strategies.

MMC 4263 AS-COMM 3(3,0)
New Media Technologies: PR: Majors only, RTV 3200. An examination of the technologies impacting the communications media environment and society.

MMC 4300 AS-COMM 3(3,0)
International Media: PR: Junior standing or C.I. The student will analyze different communication systems from around the world. There will be at least six case studies from any of these areas - Asia, Latin American, Western Europe, Middle East, Africa.

MMC 4602 AS-COMM 3(3,0)
Contemporary Media Issues: PR: A minimum grade of "C" (2.0) in JOU 2100C. Relationship between the mass media and society; examination of social and ethical issues and responsibilities of the media’s relationship with government.

MML 1001C ECS-AROT 2(1,1)
Foundations of Officering: Examines the unique duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyze Army values and expected behavior. May be repeated for credit.

MML 1002C ECS-AROT 2(1,1)
Basic Leadership: Presents fundamental leadership concepts and doctrine; practice basic skills that underlie effective problem solving; examine the officer experience.

MML 2101C ECS-AROT 2(1,1)
Individual Leadership Studies: Develops knowledge of self, self-confidence, and leadership skills; develop problem solving and critical thinking skills; apply communication, feedback, and conflict resolution skills.

MML 2102C ECS-AROT 2(1,1)
Leadership and Teamwork: Focuses on self-development guided by knowledge of self and group processes; challenges current beliefs, knowledge and skills.

MML 3201C ECS-AROT 4(3,1)
Leadership and Problem Solving: PR: Junior standing. Examines skills that underlie effective problem solving; analyzes military missions and plan military operations; and executes squad battle drills.

MML 3202C ECS-AROT 4(3,1)
Leadership and Ethics: PR: MML 3201C. Probes leadership responsibilities that foster an ethical command climate; develops cadet leadership competencies; applies principles and techniques of effective written and oral communication.

MML 4301C ECS-AROT 4(3,1)
Leadership and Management: PR: MML 3202C. Discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, apply leadership and problem solving principles to a complex case study/simulation.

MML 4302C ECS-AROT 4(3,1)
Officering: PR: MML 4301C. Capstone course to explore topics relevant to second lieutenants entering the Army; describes legal aspects of decision making and leadership; and analyzes Army organization from tactical to strategic level.

MTG 4212 AS-MATH 4(4,0)
Modern Geometrics: PR: MAC 2311 or C.I. Sets of axioms and finite geometries, groups of transformations, Euclidean motions of 2-space and 3-space, convexity in 2-space and 3-space. Euclidean geometry of polygon and circle, constructible numbers, constructions and non-Euclidean geometry.

MTG 4302 AS-MATH 3(3,0)
Introduction to Topology: PR: MTH 3302 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness.

MTG 5256 AS-MATH 3(3,0)
Differential Geometry: PR: MAA 4227, graduate status or senior standing, or C.I. Differentiable manifolds, tangent space and tangent bundle, flows and vector fields, Lie derivatives, cotangent space and cotangent bundles, Riemann metrics, connections and geodesics, applications in classical mechanics.

MUC 1101C AS-MUSIC 2(1,1)
Composition I: PR: Open to qualified majors and non-music majors with C.I. Creative work in small forms. May be repeated for credit.

MUC 2104C AS-MUSIC 2(1,1)
Composition II: PR: MUC 1101C and Music or composition major. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit.

MUC 3105C AS-MUSIC 2(1,1)
Composition III: PR: MUC 1101C and MUC 2104C. Continuation of Composition II. Competence determined by faculty jury.

MUC 3311 AS-MUSIC 3(2,2)
MIDI Sequencing: PR: Keyboard ability, Junior standing, and C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing.

MUC 4106C AS-MUSIC 2(1,1)
Composition IV: PR: MUC 3105C, 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 specification, syEx, and MIDI machine control.

MUC 4441 AS-MUSIC 3(3,0)
MIDI Sequencing II: PR: MUC 3311, Junior standing, and C.I. Continue of sequencing, sampling, and inactive digital music technology.

MUC 4611C AS-MUSIC 3(2,1)
Computer Animation and Digital Music: PR: MUC 4441 or FIL 3286C and C.I. Music students and computer animation students work collaboratively to produce animation projects with original musical scores and sound effects.

MUC 4612C AS-MUSIC 3(2,2)

MUE 1291 AS-MUSIC 1(0,1)
Classroom Instruments: Instruction in recorder and guitar, as it applies to classroom usage for music educators.

MUE 2040 AS-MUSIC 2(2,0)

MUE 2211 ED-CFCS 3(3,0)
Early Childhood Music and Movement: An examination of the role of music and creative movement in the lives of young children.

MUE 2440 AS-MUSIC 1(0,2)
String Techniques: PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical
MUC 3302 AS-MUSIC Variable Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials.

MUC 4103 AS-MUSIC 2(1,1) Advanced Conducting: PR: C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal procedures, selection of materials and program-building, interpretation of scores, study and performance of selected works. May be repeated for credit.

MUH 2071C AS-MUSIC 1(0,1) World Music Survey and Performance Laboratory: PR: MUT 1121 or C.I. An introduction to different musical cultures including West African, Caribbean, South American, and Asian.

MUH 4211 AS-MUSIC 3(3,0) History and Literature I: PR: MUT 1112. In-depth study of the development of Western musical styles from antiquity to the present.

MUH 4212 AS-MUSIC 3(3,0) History and Literature II: PR: MUH 4211. Continuation of MUH 4211.

MUH 4218 AS-MUSIC 1(1,0) Review of Music History: PR: C.I. A review of music history from Ancient Greece to the present.

MUL 4963 AS-MUSIC 0(1,0) Music History Proficiency Exam: PR: MUH 4212. A comprehensive examination in music history. Required of music majors. May be repeated one time. Graded S/U.

MUL 2010 AS-MUSIC 3(2,1) Enjoyment of Music: PR: Non-music majors only. Designed to develop an understanding of musical principles and techniques for listening to music.

MUL 2016 AS-MUSIC 3(3,0) Evolution of Jazz: Survey of jazz literature and performance.


MUL 3400 AS-MUSIC 2(1,1) Piano Literature: PR: Major in Music or C.I. Survey of stringed keyboard literature from the 16th century to the present, with emphasis on technical, formal and performance problems.

MUL 3401 AS-MUSIC 2(1,1) Piano Literature II: PR: MUL 3400. Continuation of MUL 3400.

MUL 3432 AS-MUSIC 2(2,0) String Literature: PR: Music major and C.I. Survey of string solo/chamber music literature from the 16th century to the present.

MUL 3441 AS-MUSIC 2(2,0) Woodwind Literature: PR: Junior standing, C.I. Music major. Survey of woodwind literature from the 16th century to the present.

MUL 3442 AS-MUSIC 2(2,0) Brass Literature: PR: Music major (Brass). Junior standing, C.I. Survey of brass solo/ensemble literature from 16th century to present.

MUL 3463 AS-MUSIC 2(2,0) Percussion Literature: PR: Music major (Percussion).
MUT 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 ceremony, focusing on the interplay of music and ritual in Buddhism, Daoism, Confucianism, Shamanism.

MUS 3953 AS-MUSIC 0(1,0)
Rectal Performance II: PR: Junior Level Applied Music and C. I. Public recital of 30 minutes to demonstrate performance skills. Graded SU. May repeat one time.

MUS 4293 AS-MUSIC 1(1,0)
Music Theatre Ensemble: PR: Junior standing and C.I. Rehearse, study, and preparation of musical theatre score for pit orchestra and off-stage singers, culminating in public performance with University Theatre. May be repeated for credit.

MUS 4330 AS-MUSIC 2(1,1)
Recording Techniques for Classical Music: PR: MUS 2320 or C.I. Concert hall recording techniques for classical music.

MUS 4347C AS-MUSIC 2(2,2)
Digital Notation: PR: MUC 3311. Work on projects utilizing computer notational software applications.

MUS 4401 AS-MUSIC 2(1,1)
Studio Teaching: PR: C.I. Management of the music studio; responsibilities and techniques of private instruction for the studio teacher, principles of psychology of music. May be repeated for credit.

MUS 4543C AS-MUSIC 5(3,2)
Music Project II: PR: MUC 3311 and MUC 4441, or C.I. Individual work on media related audio projects with emphasis on artist/technical skills.

MUS 4635C AS-MUSIC 3(2,2)

MUS 4645C AS-MUSIC 3(2,2)
Music Post Production Techniques: PR: MUC 3311, MUC 4441, MUC 4612C, MUC 4625C. Audio and video film post production process with the video recording format. Audio and multi-media technologies will be used in the synchronization of SMPTE time code.

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)
Rectal Performance II: PR: Senior level applied music and C.I. Public recital of 45 minutes to demonstrate performance skills. Graded SU. May repeat one time.

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 IA: PR: MUT 1242. Continuation of MUT 1242. Intended to be taken with MUT 2116.

MUT 2247 AS-MUSIC 1(0,2)
Ear Training and Sight Singing IB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117.

MUT 2960 AS-MUSIC 0(1,0)

MUT 2961 AS-MUSIC 0(1,0)

MUT 2962 AS-MUSIC 0(1,0)

MUT 3170 AS-MUSIC 2(1,1)
Jazz Theory I: PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242. Examine traditional harmony, melody, and rhythm.

MUT 3171 AS-MUSIC 2(1,1)
Jazz Theory II: PR: MUT 3170. Continuation of Jazz Theory I; examining jazz harmony, melody, and rhythm.

MUT 3401 AS-MUSIC 3(3,0)
Counterpoint: PR: MUT 2117. Discuss, analyze, and write counterpoint exercises. 18th, 19th, and 20th scores will be examined.

MUT 3571 AS-MUSIC 3(3,0)
20th Century Musical Analysis: PR: MUT 2116 and MUT 2117 or equivalent. Overview of 20th century music, including musical compositions, techniques of musical analysis, and styles.

MUT 3641 AS-MUSIC 2(0,2)
Jazz Improvisation: PR: MUT 3171. Junior standing or C.I. Jazz improvisation with an emphasis on listening, harmony, arranging, and jazz forms. Melodic and harmonic...
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MUT 3642 AS-MUSIC 2(0,2)
Jazz Improvisation II: PR: MUT 3641. Junior standing or C.I. A continuation of Jazz Improvisation I.

MUT 4031 AS-MUSIC 1(1,0)
Review of Music Theory: PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit.

MUT 4344 AS-MUSIC 1(1,0)
Seminar in Music Arranging: Scoring for choral and instrumental ensembles.

MUT 5381 AS-MUSIC 3(3,0)
Arranging and Composing Music: PR: Satisfactory placement tests in theory, sight-singing, and ear training, and graduate status or senior standing or C.I. Arranging and composing music for instrumental and vocal ensembles. Some emphasis on compositional techniques of the 20th century.

MVB 1211 AS-MUSIC 1(0,1)

MVB 1212 AS-MUSIC 1(0,1)
Secondary French Horn: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French Horn. Intended for non-music majors. May be repeated for credit.

MVB 1213 AS-MUSIC 1(0,1)

MVB 1214 AS-MUSIC 1(0,1)

MVB 1215 AS-MUSIC 1(0,1)
Secondary Tuba: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit.

MVB 1411 AS-MUSIC 2(1,1)
Trumpet I: PR: Major in music or consent of chair, audition. May be repeated for credit.

MVB 1412 AS-MUSIC 2(1,1)
French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1413 AS-MUSIC 2(1,1)
Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1414 AS-MUSIC 2(1,1)
Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1415 AS-MUSIC 2(1,1)
Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 2421 AS-MUSIC 2(1,1)
Trumpet II: PR: MVB 1411 and competence determined by faculty jury. Continuation of MVB 1411. May be repeated for credit.

MVB 2422 AS-MUSIC 2(1,1)
French Horn II: PR: MVB 1412 and competence determined by faculty jury. Continuation of MVB 1412. May be repeated for credit.

MVB 2423 AS-MUSIC 2(1,1)
Trombone II: PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit.

MVB 2424 AS-MUSIC 2(1,1)
Baritone II: PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit.

MVB 2425 AS-MUSIC 2(1,1)
Tuba II: PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit.

MVB 3431 AS-MUSIC 2(1,1)
Trumpet III: PR: MVB 2421 and competence determined by faculty jury. Continuation of MVB 2421. May be repeated for credit.

MVB 3432 AS-MUSIC 2(1,1)
French Horn III: PR: MVB 2422 and competence determined by faculty jury. Continuation of MVB 2422. May be repeated for credit.

MVB 3433 AS-MUSIC 2(1,1)
Trombone III: PR: MVB 2423 and competence determined by faculty jury. Continuation of MVB 2423. May be repeated for credit.

MVB 3434 AS-MUSIC 2(1,1)
Baritone III: PR: MVB 2424 and competence determined by faculty jury. Continuation of MVB 2424. May be repeated for credit.

MVB 3435 AS-MUSIC 2(1,1)
Tuba III: PR: MVB 2425 and competence determined by faculty jury. Continuation of MVB 2425. May be repeated for credit.

MVB 4441 AS-MUSIC 2(1,1)
Trumpet IV: PR: MVB 3431 and competence determined by faculty jury. Continuation of MVB 3431. May be repeated for credit.

MVB 4442 AS-MUSIC 2(1,1)
French Horn IV: PR: MVB 3432 and competence determined by faculty jury. Continuation of MVB 3432. May be repeated for credit.

MVB 4443 AS-MUSIC 2(1,1)
Trombone IV: PR: MVB 3433 and competence determined by faculty jury. Continuation of MVB 3433. May be repeated for credit.

MVB 4444 AS-MUSIC 2(1,1)
Baritone IV: PR: MVB 3434 and competence determined by faculty jury. Continuation of MVB 3434. May be repeated for credit.

MVB 4445 AS-MUSIC 2(1,1)
Tuba IV: PR: MVB 3435 and competence determined by faculty jury. Continuation of MVB 3435. May be repeated for credit.

MVB 5460 AS-MUSIC 2(2,0)
Brass Pedagogy: PR: Music major and C.I. Methods and materials for teaching instruments in a small group or studio setting.

MVB 5451 AS-MUSIC 2(1,0)
Trumpet V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVB 5452 AS-MUSIC 2(1,0)
French Horn V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVB 5453 AS-MUSIC 2(1,0)
Trombone V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVB 5454 AS-MUSIC 2(1,0)
Baritone V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVB 5455 AS-MUSIC 2(1,0)
Tuba V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVK 1111 AS-MUSIC 1(0,2)
Class Piano I: Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano.

MVK 1211 AS-MUSIC 1(0,1)

MVK 1213 AS-MUSIC 1(1,1)

MVK 1411 AS-MUSIC 2(1,1)
Piano I: PR: Major in music or consent of chairperson; audition. May be repeated for credit.

MVK 1413 AS-MUSIC 2(1,1)
Organ I: PR: Major in music or consent of chairperson; audition. May be repeated for credit.

MVK 1800 AS-MUSIC 2(2,0)
Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training.

MVK 1801 AS-MUSIC 2(2,0)
Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I

MVK 2121 AS-MUSIC 1(0,2)
Class Piano II: PR: MVK 1111 or C.I. Continuation of MVK 1111. Not open to music majors whose major performing medium is piano.

MVK 2421 AS-MUSIC 2(1,1)
Piano II: PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit.

MVK 2423 AS-MUSIC 2(1,1)
Organ II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.

MVK 3131 AS-MUSIC 1(0,2)
Class Piano III: PR: MVK 1112 or C.I. Continuation of MVK 1112.

MVK 3431 AS-MUSIC 2(1,1)
Secondary Piano: PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit.

MVK 3433 AS-MUSIC 2(1,1)
Organ II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.

MVK 3434 AS-MUSIC 2(1,1)
Keyboard II: PR: MVK 1800 and C.I. Continuation of Keyboard II.

MUT 3641 AS-MUSIC 2(0,2)
Jazz Improvisation I: PR: MUT 3642. Junior standing or C.I. A continuation of Jazz Improvisation II.

MUT 4030 AS-MUSIC 1(1,0)
Review of Music Theory: PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit.

MUT 4343 AS-MUSIC 1(1,0)
Seminar in Music Arranging: Scoring for choral and instrumental ensembles.
MVK 4141  AS-MUSIC  1(0,2)
Class Piano IV: PR: MVK 1131 or C.I. Continuation of MVK 1131.

MVK 4441  AS-MUSIC  2(1,1)
Piano IV: PR: MVP 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit.

MVK 4443  AS-MUSIC  2(1,1)
Organ IV: PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit.

MVK 4640  AS-MUSIC  1(1,0)
Piano Pedagogy I: PR: C.I. Methods, materials for teaching individuals and classes of children and adults beginning to intermediate levels; demonstration and observation of procedures. May be repeated for credit.

MVK 4641  AS-MUSIC  1(1,0)
Piano Pedagogy II: PR: C.I. Continuation of MVK 4640. Emphasis on intermediate through advanced levels. May be repeated for credit.

MVK 4960  AS-MUSIC  0(1,0)

MVK 5451  AS-MUSIC  2(1,0)
Piano V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVK 5453  AS-MUSIC  2(1,0)
Organ V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVS 1211  AS-MUSIC  1(0,1)

MVS 1216  AS-MUSIC  1(0,1)

MVS 1411  AS-MUSIC  2(1,1)
Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 1412  AS-MUSIC  2(1,1)
Viola I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 1413  AS-MUSIC  2(1,1)
Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 1414  AS-MUSIC  2(1,1)
Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 1415  AS-MUSIC  2(1,1)
Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 1416  AS-MUSIC  2(1,1)
Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 2421  AS-MUSIC  2(1,1)
Violin II: PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit.

MVS 2422  AS-MUSIC  2(1,1)
Viola II: PR: MVK 1412 and competence determined by faculty jury. Continuation of MVK 1412. May be repeated for credit.

MVS 2423  AS-MUSIC  2(1,1)
Cello II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.

MVS 2424  AS-MUSIC  2(1,1)
Bass II: PR: MVK 1414 and competence determined by faculty jury. Continuation of MVK 1414. May be repeated for credit.

MVS 2425  AS-MUSIC  2(1,1)
Harp II: PR: MVK 1415 and competence determined by faculty jury. Continuation of MVK 1415. May be repeated for credit.

MVS 2426  AS-MUSIC  2(1,1)
Guitar II: PR: MVK 1416 and competence determined by faculty jury. Continuation of MVK 1416. May be repeated for credit.

MVS 3431  AS-MUSIC  2(1,1)
Violin III: PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit.

MVS 3432  AS-MUSIC  2(1,1)
Viola III: PR: MVK 2422 and competence determined by faculty jury. Continuation of MVK 2422. May be repeated for credit.

MVS 3433  AS-MUSIC  2(1,1)
Cello III: PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit.

MVS 3434  AS-MUSIC  2(1,1)
Bass III: PR: MVK 2424 and competence determined by faculty jury. Continuation of MVK 2424. May be repeated for credit.

MVS 3435  AS-MUSIC  2(1,1)
Harp III: PR: MVK 2425 and competence determined by faculty jury. Continuation of MVK 2425. May be repeated for credit.

MVS 3436  AS-MUSIC  2(1,1)
Guitar III: PR: MVK 2426 and competence determined by faculty jury. Continuation of MVK 2426. May be repeated for credit.

MVS 4441  AS-MUSIC  2(1,1)
Violin IV: PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit.

MVS 4442  AS-MUSIC  2(1,1)
Viola IV: PR: MVK 3432 and competence determined by faculty jury. Continuation of MVK 3432. May be repeated for credit.

MVS 4443  AS-MUSIC  2(1,1)
Cello IV: PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit.

MVS 4444  AS-MUSIC  2(1,1)
Bass IV: PR: MVK 3434 and competence determined by faculty jury. Continuation of MVK 3434. May be repeated for credit.

MVS 4445  AS-MUSIC  2(1,1)
Harp IV: PR: MVK 3435 and competence determined by faculty jury. Continuation of MVK 3435. May be repeated for credit.

MVS 4446  AS-MUSIC  2(1,1)
Guitar IV: PR: MVK 3436 and competence determined by faculty jury. Continuation of MVK 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.
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Intended for non-music majors. 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.

MVV 1111 AS-MUSIC 1(0,1)
Class Voice: Class instruction in beginning voice. May be repeated for credit.

MVV 1211 AS-MUSIC 1(0,1)

MVV 1411 AS-MUSIC 2(1,1)
Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 2322 AS-MUSIC 1(1,0)
Singing Broadway: PR: Concurrent enrollment in MVV 1411 or MVV 2421 or MVV 3431 or MVV 4441. Hearing and singing the American music called “Broadway.” Students learn singing techniques utilizing the principles of the Italian “Bel Canto” school. May be repeated for credit.

MVV 2421 AS-MUSIC 2(1,1)
Voice II: PR: MVV 1411 and competence determined by faculty jury. Continuation of MVV 2421. Major in music or consent of chair; audition. May be repeated for credit.

MVV 3431 AS-MUSIC 2(1,1)
Voice III: PR: MVV 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit.

MVV 4441 AS-MUSIC 2(1,1)
Voice IV: PR: MVV 3431 and competence determined by faculty jury. Continuation of MVV 3431. May be repeated for credit.

MVV 4640 AS-MUSIC 1(0,1)
Voice Pedagogy I: PR: C.I. Materials, methods for vocalists; teachers; conductors; voice production; diagnosis of problems and correction; demonstration and observation of teaching; beginning to intermediate levels. May be repeated for credit.

MVV 4641 AS-MUSIC 1(0,1)
Voice Pedagogy II: PR: C.I. Continuation of MVV 4640. Intermediate to advanced levels. May be repeated for credit.

MVW 1211 AS-MUSIC 2(1,0)
Voice V: PR: Graduate status or senior standing and C.I.
May be repeated for credit.

MVW 1222 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. May be repeated for credit.

MVW 1233 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 1411 AS-MUSIC 2(1,1)
Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVW 1412 AS-MUSIC 2(1,1)
Oboe 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 1415 AS-MUSIC 2(1,1)
Saxophone 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 1414 and competence determined by faculty jury. Continuation of MVW 2421. 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 2422. 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 2423. 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 2424. May be repeated for credit.

MVW 2425 AS-MUSIC 2(1,1)
Saxophone II: PR: MVW 1415 and competence determined by faculty jury. Continuation of MVW 2425. 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.

MVW 4442 AS-MUSIC 2(1,1)
Oboe IV: PR: MVW 3432 and competence determined by faculty jury. Continuation of MVW 3432. May be repeated for credit.

MVW 4443 AS-MUSIC 2(1,1)
Clarinet IV: PR: MVW 3433 and competence determined by faculty jury. Continuation of MVW 3433. May be repeated for credit.

MVW 4444 AS-MUSIC 2(1,1)
Bassoon IV: PR: MVW 3434 and competence determined by faculty jury. Continuation of MVW 3434. May be repeated for credit.

MVW 4445 AS-MUSIC 2(1,1)
Saxophone IV: PR: MVW 3435 and competence determined by faculty jury. Continuation of MVW 3435. May be repeated for credit.

MVW 5451 AS-MUSIC 2(1,0)
Flute V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVW 5452 AS-MUSIC 2(1,0)
Oboe V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVW 5453 AS-MUSIC 2(1,0)
Clarinet V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVW 5454 AS-MUSIC 2(1,0)
Bassoon V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

MVW 5455 AS-MUSIC 2(1,0)
Saxophone V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

NGR 5003 HPA-NURS 3(3,0)

NGR 5004L HPA-NURS 3(3,0)
Advanced Health Assessment, Health Promotion, & Diagnostic Reasoning Clinical: PR: Baccalaureate in Nursing Basic Health Assessment course. Application of skills for advanced health assessment, health promotion,
and diagnostic reasoning for individuals over the lifespan and populations. Graded S/U.

NGR 5090  HPA-NURS  3(3,0)
Urgent Care for the Advanced Practice Nurse: PR: NGR 6524C or CI. Advanced practice evaluation and management of clients in urgent care settings.

NGR 5141  HPA-NURS  3(3,0)
Pathophysiological Bases for Advanced Nursing Practice: PR: Baccalaureate Degree in Nursing. Critical examination of the physiological and pathophysiological mechanisms affecting individuals.

NGR 5195C  HPA-NURS  2(2,1)
International Perspectives of Global Health: PR: Graduate standing or CI. An analysis of global health in comparison with that of USA and other nation’s health care systems.

NGR 5252  HPA-NURS  3(3,0)
Psycho-Social Factors and Health Care Outcomes in the Elderly: PR: Post-baccalaureate or graduate status or CI. Interdisciplinary perspective to examine the relationship 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 CI. 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 advance practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness.

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 6266 or Teaching Strategies for Health Professionals, or CI. In depth study of the development, implementation, and evaluation of clinical education programs for health profession students. May be repeated for credit.

NGR 5715  HPA-NURS  3(3,0)
Instructional Technology Resources for Health Professional Education: PR: EDG 6266, Teaching Strategies for Health Professionals, or CI. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources.

NGR 5720  HPA-NURS  3(3,0)
Organizational Dynamics: PR: Baccalaureate Degree in Nursing. Analysis of theories and models of health care organizational systems. Emphasis on nursing administration roles.

NGR 5744  HPA-NURS  1(1,0)
Health Care Systems, Policy and Health Professionals: PR: Admission to the MSN program or CI. Examine social responses to health and illness, health care systems and policies and the role of advanced practice nurses.

NGR 5745  HPA-NURS  1(1,0)

NGR 5746  HPA-NURS  1(1,0)
Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Baccalaureate degree in Nursing. Examine legal, ethical and political issues related to advanced practice nursing.

NGR 5791  HPA-NURS  3(3,0)
Teaching Strategies for Health Professionals: PR: Bachelors in nursing or consent of instructor. Analysis of internal and external controls on curriculum development for health professionals, application of selected teaching learning theories to classroom and clinical practice.

NGR 5800  HPA-NURS  4(4,0)
Nursing Theory/Research I: PR: Baccalaureate degree in Nursing or NUR 4686, undergraduate statistics course or CI. Explores and analyzes the conceptual and theoretical bases of nursing, examines and critiques research designs and methods commonly used in nursing research.

NGR 5801  HPA-NURS  4(4,0)
Nursing Research II/Statistics: PR: BSN, NGR 5800; Undergraduate Statistics or CI. Measurement strategies in nursing research, data planning and collection techniques, statistical data analysis and interpretation of results, research proposal development, outcomes research and statistical software.

NGR 5871  HPA-NURS  3(3,0)
Health Care Informatics: PR: Baccalaureate in health related field or CI. Use of information systems, clinical data management, communication strategies, and decision-making models.

NGR 5880  HPA-NURS  3(3,0)
Professional Ethics: PR: CI. Clinical cases and other professional ethical issues related to codes of conduct and research; application of ethical principles. May be repeated for credit.

NGR 5930  HPA-NURS  3(3,0)
Issues in Health Care for the Homeless: PR: Pre-senior level baccalaureate status or the admission program; CI. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless.

NGR 5931  HPA-NURS  3(3,0)
Interdisciplinary Care at End-of-Life: PR: Graduate Status or CI. Examination of interdisciplinary roles and strategies for enabling patients, families, and caregivers to approach end-of-life free from avoidable distress and suffering.

NUR 1015  HPA-NURS  3(3,0)
Nursing as a Profession: Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care.

NUR 3026L  HPA-NURS  1(0,2)
Therapeutic Interventions for Health Professionals: PR: Admission to Nursing Program. Theoretical rationale and psychomotor development for therapeutic interventions in nursing practice. Graded S/U.

NUR 3065L  HPA-NURS  2(2,0)
Health Assessment: PR: or CR: NUR 3065L, and admission to the School of Nursing or CI. Concepts of health assessment of clients.

NUR 3065L  HPA-NURS  1(0,1)
Health Assessment Lab: CR: NUR 3065 and admission to the School of Nursing or CI. Clinical application of concepts and techniques of health assessment of clients.

NUR 3165  HPA-NURS  3(3,0)
Critical Inquiry: PR: STA 2014C or 2023; NUR 3809 and RN status or NUR 3065. A study of approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research.

NUR 3167  HPA-NURS  2(2,0)
Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the SON, NUR 3235; NUR 3235L; NUR 339E. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues.

NUR 3198  HPA-NURS  5(5,0)
Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiologic basis of illness, and principles of pharmacology.

NUR 3235  HPA-NURS  5(5,0)
Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. level first semester courses or CI. 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 CI. Clinical application of biopsychosocial nursing interventions in physical and mental health problems with emphasis on family-centered care in the community. Graded S/U.

NUR 3616  HPA-NURS  3(3,0)
Promoting Healthy Families Across the Lifespan: PR: Admission to the School of Nursing. Theoretical foundations related to primary care nursing practice with healthy families across the lifespan, including common health concerns related to childhood, childbearing, adulthood, and aging.

NUR 3616L  HPA-NURS  3(3,0)
Clinical Practice in Promoting Healthy Families: PR: Admission to the School of Nursing. Primary care clinical nursing practice in community settings with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood, and aging. Graded S/U.

NUR 3617  HPA-NURS  9(3,0)
Promoting Healthy Communities: PR: Admission to the School of Nursing. Exploration of community-oriented nursing practice, including epidemiological, community health, nursing, economic, and health care system perspectives. May be repeated for credit.

NUR 3637  HPA-NURS  5(5,0)
Accelerated Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN Option; NUR 3065, NUR 3065L, NUR 3825, NUR 3637L. Application of concepts of family and community nursing as it relates to 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 Accelerated Second Degree BSN option, Coreqs: NUR 3637, NUR 3065L, NUR 3065, NUR 3825. Primary care nursing practice with healthy communities and families.
across the lifespan, including common health promotion activities related to childbearing, childrearing, childhood, adulthood, and aging. Graded S/U.

NUR 3795  HPA-NURS 3(3,0)

NUR 3806  HPA-NURS 1(1,0)
Professional Socialization Seminar: PR: NUR 3005 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 3809  HPA-NURS 3(3,0)
Transitional Concepts in Nursing I: PR: Florida RN status. Exploration of issues and theories related to professional nursing practice to facilitate transition of RN to baccalaureate level of nursing practice.

NUR 3825  HPA-NURS 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)
Bioethical and Legal Issues in Health Care -Honors: PR: Permission of Honors. Includes questions concerning human values, legal and ethical questions arising in health care delivery policy issues and professional practice among licensed health care professionals

NUR 3936  HPA-NURS 2(2,2)
International Perspectives of Nursing and Health Care: PR: Enrollment in School of Nursing or C.I. Comparative analysis of professional nursing practice and health care system in the United States and selected countries. May be repeated for credit

NUR 4047  HPA-NURS 3(3,0)
Health Care of Special Populations: Homeless: PR: Completion of junior level nursing courses or equivalent or C.I. Emphasis on socioeconomic, political, nursing, medical, and mental health practice and research related to care of the homeless.

NUR 4084  HPA-NURS 3(3,0)
Transitional Concepts in Nursing II: PR: NUR 3806, NUR 3065, NUR 3167. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3809.

NUR 4196  HPA-NURS 3(3,0)

NUR 4286  HPA-NURS 3(3,0)
Gerontologic Nursing: PR: NUR 4286 or RN status or C.I. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings.

NUR 4525  HPA-NURS 2(2,0)
Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness.

NUR 4525L  HPA-NURS 1(0,1)
Clinical Practice with Mentally Ill Clients: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute healthcare settings serving clients with a primary diagnosis of mental illness. Graded S/U.

NUR 4635C  HPA-NURS 6(3,3)
Scientific Theories of Nursing V: PR: NUR 4084 and admission to the Nursing Program. Theories and principles of public health nursing. Clinical applications in selected settings.

NUR 4636  HPA-NURS 3(3,0)
Community as the Continuum of Care: PR: Completion of all Jr. level Fall 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 and Sr. level Fall courses or C.I. Clinical application of theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Graded S/U.

NUR 4695  HPA-NURS 2(2,0)
Accelerated Community as a Continuum of Care: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4829, NUR 4563L. Focus on knowledge needed in a community oriented practice model to effect change in health status and risk, and self care capacity of target population.

NUR 4745  HPA-NURS 4(4,0)
Nursing Care of Clients with Acute and Life-threatening Illness across Lifespans: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing care of individual families experiencing acute, unstable, or life-threatening health problems.

NUR 4745L  HPA-NURS 4(0,4)
Clinical Practice in Caring for Clients with Acute Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute health care settings with clients experiencing acute, unstable, surgical, or life threatening health conditions. Graded S/U.

NUR 4812C  HPA-NURS 4(1,3)
Practicum and Role Development for RNs: PR: For students enrolled in the RN-BSN program only. PR: or CR: NUR 4636, NUR 4636L, NUR 4827, NUR 4837. Synthesis of theories and concepts incorporated throughout the curriculum applied to a selected area of nursing practice and directed toward professional role development. Graded S/U.

NUR 4827  HPA-NURS 3(3,0)
Leadership and Management Principles: PR: NUR 3809 or NUR 4636, RN Status or C.I. Scientific theories and principles of leadership and management needed to function in leadership, management, and teaching roles in professional nursing. Application of decision making process.

NUR 4828  HPA-NURS 2(0,2)

NUR 4829  HPA-NURS 3(3,0)
Accelerated Transitioning into Professional Practice as a Leader: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4695, NUR 4636L. Application of leadership and management principles to the beginning role of the professional nurse.

NUR 4835  HPA-NURS 2(2,0)
Role Transition: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Professional development and role transition of the baccalaureate graduate entering professional nursing practice.

NUR 4836  HPA-NURS 3(1,2)
Professional Development Seminar in Nursing: PR: Acceptance to RN-MSN program track; Current Florida RN license; CR: NUR 3809. Exploration of the role of the professional nurse.

NUR 4837  HPA-NURS 3(3,0)
Health Care Issues, Policy and Economics: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Study of selected health care policy issues relevant to the financing, organization, and delivery of nursing services to populations in the community

NUR 4838L  HPA-NURS 2(0,2)

NUR 4880  HPA-NURS 3(3,0)
Introduction to Critical Care Nursing: PR: RN status or C.I. Theories and principles of comprehensive nursing care of individuals and families in critical care settings.

NUR 4903H  HPA-NURS 3(3,0)
Directed Reading/Research-Honors: PR: 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 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
Independent Study: Directed Study.

NUR 4930  HPA-NURS 3(3,0)
Health Issues in Minority and Special Populations: PR: Nursing Majors/Junior Level, or C.I. Identify and critically analyze structural and socio-cultural factors that influence the health of minorities and special populations

NUR 4934  HPA-NURS 3(3,0)
Holistic Nursing: Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes.

NUR 4935  HPA-NURS 3(3,0)
Women's Health Issues: PR: ENC 1102, Junior standing, or C.I. Factors and conditions impacting the health of women. May be repeated for credit.

NUR 4941  HPA-NURS 3(0,9)
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)

NUR 4970H  HPA-NURS 3(3,0)
Thesis or Project Works-Honors: PR: Permission of Honors. This course provides students with faculty mentorship through the process of writing and defending the Honors Thesis or Project.

OCE 3008  AS-BIOL 3(3,0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSE 5050</td>
<td>UCF-OPT</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>OSE 5051L</td>
<td>ECS-ECE</td>
<td>3(1,4)</td>
<td>Optical Wave Propagation: PR: Graduate standing or C.I. Optical propagation of light waves as applied to isotropic, anisotropic, and homogeneous media, guided waves and Gaussian beams.</td>
</tr>
<tr>
<td>OSE 5111</td>
<td>UCF-OPT</td>
<td>3(3,0)</td>
<td>Optical Interference and Diffraction: PR: Graduate status or senior standing, or C.I. Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.</td>
</tr>
<tr>
<td>OSE 5143</td>
<td>ECS-ECE</td>
<td>3(3,0)</td>
<td>Interference and Diffraction: PR: Graduate status or senior standing, or C.I. Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.</td>
</tr>
<tr>
<td>OSE 5144</td>
<td>ECS-ECE</td>
<td>3(3,0)</td>
<td>Fundamentals of Geometrical Optics, Geometrical Theory of Image Formation, Optical System Layout, and Radome.</td>
</tr>
<tr>
<td>OSE 5234L</td>
<td>UCF-OPT</td>
<td>3(1,3)</td>
<td>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.</td>
</tr>
<tr>
<td>OSE 5312</td>
<td>UCF-OPT</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>OSE 5414</td>
<td>ECS-ECE</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>OSE 5421</td>
<td>UCF-OPT</td>
<td>3(3,0)</td>
<td>Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optics waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components.</td>
</tr>
<tr>
<td>OSE 5511</td>
<td>AS-PHYS</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>OSE 5524</td>
<td>ECS-ECE</td>
<td>3(2,1)</td>
<td>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.</td>
</tr>
<tr>
<td>PAD 3000</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Urban and Regional Planning: PR: PAD 3003 or C.I. Planning topics such as land-use, and comprehensive and urban planning as they relate to the physical aspects of the natural and human environment.</td>
</tr>
<tr>
<td>PAD 3003</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Public Administration in American Society: PR: POS 2041. An examination of the basic environment, culture, and organization of public administration in the United States.</td>
</tr>
<tr>
<td>PAD 3040</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Ethics and Values in Public Administration: PR: Junior standing or C.I. Ethical dimensions of public administration. Develops the awareness, skills, and value framework to act ethically.</td>
</tr>
<tr>
<td>PAD 4034</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>The Administration of Public Policy: PR: ECO 2023. Problems of values, interests, and objectives and their impact on the administration of public programs, stressing the interplay between social values, policies and administration.</td>
</tr>
<tr>
<td>PAD 4104</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Administrative Theory: A review of the behavioral aspects of the administrative process, its impact on organizational goal achievement and on supervisors and managers. Some social and structural pathologies affecting administrative practice.</td>
</tr>
<tr>
<td>PAD 4110</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Intergovernmental Administration: Various approaches to studying and explaining the American Intergovernmental system. Emphasis on interorganizational activities, i.e., negotiation, cooperation, and coordination within the legal setting.</td>
</tr>
<tr>
<td>PAD 4131</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Public Sector Project Management: Various approaches to managing projects, including using scheduling techniques such as GANTT, CPM, and PERT, as well as team building, facilitating, and leadership skills.</td>
</tr>
<tr>
<td>PAD 4144</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Non-Profit Organizations: PR: PAD 3003 or C.I. The operations of non-profit organizations, including working with board of directors, volunteer services, fund-raising and grantmanship, financial management and marketing.</td>
</tr>
<tr>
<td>PAD 4147</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Resource Development in the Nonprofit Sector: PR: Junior status or C.I. Examination of the development and management of human resources and financial resource development in nonprofit organizations is discussed.</td>
</tr>
<tr>
<td>PAD 4148</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Volunteer Management: PR: Junior status or C.I. Examination of recruitment, selection, training and management of volunteers in nonprofit organizations and the application of management theory.</td>
</tr>
<tr>
<td>PAD 4153</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Planning and Improvement for Pub Org: Prepare future leaders for the changing paradigms of the public sector by providing education in a variety of quality related areas.</td>
</tr>
<tr>
<td>PAD 4204</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Fiscal Management: PR: C.I. Analysis of methods of securing public funds, the process of budget making, and techniques of management used in managing public funds.</td>
</tr>
<tr>
<td>PAD 4223</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Public Budgeting: Skills and Techniques: PR: PAD 4204 or C.I. Analytical skills and administrative techniques employed by public budget analysts, focusing on the process of generating and using information.</td>
</tr>
<tr>
<td>PAD 4253</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Community &amp; Economic Development: PR: PAD 3003 or C.I. This course will examine local and regional economic development strategies, with an emphasis on effective policy setting and planning.</td>
</tr>
<tr>
<td>PAD 4325</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>PAD 4331</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Land Use and Planning: PR: PAD 3000 or C.I. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl.</td>
</tr>
<tr>
<td>PAD 4334</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Urban Design: PR: PAD 3000 or C.I. Theories and concepts of the physical, cultural, social, and financial factors associated with urban design.</td>
</tr>
<tr>
<td>PAD 4351</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Issues in Environmental Program Management: The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects.</td>
</tr>
<tr>
<td>PAD 4390</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Hazard Mitigation: PR: PAD 3003 or Junior Standing and C.I. Specialized knowledge and skills necessary to develop a proactive hazard mitigation plan to reduce the effects of natural and technological disasters.</td>
</tr>
<tr>
<td>PAD 4392</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Managing Public Emergencies: PR: PAD 3003 or C.I. After a public emergency, a variety of services must be provided to the victims. This course reviews and analyzes coordination and management of these services.</td>
</tr>
<tr>
<td>PAD 4393</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Emergency Management &amp; Disaster Planning: PR: PAD 3003 or C.I. Emergency Management and Disaster Planning on events most likely to affect Florida including reviewing the four phases of Planning, mitigation, response, and preparedness.</td>
</tr>
<tr>
<td>PAD 4395</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Disaster Response and Recovery: PR: PAD 3003 or Junior Standing and C.I. Individual, group, organizations and community behavior and recovery from disasters. Service delivery strategies are highlighted and complex dynamics of the recovery process are emphasized.</td>
</tr>
<tr>
<td>PAD 4414</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Public Personnel Administration: The history, operating components, structural characteristics, and increasing impact of laws and related sanctions on personnel practices of public agencies.</td>
</tr>
<tr>
<td>PAD 4446</td>
<td>HPA-PUB</td>
<td>3(3,0)</td>
<td>Multiculturalism in Public Administration: PR: PAD 3003 or C.I. This course is designed to help public managers examine public and personal attitudes and values, ethical dilemmas, and social consequences related to issues of diversity.</td>
</tr>
</tbody>
</table>
UCF Courses and Descriptions

ing the effectiveness and efficiency of public organizations via reengineering.

PAD 4616 HPA-PUB 3(3,0)
Privatization: PR: PAD 3003 or C.I. Analysis of the process of privatizing existing governmental services, including: privatization decision, creation of RFP or ITB, contract award and contract management.

PAD 4712 HPA-PUB 3(3,0)
Information Systems for Public Managers and Planners: PR: PAD 3000 or C.I. Knowledge and skills concerning information technologies important for planners and public managers, including use of GIS to manipulate and analyze spatial data.

PAD 4720 HPA-PUB 3(3,0)
Survey Research in Public Administration: Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector.

PAD 4803 HPA-PUB 3(3,0)
Issues in Urban Administration: To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context.

PAD 4941 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/fiscal aspects of ethical behavior are explored.

PAD 5142 HPA-PUB 3(3,0)
Nonprofit Organizations: PR: Admission to certificate program or C.I. Overview of nonprofit management, including history, governance structures, criteria used to establish nonprofit status, range of organizations, and application of management theory.

PAD 5145 HPA-PUB 3(3,0)
Volunteerism in Nonprofit Management: PR: Admission to certificate program or C.I. Human resource development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues.

PAD 5146 HPA-PUB 3(3,0)

PAD 5336 HPA-PUB 3(3,0)
Introduction to Urban Planning: Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning.

PAD 5337 HPA-PUB 3(3,0)
Urban Design: Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design.

PAD 5338 HPA-PUB 3(3,0)
Land Use and Planning Law: Review of national and local aspects of the legal underpinnings of urban planning aspects such as zoning, growth management, and environmental regulation.

PAD 5356 HPA-PUB 3(3,0)
Managing Community and Economic Development: PR: graduate standing or C.I. Overview of economic development activities focusing on policy and managerial issues at the local level.

PAD 5425 HPA-PUB 3(3,0)
Dispute Resolution in the Public Sector: An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods.

PAD 5427 HPA-PUB 3(3,0)
Labor Relations in the Public Sector: Current trends and developments in employment relations in the public sector, especially employee organization, negotiations, and the collective bargaining process.

PAD 5806 HPA-PUB 3(3,0)
Local Government Operations: Operational Functions of municipal and county governments and the role of the chief executive officer.

PAD 5807 HPA-PUB 3(3,0)
Administrative Practice in the Public Sector: The application of various theoretical concepts to the “real world” of public administration. Policy formulation and execution are examined through the case study mode.

PAD 5850 HPA-PUB 3(3,0)
Grant and Contract Management: PR: PAD 3003 or C.I. Study of government or public nonprofit agency grant and contract administration and management responding to funding assistance solicitations and grant and contract preparation, evaluation, and presentation.

PAC 2102 HPA-PA 2(2,0)
Public Affairs Careers: Introduction and examination of public affairs programs of study and career opportunities that will prepare students for future careers.

PAD 3930 HPA-PUB 1(1,0)
American Humanities Human Service Workshop: PR: American Humanities minor, junior standing and ENC 1102; or C.I. Designed as forum for exchange between students and professional nonprofit personnel on various leadership and management issues. American Humanities student association activities are included. May be repeated for credit.

PAD 4948 HPA-PUB 3(0,3)
American Humanities Internship: PR: Enrollment in American Humanities Certification Program, completion of 2 AH restricted course electives and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanities certification program. Requires minimum of 300 hours placement in nonprofit human service organization.

PCB 2420 HPA-M&M 3(3,0)
Principles of Biotechnology: Principles, applications, laws, ethics and impact on society of biotechnology in agriculture, medicine, forestry, environment, computers/industrial/chemical engineering and business management.

PCB 3023 AS-BIOL 3(3,0)

PCB 3024 AS-BIOL 2(0,8)
Molecular Cell Biology Laboratory: PR: or CR: PCB 3023. Critical thinking, technical skills, and integration of biochemical, molecular, and microscopic experimental approaches to understanding cell structure and function.
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 HPA-M&M 3(3,0)
Molecular Biology II: PR: PCB 3523. The processes regulating gene function in procytates and eucaryotes; specialized genetic aspects underlying multi-cellular existence, DNA evolution.

PCB 4524H HPA-M&M 3(3,0)
Molecular Biology II-Honors: PR: Permission of Honors and PCB 3523. Same as PCB 4525 with honors level content.

PCB 4529 HPA-M&M 3(3,0)
Experimental Molecular Biology: PR: PCB 3525 and PCB 4624 or C.I. Facilitation of experimental data that leads to the development and understanding of the underlying principles of molecular biology.

PCB 4683 AS-BIOL 4(4,0)
Population Biology and Evolution: PR: PCB 3034 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to specialization, adaptation, and macroevolutionary processes in plants and animals.

PCB 4683L AS-BIOL 1(0,2)
Population Biology and Evolution Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology.

PCB 4723 AS-BIOL 4(4,0)
Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology.

PCB 4805 HPA-M&M 3(3,0)
Endocrinology: PR: PCB 3703C or equivalent; C.IH 3211. Mechanisms of action of hormones; interrelationship between the nervous and endocrine systems.

PCB 5045C AS-BIOL 4(3,2)
Conservation Biology: PR: PCB 3034 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required.

PCB 5107C AS-BIOL 4(3,2)
Advanced Cell Biology: PR: PCB 3063 and PCB 3023, graduate status or senior standing, or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signaling, and cell cycle.

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, including cytoskeletal dynamics, cell signaling, cell cycle regulation, protein targeting and organelle structure and function.

PCB 5238 AS-BIOL 3(3,0)
Immunopathology: PR: PCB 3233. In-depth overview of diseases due to deficiencies or over-reactivity of the immune system.

PCB 5239 HPA-M&M 3(3,0)
Tumor Biology: PR: PCB 4524. A course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology.

PCB 5256C AS-BIOL 4(3,2)
Advanced Developmental Biology: PR: PCB 3063 and 200 4603C or equivalent, graduate status or senior standing.

PCB 5275 HPA-M&M 3(3,0)
Signal Transduction Mechanisms: PR: PCB 3523 and PCB 4525. A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur.

PCB 5326C AS-BIOL 5(3,2)
Ecosystems of Florida: PR: PCB 3034, PCB 3034L or equivalent, and graduate status or senior standing or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation.

PCB 5328C AS-BIOL 4(3,2)
Landscape Ecology: PR: PCB 3034, STA 2023, graduate status or senior standing, or C.I. Influence of spatial heterogeneity on ecological processes. Emphasizes quantitative methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics.

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 central and southern Florida, combining field manipulation and readings from primary literature.

PCB 5485 AS-BIOL 3(3,0)
Models in Ecology: PR: PCB 3034, MAC 2211 (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature.

PCB 5520 AS-BIOL 3(3,0)
Behavioral Ecology: PR: graduate status or senior standing, and C.I. Introduction to the field of Behavioral Ecology, which studies evolution of animal behavior in the wild.

PCB 5556C AS-BIOL 4(3,2)
Conservation Genetics: PR: PCB 3063 and PCB 4683, graduate status or senior standing, or C.I. Applications of genetic models to the understanding and conservation of animal and plant populations.

PCB 5665C AS-BIOL 4(3,2)
Human Genetics: PR: PCB 3063, graduate status or senior standing, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species.

PCB 5677 AS-BIOL 3(3,0)
Molecular Evolution: PR: PCB 3063 and PCB 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-PSYCH 4(3,2)
Interviewing and Counseling: PR: PSY 2012, PPE 3003, CLP 3143 and C.I. A review of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and counseling procedures.

PEL 2011 ED-TLP 2(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. A study of performance and application of intermediate 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 2010 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, 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(1,2)
Self Defense for Women and Men: Designed to provide students with self defense skills.

PEM 2443 ED-TLP 2(1,2)
Tae Kwon Do: An analysis and application of the martial arts, as part of an overall physical and mental training system.
U.C.F. Courses and Descriptions

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 technique in the basic skills of water safety and swimming.

PEO 2011 ED-TLP 3 (2,1)
Team Sports: PR: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate team sports as part of the Physical Education program.

PEO 2031 ED-TLP 3 (2,1)
Individual Sports and Leisure Activities: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate individual sports and leisure activities in physical education program.

PEO 2624 ED-TLP 3 (2,1)
Coaching Basketball: Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies.

PEO 3041 ED-TLP 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 5645 ED-TLP 3 (3,0)

PEP 3205 ED-TLP 3 (2,1)
Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics.

PET 2622C ED-TLP 3 (2,1)
Human Injuries: PR: Biomechanics or C.I. The prevention, identification, care, and rehabilitation of human injuries.

PET 3094 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 3408 ED-TLP 3 (3,0)
Public Relations in Sports and Fitness: PR: Admission to program or C.I. Functions and responsibilities of a public relations professional or department and the interaction with the public and media representatives with specific application to sports and fitness professionals.

PET 3462 ED-TLP 3 (3,0)
Fiscal and Facilities: Issues in Sports and Fitness: PR: Admission to program or C.I. Design, maintenance, and operation of sports and fitness facilities with a specific focus on fiscal management.

PET 3493 ED-TLP 3 (3,0)
Sports and Ethics: PR: Junior standing or C.I. An exploration into ethics and its influence on sports.

PET 3620C HPA-HP 3 (2,2)

PET 3623C HPA-HP 3 (2,2)

PET 3670C HPA-HP 4 (0,8)
Practicum in Athletic Training I: PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer.

PET 3671C HPA-HP 4 (0,8)
Practicum in Athletic Training II: PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer.

PET 3740C ED-TLP 2 (1,1)
Teaching Physical Education in the Secondary and Middle School (8-12): PR: Admission to Junior Block, or C.I. Curriculum 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 II: PR: Senior standing, EDG 4323. Satisfactory completion of the portfolio. Internship assignment under a certified physical education teacher. Half in elementary, half in secondary.

PET 4002 ED-TLP 3 (1,2)
Outdoor and Leisure Activities: Study of contemporary outdoor and leisure activities. Course will include but not 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 4093C ED-TLP 4 (3,1)
Practical Fitness Training: PR: PET 4312, PET 4351, PET 2622C, PET 4560, PET 3171. An in-depth study into fitness-related concepts as they are applied to individuals and groups.

PET 4215 ED-TLP 3 (3,0)
Motivational Aspects of Athletic Performance: PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athletic performance.

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.

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)
Art and Science of Athletic Training II: PR: PET 3623C. Specific diagnostic and sport specific injuries in athletics.

PET 4625 C ED-TLP 3 (3,0)

PET 4630C HPA-HP 4 (2,4)
Therapeutic Exercise in Athletic Training: PR: PET 3623C. Rehabilitation processes regarding exercise prescription for athletic injury.

PET 4632C HPA-HP 4 (2,4)
Therapeutic Modalities in Athletic Training: PR: PET 3623C.
4624C. Principles and techniques for applying therapeutic modalities.

PET 4640 ED-TLP 3(3,0)
Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed.

PET 4660C HPA-HP 3(3,0)
Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession.

PET 4672C HPA-HP 4(0,8)
Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

PET 4673C HPA-HP 4(0,8)
Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

PET 4674 HPA-HP 1(1,0)

PET 4710 ED-E PE 3(0,0)
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 practicum. 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 Certificate Program. Will provide educators an in-depth understanding of energy pathways, and neuromuscular, cardiovascular, and respiratory systems during exercise. Emphasis on understanding principles of exercise adaptations and applying those principles to 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 sports 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 sports with 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 2203C or C.I. Introduction to photography with an art emphasis.

PGY 3410C AS-ART 3(3,2)

PGY 3610C AS-COMM 3(1,4)
Photography I: PR: Journalism majors only. Black and white shooting and processing, dark room and computer-based newspaper assignments. 35 MM SLR camera with manual mode required.

PGY 3640C AS-COMM 3(1,2)

PGY 3680 AS-COMM 3(3,0)

PGY 4420C AS-ART 3(2,3)
Advanced Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2410C, and a satisfactory portfolio review or C.I.; Or, admission to the Photography program. Advanced photography skills and portfolio development. Designed for art majors. May be repeated for credit.

PGY 4440C AS-ART 3(2,3)
Special Problems in Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2410C, and a satisfactory portfolio review or C.I.; Or, admission to the Photography program. Designed for upper division art majors with photography concentration. A series of directed photographic problems of a research nature.

PHH 3041 AS-PHIL 3(3,0)
Russian Philosophy: PR: ENC 1102. A study of major themes and developments in Russian philosophy from the 18th century to the present, including critiques of culture, religion, society, and politics.

PHH 3100 AS-PHIL 3(3,0)
Ancient Philosophy: PR: PHI 2010 or C.I. Foundations of Western philosophy in ancient Greek thinking about human beings and nature, including the pre-Socratics, Socrates, Plato, Aristotle.

PHH 3200 AS-PHIL 3(3,0)
Medieval Philosophy: PR: PHI 2010 or C.I. The influence of Greek philosophical thought in medieval Muslim, Jewish and Christian philosophy, as expressed in its main problems and representative thinkers.

PHH 3460 AS-PHIL 3(3,0)
Modern Western Philosophy: PR: PHI 2010. Major western philosophers and philosophical movements from Descartes to Nietzsche.

PHH 3510 AS-PHIL 3(3,0)
Marx and Nietzsche: PR: Junior standing. The philosophies of Marx and Nietzsche, important differences in outlook and emphasis, the significance of their respective critiques of society, the implications of their contrasting standpoints for understanding human life, the philosophical and ideological influences of their work, and their contemporary relevance.

PHH 3600 AS-PHIL 3(3,0)
Contemporary Philosophy: PR: PHI 2010 or C.I. Recent and current trends in philosophy, including philosophical analysis, phenomenology, structuralism, post-structuralism, and liberation philosophies.

PHH 3700 AS-PHIL 3(3,0)
American Philosophy: PR: PHI 2010 or AMH 2010 or 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 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 system building, discovery procedures, diagonalization, and contract and paradigm case arguments.

PHI 2100 AS-PHIL 3(3,0)
Formal Logic I: A study of sentence and predicate logics,
with introduction to modal, epistemic, deontic, multi-valued, and indeterminant logics.

**PHI 2101** AS-PHIL 3(3,0)  
Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action.

**PHI 2630** AS-PHIL 3(3,0)  
Ethics: An examination of the nature of moral problems, judgements and principles, with an emphasis on recent formulations in ethical theory.

**PHI 2647** AS-PHIL 3(3,0)  
Logic and Ethics: PR: PHI 2100 or COT 3100 or MHF 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics.

**PHI 3022** AS-PHIL 3(3,0)  
Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2010, PHI 3123, or C.I. Examines the contributions of poststructuralist and neopsychoanalytical theories to cultural issues in sexuality and gender.

**PHI 3033** AS-PHIL 3(3,0)  
Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A multicultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment.

**PHI 3083** AS-PHIL 3(3,0)  
Research Methods in Philosophy: PR: PHI 2010 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. Current 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 3323** AS-PHIL 3(3,0)  

**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 IDS 2680 or C.I. Ethics of virtual worlds as contrasted to the physical world, the use of simulation, virtual environments, and modeling in philosophy, especially in ethics.

**PHI 3626** AS-PHIL 3(3,0)  
Advanced Ethics in Science and Technology: PR: COP 3502C or IDS 2680 or PHI 2647. Critical thinking applied to ethics in science and technology.

**PHI 3629** AS-PHIL 3(3,0)  
Family Values: PR: PHI 2010, PHI 2630, PHI 3670, or WST 2015. 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)  

**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 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting.

**PHI 3670** AS-PHIL 3(3,0)  
Ethical Theory: PR: Junior standing and C.I. Major classical and contemporary topics in ethics, including value theory, utilitarian, deontological, virtue-based and feminist approaches to ethics, rights, and justice; some examination of metaethical issues.

**PHI 3683** AS-PHIL 3(3,0)  
Philosophy of Friendship: PR: One of: PHI 2010, PHI 3670, PHI 3638, or C.I. Philosophical aspects of friendship, focusing on its interpersonal, moral, social, and political significance and implications.

**PHI 3700** AS-PHIL 3(3,0)  
Philosophy of Religion: PR: REL 2300 or PHI 2010. An examination of basic ideas, beliefs, attitudes, and functions of religion, with emphasis upon questions of conceptual meaning and cognitive justification.

**PHI 3720** AS-PHIL 3(3,0)  
Faith and Reason: PR: REL 2300 or PHI 2010 or C.I. Emergence of two discrete ways of knowing: Faith and Reason.

**PHI 3750** AS-PHIL 3(3,0)  
The Problem of Evil: PR: PHI 2010 or C.I. The traditional problem of evil encompassing philosophical, theological, logical, and natural interpretations and assessments of moral and natural evil.

**PHI 3800** AS-PHIL 3(3,0)  

**PHI 3803** AS-PHIL 3(3,0)  
Philosophy and Creativity: A companion course to PHI 3800. Aesthetics. Examines the empirical and metaphysical claims made for creativity; attempts to account for intuition, genius, and intelligence.

**PHI 3941** AS-PHIL 3(1,3)  
Philosophy Practicum: PR: C.I. Mentor at-risk grade schoolers three hours weekly and participate in a two-hour class every other week, evaluating such work-related concepts as justice and fairness. Pass/Fail grading.

**PHI 4300** AS-PHIL 3(3,0)  
Theories of Knowledge: PR: Philosophy major or C.I. Classical and contemporary theories of knowledge. A critical examination of various forms of, and reasons for, skepticism, criteria for truth and justification for belief.

**PHI 4321** AS-PHIL 3(3,0)  
Philosophies of Embodiment: Mind/Body/Self: PR: Junior standing and either PHI 2010, PHI 2011, PHI 2101, or C.I. Different ways of understanding relations between mind, body, and soul as articulated by western and non-western philosophies from ancient to contemporary times.

**PHI 4341** AS-PHIL 3(3,0)  
Ways of Knowing: PR: PHI 2010 or C.I. Philosophical study of approaches to knowledge, with emphasis on contributions of the knower to how things are known.

**PHI 4400** AS-PHIL 3(3,0)  
Philosophy of Science: An examination of the conceptual foundations and methodology of modern science.

**PHI 4420** AS-PHIL 3(3,0)  
Philosophy of Social Science: An examination of the objectives, methods and guiding norms of the social sciences and their role in the development of human knowledge.

**PHI 4500** AS-PHIL 3(3,0)  
Metaphysics: PR: Philosophy major or C.I. Topics include appearance and reality, actions and events, necessity and possibility, identity, nature of persons, mind-body dualism, causality, and free will and determinism.

**PHI 4633** AS-PHIL 3(3,0)  
Ethics and Biological Science: PR: Completion of the GEP. An application of contemporary thinking to ethical issues arising from the biological sciences, including human and animal experimentation, genetic engineering, 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 4951** AS-PHIL 1(1,0)  
Portfolio: PR: PHI 3803 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 SU.

**PHI 5627** AS-PHIL 3(3,0)  
Theoretical and Applied Ethics: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, or Graduate standing or C.I. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content.

**PHI 5665** AS-PHIL 3(3,0)  
Knowledge, Responsibility, and Society: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4693 or Graduate standing. A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content.

**PHM 3100** AS-PHIL 3(3,0)  
Freedom and Justice: Philosophical analysis and evaluation of selected issues arising from the interaction of the individual, society, and the state, includes topics such as freedom, equality, and justice.

**PHM 3123** AS-PHIL 3(3,0)  
Feminist Theories: PR: ENC 3102. Contemporary issues
and perspectives in feminist theory and their relation to
divergent feminist practices.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Prefix</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHT 3112</td>
<td>HPA-HP</td>
<td>Clinical Kinesiology Lab</td>
<td>3(3,0)</td>
<td>CR: PHT 3122. Lab course investigating the mechanical aspects of human movement.</td>
</tr>
<tr>
<td>PHT 3155</td>
<td>HPA-HP</td>
<td>Physiology of Therapeutic Exercise</td>
<td>2(2,0)</td>
<td>PR: PHT 3259. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems.</td>
</tr>
<tr>
<td>PHT 3155L</td>
<td>HPA-HP</td>
<td>Physiology of Therapeutic Exercise Lab</td>
<td>2(0,4)</td>
<td>CR: PHT 3155. Lab course emphasizing the clinical application of exercise physiology.</td>
</tr>
<tr>
<td>PHT 3259</td>
<td>HPA-HP</td>
<td>Patient Care Skills</td>
<td>2(2,0)</td>
<td>CR: PHT 3259. Lab course covering basic skills of patient care; transfers, mobility skills, draping, gait training.</td>
</tr>
<tr>
<td>PHT 3259L</td>
<td>HPA-HP</td>
<td>Patient Care Skills Lab</td>
<td>1(0,2)</td>
<td>CR: PHT 3259. Lab course covering basic skills of patient care; transfers, mobility skills, draping, gait training.</td>
</tr>
<tr>
<td>PHT 3602</td>
<td>HPA-HP</td>
<td>Introduction to Clinical Research</td>
<td>2(2,0)</td>
<td>PR: STA 2023. Methods of research applied to clinical environment of physical therapy. Coverage of the language, logic, design and analysis of clinical research.</td>
</tr>
<tr>
<td>PHT 4119C</td>
<td>HPA-HP</td>
<td>Clinical Gross Anatomy</td>
<td>4(3,2)</td>
<td>CR: PHT 3259. Human anatomy systems using cadavers and emphasizing clinical applications and pathologies.</td>
</tr>
<tr>
<td>PHT 4222L</td>
<td>HPA-HP</td>
<td>Therapeutic Exercise Lab</td>
<td>1(0,2)</td>
<td>CR: PHT 4222L. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.</td>
</tr>
<tr>
<td>PHT 4230</td>
<td>HPA-HP</td>
<td>Clinical Kinesiology I</td>
<td>2(2,0)</td>
<td>CR: PHT 4222, PHT 4222L. CR: PHT 4230L. Exploration of the various therapeutic exercise modalities, and their application to the rehabilitation course treatment.</td>
</tr>
<tr>
<td>PHT 4230L</td>
<td>HPA-HP</td>
<td>Clinical Kinesiology I Lab</td>
<td>1(0,2)</td>
<td>CR: PHT 4230L. Lab course emphasizing use of various therapeutic exercise modalities.</td>
</tr>
<tr>
<td>PHT 4307</td>
<td>HPA-HP</td>
<td>Pathology/Pharmacology</td>
<td>3(3,0)</td>
<td>CR: PHT 3113. Organized seminars on the pathophysics and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice.</td>
</tr>
<tr>
<td>PHT 4308</td>
<td>HPA-HP</td>
<td>Medical Science and Pharmacology</td>
<td>2(2,0)</td>
<td>CR: PHT 3113. CR: PHT 4308. Laboratory and clinical applications of human movement, joint mechanics of the upper and lower extremity, vertebral column and soft tissues.</td>
</tr>
</tbody>
</table>

UCF Courses and Descriptions
patient. Incorporate a systems approach, utilizing screening, and patient problem solving.

PHT 5240 L HPA-HP 2(0,4) Physical Assessment Lab: CR: Physical Assessment Lab. Course emphasizing the examinations required to perform an evaluation of physical therapy patient.

PHT 5241 HPA-HP 2(2,0) Therapeutic Exercises I: CR: Therapeutic Exercises I Lab. Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction.

PHT 5241 L HPA-HP 2(0,4) Therapeutic Exercise Lab I: CR: Therapeutic Exercise I Lab. Course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

PHT 5260 HPA-HP 2(2,0) Patient Care Skills: CR: Patient Care Skills Lab. Affective, cognitive, and psychomotor skills, regarding patient care. Basic skills of patient care, transfers, mobility skills, draping, gait training.

PHT 5260 L HPA-HP 1(0,2) Patient Care Skills Lab: CR: Patient Care Skills Lab. Basic skills of patient care, transfers, mobility skills.

PHT 5306 HPA-HP 2(2,0) Pathology/Pharmacology: CR: Admission to PT program. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they related to medical management in physical therapy practice.

PHT 5411 HPA-HP 3(3,0) Foundations of Physical Therapy I: CR: This course emphasized the psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching.


PHT 5718 L HPA-HP 1(0,2) Neurological Physical Therapy Lab: CR: Neurological Physical Therapy Lab Course emphasizing the clinical application of selected neurorotor theories.

PHT 5722 C HPA-HP 2(2,1) Physical Therapy Integration I: CR: Admission to PT program. Problem solving approach to selected dysfunctions, including burns and open wounds, and selected diagnostic procedures and therapy interventions.

PHT 5805 HPA-HP 1(0,4) Clinical Education I: CR: Admission to PT program. Full-time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed.


PHY 2048 AS-PHYS 3(3,0) Physics for Engineers & Scientists I: CR: MAC 2311 or equivalent. Mechanics, Thermodynamics, fluids.

PHY 2048 H AS-PHYS 3(3,0) Honors Physics for Engineers and Scientists I: CR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048 with honors-level content.

PHY 2048 L AS-PHYS 1(0,3) Physics Laboratory for Engineers and Scientists I: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2048.

PHY 2048 LH AS-PHYS 1(0,3) Honors Physics Laboratory for Engineers and Scientists I: CR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048L with honors-level content.

PHY 2049 AS-PHYS 3(3,0) Physics for Engineers and Scientists II: CR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics.

PHY 2049 H AS-PHYS 3(3,0) Honors Physics for Engineers and Scientists II: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2049.

PHY 2053 C AS-PHYS 4(3,3) College Physics I: CR: MAC 1105 and MAC 1114 or equivalent or C.I. Mechanics, waves, thermodynamics.


PHY 2093 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 3110 H AS-PHYS 3(3,0) Honors Physics for Engineers and Scientists III: CR: Permission of Honors and PHY 2049 or PHY 2049H. Same as PHY 3110 with honors-level content.

PHY 3221 AS-PHYS 3(3,0) Mechanics I: CR: PHY 2048 or PHY 2048H, MAP 2302. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton’s equations.


PHY 3503 AS-PHYS 3(3,0) Thermal and Statistical Physics: CR: PHY 3101 or PHY 3110H. Thermodynamics, kinetic theory, elements of statistical mechanics.


PHY 3802 L AS-PHYS 3(1,5) Intermediate Physics Laboratory: CR: 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: CR: PHY 3323. Dielectrics, magnetic materials, electromagnetic waves, reflection, complex impedance, static solutions to Laplace’s Equation, radiation from an accelerated charge and antennas, special relativity.

PHY 4424 AS-PHYS 3(3,0) Optical Physics Laboratory: CR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography.

PHY 4424 L AS-PHYS 3(3,0) Optical Physics Laboratory: CR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography.


PHY 5015 C AS-PHYS 3(2,2) Physics for Teachers II: CR: 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: CR: 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 5140 C AS-PHYS 3(3,2) Ion-Solid Interactions: CR: PHY 4804 or PHY 4324, graduate status or senior standing, or C.I. Physical principles and related scientific and technological applications of ion-solid interactions.

PHY 5200 C AS-PHYS 1(0,5,1,5) Newtonian Mechanics for Teachers: CR: Graduate status or senior standing or C.I. Lab lecture, demonstration course studying selected topics in classical mechanics.

PHY 5300 C AS-PHYS 1(0,5,1,5) Electricity for Teachers: CR: 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 5346 AS-PHYS 3(3,0) Electrodynamic 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 5500C 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 3503, STA 3023, 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 Schrödinger equation, matrix formulation, and time independent perturbation theory.

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. Physical concepts and techniques used in the spectroscopic study of dynamic structure and function of biological macromolecules such as proteins; Connections with other complex systems. May be repeated for credit.

PHZ 3113 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(3,0) 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: PHY 3151 or C.I. Computational methods applied to the solution of problems in many branches of physics. May be repeated for credit.

PHZ 5304 AS-PHYS 3(3,0) Nuclear and Particle Physics: PR: PHY 4604 or equivalent, and, graduate status or senior standing or C.I. Particles and nuclei, symmetries and conservation laws, interactions, models.

PHZ 5405 AS-PHYS 3(3,0) Condensed Matter Physics: PR: PHY 4604, PHY 3101, and graduate status or senior standing or C.I. Crystal lattice cell structure, phonons, free electron model, band theory of solids, Fermi surface, solid state applications, and polymers.

PHZ 5425C AS-PHYS 3(3,3) Electron Solid Interactions: PR: Undergraduate senior or graduate status or C.I. The physics and applications of electron interactions with solids. Classroom and hands-on laboratory consent.

PHZ 5432 AS-PHYS 3(3,0) Introduction to Soft Condensed Matter Physics: PR: PHY 5600 or C.I. Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics. Graded S/U.

PHZ 5505 AS-PHYS 3(3,0) Plasma Physics: PR: PHY 4324, and graduate status or senior standing or C.I. Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion.

PHZ 5600 AS-PHYS 1(1,0) Special Relativity for Teachers: PR: Graduate status or senior standing or C.I. Length contraction, time dilation, simultaneity, conservation of mass-energy, conservation of momentum, Compton scattering.

PLA 3013 HPA-CJ/LS 3(3,0) Law and the Legal System: A survey course designed to familiarize the student with the American legal system, ethical considerations, terminology, legal reasoning, and the role of the legal assistant.

PLA 3104 HPA-CJ/LS 3(3,0) Legal Research: PR: PLA 3013 or C.I. A study of the various research tools used in legal investigation and the methods used to conduct legal research.

PLA 3155 HPA-CJ/LS 3(3,0) Legal Writing: PR: PLA 3104. A study of legal writing format and technique and the preparation of memoranda and other legal documents, using research skills learned in PLA 3104.

PLA 3201 HPA-CJ/LS 3(3,0) Civil Practice and Procedure: PR: PLA 3013 or C.I. The student becomes familiar with the Florida civil procedure before trial and acquires the ability to prepare basic pleadings.

PLA 3201H HPA-CJ/LS 3(3,0) Civil practice and Procedure - Honors: PR: Permission of PLA 3013 or C.I. Same as PLA 3201 with honors level content.

PLA 3273 HPA-CJ/LS 3(3,0) The Law of Torts: PR: PLA 3013 or C.I. Theories governing liability for civil injuries not arising from contractual obligations; systems and procedures used in preparation, trial and appeal of Torts cases.

PLA 3304 HPA-CJ/LS 3(3,0) Criminal Law: Basic concepts of substantive criminal law. The course includes examination of elements of major crimes, criminal responsibility, legal defenses, and parties to crime.

PLA 3308 HPA-CJ/LS 3(3,0) Criminal Procedure: PR: PLA 3013 or CCJ 3024 or C.I. Rules of criminal procedure, with emphasis on Florida rules, including right to counsel, bail, search and seizure, arrest, identification, trial, and post-trial proceedings.

PLA 3610 HPA-CJ/LS 3(3,0) Property and Real Estate Law: PR: PLA 3013. Study of the law of real and personal property; real estate transactions and conveyances; closing procedures and title problems.

PLA 4020 HPA-CJ/LS 3(3,0) Law and Society: Examination of the relationship between law and American society including the impact on the legal system and legal profession of major social movements.

PLA 4223 HPA-CJ/LS 3(3,0) Advanced Trial Advocacy: PR: PLA 4910 or C.I. Litigation and trials at an advanced level; students must handle trial from beginning to end. May be repeated for credit.

PLA 4240 HPA-CJ/LS 3(3,0) Negotiation Alternatives in Law: PR: PLA 3013C I. Theories and skills involved in negotiation, mediation and other dispute resolutions processes.

PLA 4263 HPA-CJ/LS 3(3,0) Evidence: PR: PLA 3013 and 3201 or C.I. An examination of statutes and cases that define rules of evidence for trial courts. Primary emphasis is on the Florida Evidence Code.

PLA 4423 HPA-CJ/LS 3(3,0) The Law of Contracts: Study of the basic law of contracts as developed in Anglo-American law and as changed by modern statutes, including the Uniform Commercial Code. Florida contract law will be emphasized.

PLA 4433 HPA-CJ/LS 3(3,0) Florida Partnerships and Corporations: Statutory requirements of Florida partnerships and corporations; creation and dissolution of business organizations, responsibilities of officers and basic rights of stockholders.

PLA 4460 HPA-CJ/LS 3(3,0) Bankruptcy Law: PR: C.I. This course will acquaint the student with the substantive law and procedures associated with the rights and obligations of debtors and creditors.

PLA 4472 HPA-PUB 3(3,0) Employment Discrimination Law: PR: C.I. Course will address employment discrimination based on race, gender, religion, national origin, age, disability and sexual orientation. Issues such as workplace harassment will be analyzed.

PLA 4483 HPA-CJ/LS 3(3,0) Administrative Law: PR: PLA 3013 or PAD 3003. The law regarding governmental agencies with emphasis on the administrative process, Administrative Procedures Acts and special problems of state administrative law.

PLA 4530 HPA-CJ/LS 3(3,0) Legal Issues of the Elderly: PR: PLA 3013. Legal concerns faced by older Americans as they plan their later years and seek to maximize their personal autonomy.
### UCF Courses and Descriptions

**PLA 4583**  
HHA/CJ/LS  3(3,0)  
**Cyber Law I:** PR: PLA 3013. Analysis of copyright, trademark, and patent issues in cyberspace.

**PLA 4601**  
HHA/CJ/LS  3(3,0)  
**Estates and Trusts:** PR: PLA 3013, PLA 3610. A study of wills and trusts, and applicable legal principles of administration of estates through the processes of the Probate Court.

**PLA 4602**  
HHA/CJ/LS  3(3,0)  
**Estate Administration:** PR: PLA 4601. Study of the laws and procedures applicable to administration of estates.

**PLA 4631**  
HHA/CJ/LS  3(3,0)  
**Land Use and Environmental Law:** PR: PLA 3013, PLA 3610. Study of the law relating to private and public restraints on land use, including planning, zoning, subdivision and building regulations, with emphasis on recent interpretations by judiciary for environmental protection.

**PLA 4700**  
HHA/CJ/LS  3(3,0)  
**Professional Ethics and Liability:** PR: PLA 3013. Ethical responsibilities of professionals. Canons of legal ethics, liability for professional malpractice.

**PLA 4710**  
HHA/CJ/LS  1(1)  
**Careers in Legal Studies:** PR: Major in Legal Studies or C.I. Applications of Legal Studies. Students will explore the control and regulation of the entertainment industry.

**PLA 4732**  
HHA/CJ/LS  3(3,0)  
**Advanced Legal Applications Computer Software:** PR: PLA 3013 or C.I. Course will acquaint students with contemporary computer software applications used to satisfy the demands of today's law firms and law-related fields.

**PLA 4763**  
HHA/CJ/LS  3(3,0)  
**Law Office Practices:** PR: PLA 3013. Organization, operation and management of law office. Interviewing techniques and practical application of work that is done in a law office.

**PLA 4800**  
HHA/CJ/LS  3(3,0)  
**Domestic Relations Law:** PR: PLA 3013, PLA 3610. Role of the legal assistant in all phases of family and juvenile law. Fundamental procedures and principles applied by the courts to family problems.

**PLA 4813**  
HHA/CJ/LS  3(3,0)  
**Juvenile Law and Procedure:** PR: PLA 3013 or C.I. Examines both the substantive and procedural law for juvenile delinquency and dependency. Emphasis on Florida law and comparison with other jurisdictions.

**PLA 4823**  
HHA/CJ/LS  3(3,0)  
**Sports Law:** PR: PLA 3013 or C.I. Introduction to the legal issues and regulation of sports, focusing on torts, contracts, agency and constitutional law in relation to sports.

**PLA 4824**  
HHA/CJ/LS  3(3,0)  
**Legal Issues for Athletic Trainers:** PR: C.I. Analysis of the legal issues affecting athletic trainers.

**PLA 4825**  
HHA/CJ/LS  3(3,0)  
**Entertainment Law:** PR: PLA 3013 or C.I. Introduction to the control and regulation of the entertainment industry and the associated legal issues.

**PLA 4826**  
HHA/CJ/LS  3(3,0)  
**Advanced Entertainment Law:** PR: PLA 4825. Legal complexities and regulations pertaining to the entertainment industry at an advanced level.

**PLA 4830**  
HHA/CJ/LS  3(3,0)  
**World Legal Systems:** PR: PLA 3013 or equivalent. An examination of various legal traditions and systems of the world. Substantive and procedural laws will be examined.

**PLA 4910**  
HHA/CJ/LS  3(4,0)  
**Trial Advocacy:** PR: PLA 3013 or C.I. Analysis of the entire litigation process from the initial client interview through the appellate stage, and development of oral advocacy skills.

**PLA 4935**  
HHA/CJ/LS  3(3,0)  
**Capstone: Legal Issues:** PR: senior status. Legal Studies major. The legal and socio-legal analysis of selected issues that require students to synthesize their legal studies education.

**PLA 5937**  
HHA/CJ/LS  3(1,2)  
**Seminar in Contemporary Legal Problems:** PR: C.I. Analysis of current trends in legislation and court decisions and their significance to American society.

**POR 1120**  
AS-LANG  4(4,1)  
**Elementary Portuguese Language and Civilization I:** Introduces the student to Portuguese culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in this language.

**POR 1121**  
AS-LANG  4(4,1)  
**Elementary Portuguese Language and Civilization II:** PR: POR 1120 or C.I. Continuation of POR 1120. The course emphasizes the four major language skills: reading, writing, listening, and speaking.

**POR 3140**  
AS-LANG  3(3,0)  
**Accelerated Portuguese for Speakers of Romance Languages:** PR: FRE 2201, or ITA 2201, or SPN 2231, or course equivalent. Accelerated Portuguese for proficient speakers of Romance Languages. It is expected that students have no prior knowledge of Portuguese.

**POS 2041**  
AS-POLS  3(3,0)  
**American National Government:** A study of the dynamics of American national government, including its structure, organization, powers, and procedures.

**POS 2041H**  
AS-POLS  3(3,0)  
**Honors American National Government:** PR: Permission of Honors. Same as POS 2041 with honors-level content.

**POS 3122**  
AS-POLS  3(3,0)  
**State Government and Public Policy:** PR: POS 2041 or C.I. A comparative study of American state governments, political processes, and public policies, with emphasis on Florida.

**POS 3122H**  
AS-POLS  3(3,0)  
**Honors State Government and Public Policy:** PR: POS 2041 or C.I. and permission of Honors. A comparative study of American state governments, political processes, and public policies, with emphasis on Florida. With Honors content.

**POS 3173**  
AS-POLS  3(3,0)  
**Southern Politics:** PR: POS 2041 or C.I. Study of southern politics past and present. Emphasis on factors effecting changes in the region and the states. Southern and national relationship examined.

**POS 3182**  
AS-POLS  3(3,0)  
**Florida Politics:** PR: POS 2041 or C.I. Examines the foundations of Florida government and political behavior, political institutions, and public policy.

**POS 3233**  
AS-POLS  3(3,0)  
**Public Opinion:** PR: Junior standing or C.I. Nature, impact and development of public opinion, emphasizing the influence of race, gender, age, and class on opinions, voting, and political behavior.

**POS 3235**  
AS-POLS  3(3,0)  
**Mass Media and Politics:** PR: POS 2041 or C.I. Influence of media on campaigns, public officials, public opinion, the definition of political news, and selected public policies.

**POS 3235H**  
AS-POLS  3(3,0)  
**Honors Mass Media and Politics:** PR: POS 2041 or C.I. Consent of Honors. Influence of media on campaigns, public officials, public opinion, the definition of political news, and selected public policies. With Honors content.

**POS 3253**  
AS-POLS  3(3,0)  
**Contemporary Revolution and Political Violence:** PR: POS 2041 or C.I. Theories and cases of revolutionary change and political violence in the contemporary world.

**POS 3258**  
AS-POLS  3(3,0)  
**Politics in Film:** PR: POS 2041 or C.I. The influence of motion pictures popular understanding of American and international politics.

**POS 3273**  
AS-POLS  3(3,0)  
**Voting and Election:** PR: POS 2041 or C.I. Theoretical and substantive inquiry into U.S. electoral system; includes focus on voter behavior as well as national and state electoral systems.

**POS 3413**  
AS-POLS  3(3,0)  
**The American Presidency:** PR: POS 2041 or C.I. Examination of the presidential selection process and the office's evolution in status, powers, administrative responsibilities, leadership, and decision-making.

**POS 3424**  
AS-POLS  3(3,0)  
**Congress and the Legislative Process:** PR: POS 2041 or C.I. Examination of the Congress as an institution undergoing dynamic change; emphasis upon recruitment of legislators, institutional and informal rules, the committee system, legislative procedures.

**POS 3443**  
AS-POLS  3(3,0)  
**Political Parties and Processes:** PR: POS 2041 or C.I. In-depth study of the American political party system in the context of changing American politics; topics include development, organization, reforms, legislative and executive roles.

**POS 3463**  
AS-POLS  3(3,0)  
**Interest Groups:** PR: POS 2041 or C.I. Analyzes the non-electoral behavior of economics, ideological, and citizen groups; political action committees; and the proliferation of interest organizations over the past quarter century.

**POS 3627**  
AS-POLS  3(3,0)  
**Cultural Pluralism and Law:** PR: POS 2041. A case law approach to the legal and constitutional aspects of historical and current issues facing minorities in the U.S.

**POS 3703**  
AS-POLS  3(3,0)  
**Scope and Methods of Political Science:** PR: Junior standing or C.I. The scope and methodology of political analysis. Extensive examination of the discipline, research design and methodology.

**POS 3949**  
AS-POLS  0(0,8)  
**Cooperative Education in Political Science:** PR: Departmental permission required before registering. Cooperative education experience in political science. May be repeated. Graded S/U.

**POS 4142**  
AS-POLS  3(3,0)  
**Metropolitan Politics:** PR: POS 2041 or C.I. Analysis of political patterns, processes, and issues in American communities. Intergovernmental relations and structural and political arrangements in the existing and emerging metropolitan areas.
Pos 4204 as-polS 3(3,0) political behavior: pr: pos 2041 or c.i. mass political behavior, concentrating on voting and participation, primarily in the united states.

Pos 4206 as-polS 3(3,0) political psychology: The psychological analysis of political behavior, with emphasis on the individual rather than the political system; includes political attitudes and communication, leadership, and personality influences on politics.

Pos 4246 as-polS 3(3,0) political socialization: pr: pos 2041 or c.i. analysis of recruitment and socialization processes; identification of the agents and processes of political socialization in national and cross-cultural contexts.

Pos 4284 as-polS 3(3,0) judicial process and politics: Study of the formal and informal judicial process. Legal culture, bureaucratic model, judicial recruitment and outputs, comparative judicial behavior.

Pos 4412 as-polS 3(3,0) presidential campaigning: pr: c.i. introduces the process of candidate selection, convention behavior, actual campaign process and the transition of power.

Pos 4603 as-polS 3(3,0) american constitutional law: pr: pos 2041 or c.i. development of American federalism and national power, commerce clause, and nationalization of the economy.

Pos 4604 as-polS 3(3,0) american constitutional law ii: pr: pos 2041 or c.i. Development of civil liberties and civil rights in the American federal system.

Pos 4622 as-polS 3(3,0) politics and civil rights: pr: junior standing or c.i. Examination of civil rights issues in the context of political behavior, political institutions and public policy since 1865.

Pos 4742 as-polS 3(3,0) geographic information systems for the political scientist: pr: pos 2041. Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems for political science research.

Pos 4941L as-polS 3-9(3,9) political science internship: pr: c.i. Internship working with the national, state, county or municipal government. Assignments with selected civic organizations, elected or appointed officials. May be repeated for credit.

Pot 3204 as-polS 3(3,0) american political thought: From its sources to the 20th century, including liberalism, puritanism, the federalist, the rise of industrialism, resulting social movements, modern variations.

Pot 3302 as-polS 3(3,0) modern political ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism.

Pot 4003 as-polS 3(3,0) political theory: pr: pos 2041 or c.i. Examination of various normative approaches to the study of political science, stressing contemporary developments in the field.

Pot 4025 as-polS 3(3,0) ancient, medieval and early modern political philosophy: Study of the development of political and social ideas in western thought from early Greece through the 17th century.

Pot 4054 as-polS 3(3,0) modern political philosophy: Study of the development of political and social ideas from the 18th century to the present. May be taken independently of pot 4045 (ancient, medieval and early modern political philosophy).

Pot 4066 as-polS 3(3,0) contemporary political theory: pr: junior standing or c.i. study of the contemporary debate about the status of rights, utilitarianism, and liberalism, and community of Marxists, liberals, and feminist critiques of liberalism.

Pot 4109 as-polS 3(3,0) politics and literature: pr: junior standing. An examination of politics and the political process through the medium of literature.

Pot 4305 as-polS 3(3,0) the state, society, and the individual: pr: junior standing or c.i. The relationship between the state, society, and the individual by discussing the works of major authors from Adam Smith to Robert Axelrod.

Pot 4314 as-polS 3(3,0) contemporary democratic theory: pr: pos 2041 or c.i. study of democratic theories, emphasizing liberal democracy and its critics, elitist theories, participatory democracy, citizen participation, and relevance of empirical research to democratic theory.

Pot 4331 as-polS 3(3,0) utopia/disutopia: pr: junior standing or c.i. examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and disutopias.

Pot 4414 as-polS 3(3,0) marxist political theory: Survey of Marx & Engels and other thinkers, exposing the theoretical underpinnings of nations and groups who have adapted marxist principles for governance.

Pot 4632 as-polS 3(3,0) religion and politics: pr: junior standing, institutional and individual relationship of religion and politics including globalization, fundamentalism, secularization, American exceptionalism, political behavior, and the religious origins of current secular concepts.

Ppe 3003 as-psych 3(3,0) personality theory: pr: psy 2012. A survey of theory and research on the development of personality characteristics.

Ppe 5055 as-psych 3(3,0) personality theories: pr: graduate status or senior standing or c.i. Critical theoretical models of personality development with applications to counseling, psychotherapy and psychological assessment.

Psb 3002 as-psych 3(3,0) physiological psychology: pr: psy 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

Psb 3441 as-psych 3(3,0) psychobiological aspects of drugs: pr: psy 2012. An advanced course designed for web instruction. Focuses on pharmacology, neurophysiology and neuroanatomy as the foundation of understanding behavior and social consequences of drug use.

Psb 3842 as-psych 3(3,0) sleep and dreams: pr: psy 2012. An overview of the psychological and physiological foundations of sleep and dreams. Concrete facts and disturbances of sleep. Cultural perspectives on, and contemporary applications of dreams.
PSY 3214H AS-PSYCH 4(3,2)
Honors Research Methods in Psychology: PR: Permission of Honors and PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Honors content.

PSY 3220C AS-PSYCH 3(2,2)

PSY 3302 AS-PSYCH 3(3,0)

PSY 3620 AS-PSYCH 3(3,0)
Legal Aspects of Psychology: PR: PSY 2012 or SYG 2000; PPE 3003 or C.I. Ethical and legal dilemmas and issues in the practice of psychology.

PSY 3624 AS-PSYCH 3(3,0)
Parapsychology: PR: PSY 2012. An examination of the history and development of research on paranormal phenomena, with special emphasis on recent developments in extrasensory perception and psychokinesis.

PSY 3951 AS-PSYCH 1-9(3-30)
Undergraduate Field Work: PR: Senior standing and C.I. Placement in a community agency for supervised experience in applications of psychology to community problems. May be repeated for credit. Graded S/U.

PSY 4025 AS-PSYCH 3(3,0)
The Psychology of Art: PR: PSY 2012, and ARH 2050 or ARH 2051. Discussion of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity.

PSY 4213L AS-PSYCH 3(0,3)
Advanced Research Methods Statistical Lab: PR: PSY 3214C and CR: PSY 4215C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports.

PSY 4215C AS-PSYCH 4(3,2)
Advanced Research Methods in Psychology: PR: PSY 3214C. Design, analysis, and interpretation of complex research projects in psychology.

PSY 4305C AS-PSYCH 3(1,4)
Advanced Psychological Measurement: PR: or CR: PSY 3302. Application of the theory underlying psychological test and measurement procedures, including reliability, validity, and item analysis.

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 selected aspects of American psychology from its origins in the late 19th century to the present time. This course is intended for the Ph.D. in Clinical Psychology; in certain instances graduate students in other programs may enroll.

PUP 3203 AS-POLS 3(3,0)
Environmental Politics: PR: POS 2041 or C.I. An examination of politics and policy-making concerning issues of conservation, pollution and development of land, air, and water resources.

PUP 3314 AS-POLS 3(3,0)
Minorities in American Politics: Historical and contemporary role of minority groups in the American political process, including an examination of their electoral significance and relevant legislative, executive, and judicial policies.

PUP 3508 AS-POLS 3(3,0)
Space Studies: PR: Junior standing or C.I. Multidisciplinary overview of space studies, providing familiarity with some technical aspects as well as the relationship between technical and public policy considerations.

PUP 4003 AS-POLS 3(3,0)
American Public Policy: PR: POS 2041 or C.I. Policy formation, implementation and evaluation, with a focus on 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 the 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: Majors only. Grammar Proficiency Examination, and typing test. Development of skills in writing for public relations.

PUR 4000 AS-COMM 3(3,0)
Public Relations: PR: Spicer 1600C. Principles and practice of Public Relations including techniques, research tools publicly, and management.

PUR 4110C AS-COMM 3(1,3)
Public Relations Publications: PR: ENC 2210 or PUR 3100 or JOU 2100C. Basic principles and techniques of desktop production of public relations publications.

PUR 4800 AS-COMM 3(3,0)
Public Relations Campaigns: PR: Majors only, PUR 4000 or C.I. Planning and execution of public relations campaigns for profit and non-profit organizations.

PUR 4801 AS-COMM 3(3,0)
Public Relations Case Studies: PR: PUR 4000 or C.I. Discussion and analysis of public relations cases highlighting the application of PR theory to advance organizational goals.

RAT 3001 HPA-HP 3(3,0)

RAT 3241 HPA-HP 3(3,0)
Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy.

RAT 3242 HPA-HP 2(2,0)
Oncologic Pathology: PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characteristics, histologic grading, staging and treatment.

RAT 3614 HPA-HP 2(2,0)
Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection.

RAT 4247 HPA-HP 3(3,0)
Radiation Oncology I: Methods of radiation therapy treatment of malignant conditions of the skin, oral cavity, pharynx, sinuses, thyroid, digestive and respiratory systems.

RAT 4248 HPA-HP 3(3,0)
Radiation Oncology II: Methods of treatment of malignant conditions of the nervous system, eye, reproductive system, urinary system, connective tissue, and lympho-vascular system.

RAT 4619C HPA-HP 4(3,3)
Radiation Therapy Physics III: PR: RAT 4618. Study of treatment planning principles and techniques, including multiple beam therapy, rotation therapy, arc therapy, and irregular field techniques.

RAT 4804L HPA-HP 5(0,20)
Clinical Education I: PR: RTE 3000, 3111, 3528, 3584, 3804, 3457, 3549, or C.I. Supervised clinical practice in patient care and orientation to radiation therapy simulation, and treatment planning and delivery procedures.

RAT 4814L HPA-HP 6(0,24)
Clinical Education II: PR: RAT 4804. Supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units.

RAT 4824L HPA-HP 6(0,24)

RED 3012 ED-TLP 3(3,0)
Basic Foundations of Reading: PR: Junior standing or
UCF Courses and Descriptions

C.I. Principles, procedures, and current practices for teaching reading. Specific techniques and materials for word identification, content reading and comprehension.

RED 3310 ED-TLP 3(3,0) Emerging Literacy: PR: Admission to program, or C.I. Investigates emergence of reading/writing processes during preschool, kindergarten, and early first grade years.

RED 4043 ED-TLP 3(3,0) Content Reading in Kindergarten through Grade 12: PR: Admission to the teacher education program and junior or senior class standing. Content literacy in the K-12 school curriculum: principles, strategies, assessment, and promising practices.

RED 4311 ED-TLP 3(3,0) Development of Literacy: PR: RED 3310. Methods for development of reading and writing process during primary (first - third) grades.

RED 4519 ED-TLP 3(3,1) Diagnostic and Corrective Reading Strategies: PR: RED 3012 or C.I. and admission to Phase II. An investigation of the needs of individual learners in reading instruction, organization and techniques for promoting optimum reading growth. Concurrent school experiences required.

RED 5147 ED-TLP 3(3,0) Developmental Reading: PR: EDG 4323. Principles, procedures, organization, and current practices in the elementary reading program. Materials and methods of instruction.

RED 5514 ED-TLP 3(3,1) Classroom Diagnosis and Development of Reading Proficiencies: PR: RED 5147 or equivalent. Classroom diagnosis and corrective teaching in reading; instructional materials. Case study required.

REE 3043 BA-FIN 3(3,0) Fundamentals of Real Estate: PR: Junior standing. Application of basic tools of economics, finance, and marketing to solve private and public sector real estate problems.

REE 3433 BA-FIN 3(3,0) Real Estate Law: PR: Junior standing. An analysis of real estate law with emphasis on Florida statutes and case law.

REE 4103 BA-FIN 3(3,0) Real Estate Appraisal and Valuation: PR: FIN 3403. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis.

REE 4204 BA-FIN 3(3,0) Real Estate Finance: PR: FIN 3403. Focus on the fundamentals of real estate finance utilizing tools of financial and economic analysis.

REE 4303 BA-FIN 3(3,0) Real Estate Investment Analysis: PR: FIN 3403. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis.

REE 4732 BA-FIN 3(3,0) Real Estate Development: PR: REE 4303. The real estate development process, from the inception of a project through to lease-up, long-term financing, and final sale to the investment community.

REL 2300 AS-PHL 3(3,0) World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam.


REL 3111 AS-PHL 3(3,0) Religion and Philosophy Through Film: PR: ENC 1102 and either PHI 2010 or REL 2300 or FSL 1001. Religions 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-PHL 3(3,0) Religion, Spirituality, and Popular Music: PR: HUM 2230 or REL 2250. Contemporary spiritual sensibilities encountered at the intersection of religion, philosophy, and popular music.

REL 3131 AS-PHL 3(3,0) Religion in America: PR: REL 2300. Religious traditions in America, their relationship to politics, popular culture, media, and society.

REL 3162 AS-PHL 3(3,0) Healing: Culture, Art, and Praxis: PR: Junior standing. An exploration of the culture-specific nature of illness, including soul loss, spirit intrusion and the medicalization of deviance.

REL 4110 AS-PHL 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.

RET 3026C HPA-HP 4(3,3) Introduction to Respiratory Care: PR: Admission to the professional upper-division Respiratory Therapy Program. Fundamental respiratory principles and practices will be studied. Introduction to the profession and basic methods are covered. Lecture and lab.

RET 3174 HPA-HP 3(3,0) Pediatric Respiratory Care: PR: RET 3026. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS.

RET 3264C HPA-HP 3(2,3) Mechanical Ventilation: PR: RET 3026C. Function and use of mechanical ventilators, patient evaluation methods. All forms of ventilatory support will be studied. Lecture and laboratory.

RET 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 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) Problems in Patient Management: PR: RET 3484.


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 4244C. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, stent placement, 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 4715 HPA-HP 3(3,0) Neonatal Medicine: PR: RET 3714C or C.I. Fetal development, prenatal physiology, gas transport in the fetus and newborn. Congenital abnormalities, infections, diseases of the newborn. Resuscitation of the neonate.

RET 4876 HPA-HP 8(1,24) Clinical Practice III: PR: RET 3875. Care of patients with more complex diseases, Pulmonary function studies. Pediatric and neonatal critical care. Echo and cardiac catheterization. Emergency and trauma.

RET 4934 HPA-HP 2(2,0) Selected Topics in Respiratory Therapy: PR: C.I. Current topics of adult critical care, as they apply to the advanced study of respiratory therapy.

RET 5910 HPA-HP 3(3,0) Research Methods in Cardiopulmonary Physiology: Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis.

RMI 3011 BA-FIN 3(3,0) Principles of Risk and Insurance: PR: FIN 3403. Emphasis is on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention.

RTE 3000 HPA-HP 3(3,0) Introduction to Radiologic Sciences: PR: Admission to Radiologic Sciences program. Orientation to career field, radiation protection, principles and procedures of medical
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 3111C HPA-HP</td>
<td>2(1.5,1.5)</td>
<td>Introduction to Patient Care: PR: Acceptance to the program. Provides the student with fundamentals of patient care methods related to radiography.</td>
</tr>
<tr>
<td>RTE 3116 HPA-HP</td>
<td>3(3.0)</td>
<td>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.</td>
</tr>
<tr>
<td>RTE 3308 HPA-HP</td>
<td>3(3.0)</td>
<td>Medical Physics: PR: RTE 3684C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding.</td>
</tr>
<tr>
<td>RTE 3418C HPA-HP</td>
<td>3(2.5,1.5)</td>
<td>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.</td>
</tr>
<tr>
<td>RTE 3457C HPA-HP</td>
<td>3(2.5,1.5,1.5)</td>
<td>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.</td>
</tr>
<tr>
<td>RTE 3503C HPA-HP</td>
<td>3(2.3)</td>
<td>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.</td>
</tr>
<tr>
<td>RTE 3513C HPA-HP</td>
<td>3(2.3)</td>
<td>Radiographic Procedures II: PR: RTE 3503C or C.I. Continuation of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones.</td>
</tr>
<tr>
<td>RTE 3684C HPA-HP</td>
<td>2(2.0)</td>
<td>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.</td>
</tr>
<tr>
<td>RTE 3804 HPA-HP</td>
<td>4(0,16)</td>
<td>Clinical Education I: PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment.</td>
</tr>
<tr>
<td>RTE 4202 HPA-HP</td>
<td>3(3.0)</td>
<td>Methods in Radiology Management: Concepts of radiology, department management, including principles, personnel management, evaluation and improvement techniques, budgeting, financial considerations and legal aspects, and JCAHQuality assurance specifications.</td>
</tr>
<tr>
<td>RTE 4206 HPA-HP</td>
<td>3(3.0)</td>
<td>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.</td>
</tr>
<tr>
<td>RTE 4209 HPA-HP</td>
<td>2(0.8)</td>
<td>Radiological Administrative Practice: A directed practice in the management of a radiology department, with application of theory and methodology.</td>
</tr>
<tr>
<td>RTE 4385 HPA-HP</td>
<td>1(1.0)</td>
<td>Radiobiology: PR: RTE 3308C. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated.</td>
</tr>
<tr>
<td>RTE 4473 HPA-HP</td>
<td>3(3.0)</td>
<td>Quality Improvement: PR: Registered technologist or Senior standing. The study of quality improvement and quality control from the perspective of radiology services.</td>
</tr>
<tr>
<td>RTE 4563 HPA-HP</td>
<td>2(2.0)</td>
<td>Special Radiographic Procedures: PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, cholangiography, hysterosalpingography, and bronchography.</td>
</tr>
<tr>
<td>RTE 4573 HPA-HP</td>
<td>3(3.0)</td>
<td>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.</td>
</tr>
<tr>
<td>RTE 4762 HPA-HP</td>
<td>3(3.0)</td>
<td>Anatomy for the Medical Image: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference.</td>
</tr>
<tr>
<td>RTE 4782 HPA-HP</td>
<td>2(2.0)</td>
<td>Pathophysiology: PR: C.I. The study of radiologic science in the diagnosis and treatment of disease.</td>
</tr>
<tr>
<td>RTE 4814L HPA-HP</td>
<td>5(2,0)</td>
<td>Clinical Education II: PR: RTE 3804. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the chest, abdomen, extremities and shoulder girdle.</td>
</tr>
<tr>
<td>RTE 4824L HPA-HP</td>
<td>6(0,24)</td>
<td>Clinical Education III: PR: RTE 4814. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography.</td>
</tr>
<tr>
<td>RTE 4834 HPA-HP</td>
<td>4(0,16)</td>
<td>Clinical Education IV: PR: RTE 4824. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on surgical and special procedure examinations.</td>
</tr>
<tr>
<td>RTE 4844 HPA-HP</td>
<td>4(0,16)</td>
<td>Clinical Education V: PR: RTE 4834. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on surgical and special procedure examinations.</td>
</tr>
<tr>
<td>RTE 4854 HPA-HP</td>
<td>2(0,8)</td>
<td>Advanced Clinical Practicum: PR: RTE 4824. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonance imaging.</td>
</tr>
<tr>
<td>RTE 4903 HPA-HP</td>
<td>2(0,8)</td>
<td>Directed Study in Radiologic Education: PR: EVT 3371 or EDX 4230 or C.I. Directed activity in classroom instruction in radiologic technology.</td>
</tr>
<tr>
<td>RTV 3000 AS-R/TV</td>
<td>3(3.0)</td>
<td>Development and Structure of Electronic Media and New Technology: PR: SPC 1600 or C.I. Nature of the media, the mechanics of operation of analog and digital systems, history, economics, programming, and internal and external controls.</td>
</tr>
<tr>
<td>RTV 3200 AS-R/TV</td>
<td>3(3.0)</td>
<td>Production Fundamentals and Aesthetics of Electronic Media: PR: or CR: RTV 3000 or C.I. Technical and creative concepts of analog and digital electronic media production for radio, television, and multimedia delivery systems.</td>
</tr>
<tr>
<td>RTV 3223C AS-R/TV</td>
<td>3(3,3)</td>
<td>Lighting for Video: PR: RTV 3228C, RTV Major. Basic lighting techniques for both studio and location, single and multiple-camera video production.</td>
</tr>
<tr>
<td>RTV 3228C AS-R/TV</td>
<td>4(4,3)</td>
<td>Studio Television Production: PR: RTV 3200 and RTV major. All aspects of analog and digital television studio production including audio mixers, microphones, tape recorders, cameras, video switches, lighting, and electronic graphics.</td>
</tr>
<tr>
<td>RTV 3231C AS-R/TV</td>
<td>4(1,3)</td>
<td>Broadcast Announcing and Performance: PR: RTV Majors only, RTV 3210C or RTV 3208C or RTV 4270C or C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting.</td>
</tr>
<tr>
<td>RTV 3260C AS-R/TV</td>
<td>4(4,3)</td>
<td>Single Camera Video Production and Editing: PR: RTV 3200, RTV Major. Technical and aesthetic requirements of analog and digital single-camera video production and editing, including techniques for electronic news gathering (ENG) and electronic field production (EFP).</td>
</tr>
<tr>
<td>RTV 3263C AS-R/TV</td>
<td>3(3,3)</td>
<td>Advanced Video Post-Production: PR: RTV 3260C, RTV Major. Advanced post-production techniques for analog and digital video, including A/B roll time code editing, digital video effects, electronic graphics, and non-linear video editing systems.</td>
</tr>
<tr>
<td>RTV 3283C AS-R/TV</td>
<td>3(3,1)</td>
<td>Production of Interactive Multimedia: PR: CGS 1060C, major status in RTV, Ad/PTR, Journalism, Organizational or Interpersonal Communication. Practice and production of electronic interactive multimedia for the broadcast industry.</td>
</tr>
<tr>
<td>RTV 3301 AS-R/TV</td>
<td>3(3,0)</td>
<td>Electronic Journalism I: PR: RTV 2102, RTV Major. Newswriting and newsathering skills and strategies and their accompanying ethical considerations for analog and digital delivery of broadcast journalism.</td>
</tr>
<tr>
<td>RTV 3304 AS-R/TV</td>
<td>3(3,0)</td>
<td>Electronic Journalism II: PR: RTV 3301, RTV 3260C, and RTV Major. Newswriting and newsathering strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages.</td>
</tr>
</tbody>
</table>
| 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 3220C, 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, RTV Major. Preparation and direction of programs, using both digital and analog resources, with emphasis on dramatic value and composition.

RTV 4211C AS-R/TV 3(3,3) Audio Production II: PR: RTV 3210C and RTV Major. Study and production of current radio formats, the integration of digital resources, and their effects on today's radio listener.

RTV 4270C AS-R/TV 3(3,3) Radio Production and Programming: PR: RTV 3200, RTV Major. Study and production of current radio formats, the integration of digital resources, and their effects on today's radio listener.

RTV 4280C AS-R/TV 3(3,3) Webcasting I: PR: RTV Major and PR or CR: RTV 3283C. Presentation of broadcast material on the web. Integrates the distribution of radio, television, and web content.

RTV 4281C AS-R/TV 3(3,3) Webcasting II: PR: RTV 4280C and RTV Major. Production of digital media in conjunction with other RTV production activities to repurpose broadcast content for delivery on the web.

RTV 4320C AS-R/TV 3(1,3) Television News: PR: RTV 3304, RTV Major. Production of a weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director.

RTV 4322C AS-COMM 3(1,3) Advanced TV News: PR: RTV 4320C, RTV Majors only and C.I. Supervised broadcast news experience and/or 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 and 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 lan- guage.

RUS 1121 AS-LANG 4(4,1) Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120.

RUS 2210 AS-LANG 3(3,0) Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking.

RUS 2230 AS-LANG 3(3,1) Intermediate Russian Language and Civilization I: PR: RUS 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

RUS 2231 AS-LANG 3(3,1) Intermediate Russian Language and Civilization II: PR: RUS 2230 or equivalent. Continuation of RUS 2230, with emphasis on Russian civilization.

RUS 3240 AS-LANG 3(3,0) Russian Conversation: PR: RUS 2231 or equivalent. Development of skills in conversation and comprehension through practice.

RUS 3760 AS-LANG 3(3,0) Advanced Russian Oral Communication: PR: RUS 2231 or equivalent. Vocabulary building with systematic training in diction and location. Speeches and oral presentations as well as production and delivery of real-life dialogues.

SCE 3310 ED- TLP 3(3,0) Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures.

SCE 3460 ED-TLP 3(3,2) Science Instructional Analysis: PR: EDG 4323 or C.I. Course objectives for a school curriculum and methods and materials for the middle grades and high school.

SCE 3525 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 5716 ED-TLP 3(3,0) Methods in Elementary School Science: PR: EDG 4323. Organization of instruction in elementary school science including methods, evaluation, materials, strategies, and current practices.

SCE 5825 ED-TLP 3(3,0) Space Science for Educators: PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum.

SLS 1501 ED-ES 1(0,2) Strategies for Success in College: This course is designed to address the development of life-skills necessary for the contemporary student to appropriately adjust to college requirements that lead to self-mastery and the total concept of lifetime wellness.

SLS 2311 HPA-M&M 1(0,2) Overview of Select Medical Careers: An overview of the pre-health professions process for careers in medicine, dentistry, veterinary medicine, optometry, pharmacy, podiatry, and chiropractic. Graded S/U.


SOP 3004 AS-PSYCH 3(3,0) Social Psychology: PR: PSY 2012. Effects of social situations and social variables on the behavior of individuals.

SOP 3723 AS-PSYCH 3(3,0) Cross Cultural Psychology: PR: PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups.

SOP 3724 AS-PSYCH 3(3,0) The Psychology of Racial Prejudice: PR: PSY 2012. Examination of literature relating to prejudice toward ethnic groups; effects of racism on individuals, development and maintenance of prejudice, and possible ways to reduce prejudice.

SOP 3742 AS-PSYCH 3(3,0) Psychology of Women: PR: PSY 2012. Examination of the psychological impact of changing sex roles on women in modern society. Topics include child rearing, working women, and sex differences in personality and cognition.

SOP 3744 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.

SOP 3784 AS-PSYCH 3(3,0) Psychology of Diversity: PR: PSY 2012. A review of the contributions of psychology to the understanding of human diversity related to ethnic background, gender, sexuality, and belief systems.

SOP 5059 AS-PSYCH 3(3,0) Advanced Social Psychology: PR: SOP 3004, 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 3104 HPA-SOWK 3(3,0) Assessing I: 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 II: 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 Welfare and Community Resources: Study of social welfare, programs and services, including forces affecting changes in societal responses to human needs. Open to non-majors and pending social work majors.


SOW 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 contexts of social work.

SOW 3401 HPA-SOWK 3(3,0) Social Work Research: PR: CGS 1060C. Study of quanti-
SOW 3420 HPA-SOWK 3(2,1) Social Work with Minori ties: PR: SOW 3203, and SOW 3104. Study of oppressed groups and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups.

SOW 4232 HPA-SOWK 3(3,0) Social Welfare Policies and Issues: PR: SOW 3203 or equivalent. Development of skills needed to critically analyze social welfare goals, structures, and practices. Proposes improvements in societal resource systems.

SOW 4341 HPA-SOWK 3(1,2) Micro-Level Roles and Interventions in Social Work: PR: SOW 3000, 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 3000, 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 systemic data collection and 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 3104, or Gerontology Certificate Major or C.I. Development of intervention 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(3,0) Children’s Services: PR: or CR: SOW 3104. Study of societal responses to children’s needs. Development of skills for preventing family breakdown, placing children in alternative care, and reuniting children with their families.

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 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, problems, and service issues of several identified minority client populations.

SOW 5235 HPA-SOWK 3(3,0) Social Welfare Policies and Services: Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services.

SOW 5305 HPA-SOWK 3(3,0) Social Work Practice I: Generalist Practice: Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice.

SOW 5306 HPA-SOWK 3(3,0) Social Work Practice II: Intervention Approaches: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs.

SOW 5355 HPA-SOWK 3(3,0) Studies in Social Work Practice: PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit.

SOW 5387 HPA-SOWK 3(3,0) Nonprofit Resource Development: PR: Admission to certificate program or C.I. Resource Development in nonprofit organizations, including board development and leadership, volunteer program development, staff development, grant funding, fundraising, marketing, and government contract development and management.

SOW 5404 HPA-SOWK 3(3,0) Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues.

SOW 5432 HPA-SOWK 3(3,0) Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities.

SOW 5532 HPA-SOWK 2(2,0) Generalist Field Education I: PR: Admission to MSW 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 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: CR: 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 certification program or MSW program or C.I. Study of concepts, models, theories and strategies for intervening with aged. Special attention is given to minority populations.


SOW 5655 HPA-SOWK 3(3,0) Child Abuse: Treatment and Prevention: The social worker’s role and interventions with victims of child abuse and their family members.

SOW 5662 HPA-SOWK 3(3,0) Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance.

SOW 5670 HPA-SOWK 3(3,0) Gay and Lesbian Experience in American Society: PR: seniors or graduate status. Sexual orientation in a cultural context: resources and polices 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. CR: 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) Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An indepth review of preventivon, intervention and treatment of Adolescent Substance Abuse

SOW 5846 HPA-SOWK 3(3,0) Spirituality in Professional Counseling: PR: graduate standing, post-bac status, seniors, or C.I. Examination of spirituality as it relates to professional counseling.

SPA 2631 HPA-COMD 3(3,0) Issues of Deafness: PR: C.I. The impact of deafness on individual, family and social problems in the deaf community and culture, including historical and changing attitudes toward persons and disabilities.

SPA 3000 HPA-COMD 3(3,0) Detection and Prevention of Speech and Hearing Problems: An elective course for non-majors. Live and videotaped demonstrations of speech and hearing cases. Specific suggestions for prevention.

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 HPA-COMD 1(0,1) Speech Production Lab: PR: SPA 3112C. 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 3104 HPA-COMD 3(3,0) Neural Bases of Communication: PR: SPA 3011. Structures and functions of the nervous system involved in communication and its disorders.

SPA 3112 HPA-COMD 3(3,0) Basic Phonetics: CR: SPA 3122L. Physiological descriptions and visual notation of standard speech patterns and regional dialects.

SPA 3112L HPA-COMD 1(0,1) Basic Phonetics Lab: CR: SPA 3112. Practice in the transcription of normal and deviant speech samples. Graded SU.

SPA 3123 HPA-COMD 3(3,0) Speech Science Ii: Perception: PR: SPA 3112C, SPA 3011. CR: SPA 3123L. How the perception of human speech differs from that of other auditory signals.
SPA 5473 HPA-COMD 3(3,0) Multicultural Aspects of Communication Disorders and Differences: PR: Graduate status. Introduction to cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native-American.

SPA 5477 HPA-COMD 3(3,0) Aging and Communication: PR: Senior status or C.I. Study of the changes in communication with normal aging, focusing on assessment and management of older individuals with communication disorders.

SPA 5559 HPA-COMD 3(3,0) Augmentative and Alternative Communication Systems: PR: Senior status or C.I. The total 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 Communication 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 1600 AS-COMM 3(3,0) Fundamentals of Oral Communication: Communication theory and its application to preparing and delivering public speeches.


SPC 2301 AS-COMM 3(1,2) Interpersonal Communication: Nature of the communication process; variables affecting the process and the individuals involved. Analysis of communication models, interactant 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 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) Group Dynamics: PR: COM 3311. Human behavior in group situations.

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: Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

SPN 1121 AS-LANG 4(4,1) Elementary Spanish Language and Civilization II: PR: SPN 1120 or equivalent. Continuation of SPN 1120.

SPN 1130H AS-LANG 4(4,1) Honors Elementary Spanish Language and Civilization I: 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 and SPN 1130H or equivalent. Same as SPN 1121 with honors-level content.

SPN 1170 AS-LANG 8(16,10) Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment.

SPN 2230 AS-LANG 3(3,1) Intermediate Spanish Language and Civilization I: PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

SPN 2231 AS-LANG 3(3,1) Intermediate Spanish Language and Civilization II: PR: SPN 2230 or equivalent. Continuation of SPN 2230, with emphasis on Spanish civilization.

SPN 2240 AS-LANG 3(3,1) Intensive Spanish Conversation: PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level.

SPN 2241 AS-LANG 3(3,0) Spanish Conversation: PR: SPN 2231 or equivalent. Development of skills in conversation and comprehension through practice.

SPN 2340 AS-LANG 3(3,0) Spanish for Native Speakers: PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language.

SPN 2511 AS-LANG 3(3,0) Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and realia are essential components of this course.

SPN 3140 AS-LANG 3(3,0) Business Spanish I: PR: SPN 2230 and SPN 2231 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World.

SPN 3141 AS-LANG 3(3,0) Business Spanish II: PR: C.I. Continuation of Business Spanish I.

SPN 3142 AS-LANG 3(3,0) Business Spanish III: PR: C.I. Continuation of Business Spanish II.

SPN 3232 AS-LANG 3(3,0) Advanced Directed Readings: PR: SPN 2230 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers.

SPN 3300 AS-LANG 3(3,0) Advanced Spanish Grammar and Composition: PR: SPN 2231 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts.

SPN 3341 AS-LANG 3(3,0) Advanced Spanish for Native Speakers: PR: SPN 2340 or C.I. This course is the continuation of SPN 2340 geared towards native speakers and will complete the remaining grammatical topics as well as emphasize composition skills.

SPN 3343 AS-LANG 3(3,0) Advanced Rhetoric for Native Speakers: PR: Third year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only.

SPN 3344 AS-LANG 3(3,0) Advanced Spanish Native Fluency I: PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers.

SPN 3345 AS-LANG 3(3,0) Advanced Spanish Native Fluency II: PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I emphasizing the remaining grammatical topics and composition skills.

SPN 3402 AS-LANG 3(3,0) Practice in Modern Spanish Grammar: PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts.

SPN 3420 AS-LANG 3(3,0) Spanish Composition: PR: SPN 2231 or equivalent. Development of skills in composition.

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 intonation. 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)
Bilingüismo: 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 Conversation: PR: SPN 3760, SPN 3420, and SPN 3300 or C.I. Advanced conversation on directed topics from various disciplines: literature, art, psychology, philosophy, music, business, and the sciences.

SPN 4421 AS-LANG 3(3,0)
Advanced Spanish Composition: PR: SPN 3760, 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 pronunciation 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 U.S.

SPN 4801 AS-LANG 3(3,0)
Spanish Morphology: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criterion 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 Dialectology: 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 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, comprehension, speaking, reading, and writing.

SPT 3800 AS-LANG 3(3,0)
Spanish Translation and Interpretation: PR: Completion of 200 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/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 Practice: 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)
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(3,0)
Latin-American Narrative/Essay: PR: SPW 3100 or SPW 3130 or SPW 3131 or SPW 3370 or C.I. Study of Latin-American narrative/essay (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes.

SPW 4381 AS-LANG 3(3,0)
Latin-American Theatre/Poetry: PR: SPW 3100 or SPW 3101 or SPW 3130 or SPW 3131 or SPW 3370 or C.I. 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(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 America literary history. Taught in Spanish.

SPW 4450 AS-LANG 3(3,0)
Spanish Literary Theory: PR: SPW 3100 and SPW 3101, or SPW 3130 and SPW 3131, or C.I. A study of textual criticism with emphasis in the theory of genre.
SPW 4460 AS-LANG 3(3,0) Nineteenth Century Spanish Literature: PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism.

SPW 4600 AS-LANG 3(3,0) Cervantes: PR: SPW 3100 or C.I. Don Quixote.

SPW 4720 AS-LANG 3(3,0) The Generation of 1898: PR: SPW 3101 or C.I. A study of the generation's main authors and their works.

SPW 4730 AS-LANG 3(3,0) Hispanic Literature of the United States: PR: SPW 3101 or SPW 3131 or C.I. Reading and study of outstanding works written by Hispanic writers of the United States.

SPW 4770 AS-LANG 3(3,0) Caribbean Spanish Literature: PR: SPW 3101 or SPW 3131 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present.

SPW 4772 AS-LANG 3(3,0) Black Presence in Contemporary Latin American Literature: PR: SPW 3101 or SPW 3131 or C.I. Analysis and discussion of representative contemporary work of authors who have included the black character as part of their narrative.

SSE 3312 ED-TLP 3(3,0) Teaching Social Science in the Elementary School: PR: Admission to Phase II or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques; evaluation procedures.

SSE 4361 ED-TLP 4(4,0) Social Science Instructional Analysis: PR: EDG 4323 or C.I.; CR: ESE 3840 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(3,0) Methods in Elementary School Social Science: PR: EDG 4323. Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting.

SSE 5391 ED-TLP 3(3,0) 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 theoretical grounded teaching strategies for engaging students in global education.

SSE 5776 ED-TLP 3(3,0) Democracy and Education: PR: Graduate standing or C.I. Examines the theoretical underpinnings of teaching about the world along with a variety of theoretical grounded teaching strategies for engaging students in global education.

SSE 5790 ED-TLP 3(3,0) Inquiry and Instructional Analysis in Social Science Education: PR: Admission to M.A. program or alternative certification certificate program. Study of instructional programs in social science education and related scholarship; development of an inquiry about the intersection of theory and practice in social science teaching.

STA 1060C AS-STAT 3(2,1) Basic Statistics Using Microsoft Excel: Applications of Excel; manipulating data; single variable graphs and statistics; scatterplots; probability distributions; statistical inference.

STA 2014C AS-STAT 3(2,1) Principles of Statistics I: Introduction to statistical concepts in modern society. Basic principles, frequency distributions, measures of location and dispersion, probability, statistical inference. The "NC" grading policy applies to this course.

STA 2023 AS-STAT 3(3,0) Statistical Methods I: PR: MAC 1105 or MGF 1106. First methods course introducing probability and statistical inference, including estimation, hypothesis testing, binomial and normal distributions, sample size.

STA 2023H AS-STAT 3(3,0) Honors Statistical Methods I: PR: Permission of Honors. Calculus desired by not necessary. Same as STA 2023 with honors-level content.

STA 3032 ECS-IEMS 3(3,0) Probability and Statistics for Engineers: PR: MAC 2312 and computer programming. Axioms of probability; combinatory and geometrical probability; probability distributions; measures of location and dispersion; sampling and sampling distributions; estimation and tests of hypotheses; engineering applications.

STA 3096 AS-STAT 3(3,0) Statistical Graphics: PR: STA 2023 or STA 3052 and a knowledge of a programming language. Principles of graph construction, graphical perception, graphical methods, computer programs for graph construction.

STA 4102 AS-STAT 3(3,0) Computer Processing of Statistical Data: PR: STA 4163 and a knowledge of a programming language. Use of packages such as SAS, BMD, SPSS for data validation, description and analysis of data, regression and analysis of variance and covariance.

STA 4130 AS-STAT 3(3,0) Life Contingencies I: PR: STA 4130 (or new number STA 4183). Economics of insurance, utility theory, single premiums for insurance and annuities in both discrete and continuous cases. Net annual premium and net premium reserves.


STA 4163 AS-STAT 3(3,0) Statistical Methods II: PR: STA 2023 or STA 3023. 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(3,0) Statistical Methods III: PR: STA 4163. A continuation of STA 4163, including further study of regression, analysis of variance and covariance and multiple comparisons.

STA 4165 AS-STAT 3(3,0) Statistical Methods II with Computer Emphasis: PR: STA 2023 or STA 3023. Not open to students with credit in STA 4163. Methods for analyzing data, design of experiments, non parametric methods, categorical analysis, model building, covariance analysis, strong emphasis on use of a computer package.

STA 4173 AS-STAT 3(3,0) Biostatistical Methods: CR: STA 4163. Introduction to the application of statistical principles and methods to problems in medical, biological, and health sciences.

STA 4183 AS-STAT 3(3,0) Theory of Interest: PR: MAC 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 4321 AS-STAT 3(3,0) Statistical Theory I: PR: STA 2023 or STA 3032; CR: MAC 2313. Probability axioms, discrete and continuous sample spaces, conditional probability, independence, one and multi-sample tests, estimation, confidence intervals, transformations, jointly distributed random variables.

STA 4322 AS-STAT 3(3,0) Statistical Theory II: PR: STA 4321. Conditional distributions, sums of random variables, Chebyshev's inequality, central limit theorem, method of moments, maximum likelihood, confidence intervals, hypothesis testing, transformations of two random variables.

STA 4502 AS-STAT 3(3,0) Nonparametric Statistical Methods: PR: STA 2023 or STA 3032. Distribution-free tests on location and dispersion, goodness of fit tests, tests of independence, measures of association, nonparametric analysis of variance.

STA 4504 AS-STAT 3(3,0) Categorical Data Analysis: PR: STA 4163 or STA 4165. Two-way and three-way contingency tables, odds ratios, partial association, logistic regression and log linear models.

STA 4641 AS-STAT 3(3,0) Risk Theory and Decision: PR: STA 4322. Individual and collective risk models for short term and long term contracts, expected values, decision-making, decision making under uncertainty, decision making under risk, decision making under uncertainty, decision making under risk, decision making under uncertainty.

STA 4664 AS-STAT 3(3,0) Statistical Quality Control: PR: STA 2023 or STA 3023. Statistical concepts and methods applied to the control of quality of manufactured products.


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 prob-
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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 2023, 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 4173, graduate status or senior standing, or C.I. Fixed-effects model, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportional hazards model.

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. Measurement of Interest, valuation of annuities, determination of yield rates on investments, fixed income securities, mortgages, etc.

STA 5205 AS-STAT 3(3,0) Experimental Design: PR: STA 4164, STA 5206 or ESI 5219, 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 2022; 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 log-linear modeling, logistic regression, McNemar’s Test, Mantel-Haenszel test.

STA 5646 AS-STAT 3(3,0) Casualty Insurance: PR: STA 4322 and STA 4641, graduate status or senior standing, or C.I. Individual risk rating and classification of risk for property/casualty insurance. Re-insurance and expense reserves. Reserves for insurance and loss adjustment expenses. Investment income.

ST 5703 AS-STAT 3(3,0) Data Mining Methodology b: 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, recurrent events, 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 problems, data sources, sampling techniques, computer package usage, analysis, interpretation. May be repeated for credit. Graded S/U.

SUR 2101C ECS-CEE 2(2,3) Surveying: PR: MAC 2312 and Junior standing. Theory and field practice in surveying measurements and the reduction and adjustment of field data.

SYA 3110 AS-SOC/AN 3(3,0) The Development of Social Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. Theories concerning the nature of mankind as a “social being.” The nature of society from the beginnings of the scientific study of human life to World War II.

SYA 3120 AS-SOC/AN 3(3,0) Modern Sociological Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. A study of major European and American contributors to modern sociology since World War II.


SYA 4300C 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 4300C. 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 4300C and SYA 3400. Advanced social research design and analytical skills. Emphasis on social data management, various modes of social data analysis, interpretation, integration, presentation, and report writing.


SYA 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 sovereignty, legal rights. Issues include myths, gender roles, coerced sterilization, child welfare, and economic opportunities.

SYD 3752 AS-SOC/AN 3(3,0) Modern Law in Indian Country: PR: 2000 level social science course or C.I. Examination of impact of unique legal relationship between American Indian governments and state federal governments. Legal issues include criminal justice, child welfare, and land ownership.

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 5795 AS-SOC/AN 3(3,0) Class, Race, and Gender in American Society: PR: Graduate status or senior standing or C.I. Using theoretical and empirical studies, this course will provide a sociological examination of the intersections of race, class, and gender in American society.

SYG 2000 AS-SOC/AN 3(3,0) General Sociology: Introduction to the sociological perspective and the scientific study of sociological concepts, theories, processes, and methods used in understanding contemporary human behavior in group interaction.

SYG 2000H AS-SOC/AN 3(3,0) General Sociology: PR: Permission of Honors. Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology.

SYG 2010 AS-SOC/AN 3(3,0) Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence.

UCF Courses and Descriptions
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYG 3949</td>
<td>AS-SOC/AN Cooperative Education in Sociology</td>
<td>0(0,8)</td>
<td>PR: Departmental permission required before registering. Cooperative education experience in sociology. May be repeated. Graded S/U.</td>
</tr>
<tr>
<td>SYO 3000</td>
<td>AS-SOC/AN Modern Sociology</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. Exploration of contemporary sociology. Conceptual analysis and methodological techniques, presentation and utilization of sociological literature on major social institutions.</td>
</tr>
<tr>
<td>SYO 3360</td>
<td>AS-SOC/AN Social Organization and Human Relations</td>
<td>3(3,0)</td>
<td>PR: Junior Standing or C.I. Analysis of business, government, and industrial organizations. Topics include organizational theory, social systems, structure, effects of technology, motivation, leadership, decision-making, and human relations.</td>
</tr>
<tr>
<td>SYO 3530</td>
<td>AS-SOC/AN Social Stratification</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change.</td>
</tr>
<tr>
<td>SYO 4100</td>
<td>AS-SOC/AN Family Trends</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. Close examination of marriage.</td>
</tr>
<tr>
<td>SYO 4200</td>
<td>AS-SOC/AN Sociology of Religion</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. The relationship between the religious institution and social stratification, family, education, as well as issues pertaining to gender, race, ethnicity, and age.</td>
</tr>
<tr>
<td>SYO 4250</td>
<td>AS-SOC/AN Sociology of Education</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. This course examines the sociological dimensions of the educational institutions, including the impact of the social structure on learning and the role of education in social change.</td>
</tr>
<tr>
<td>SYO 4300</td>
<td>AS-SOC/AN Political Sociology</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. Analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government.</td>
</tr>
<tr>
<td>SYO 4400</td>
<td>AS-SOC/AN Medical Sociology</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. Analysis of patient beliefs and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care.</td>
</tr>
<tr>
<td>SYP 3300</td>
<td>AS-SOC/AN Collective Behavior</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. Analysis of relatively unstructured social situations, such as mobs, crowds, etc. as well as more structured forms of collective behavior such as social movements.</td>
</tr>
<tr>
<td>SYP 3400</td>
<td>AS-SOC/AN Social Change</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. Context and essential sources of social development and change.</td>
</tr>
<tr>
<td>SYP 3510</td>
<td>AS-SOC/AN Sociology of Deviant Behavior</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization.</td>
</tr>
<tr>
<td>SYP 3511</td>
<td>AS-SOC/AN Sociology of Murder</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances.</td>
</tr>
<tr>
<td>SYP 3520</td>
<td>AS-SOC/AN Criminology</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances.</td>
</tr>
<tr>
<td>SYP 3540</td>
<td>AS-SOC/AN Juvenile Delinquency</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. The relationship between law and society, including the functions of law and its organization, social and economic consequences, jury selection, and modern trends.</td>
</tr>
<tr>
<td>SYP 3551</td>
<td>AS-SOC/AN Sociology of Alcoholism</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society.</td>
</tr>
<tr>
<td>SYP 3602</td>
<td>AS-SOC/AN Sociology of Popular Music</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. The role of popular music in social change and in reflecting American culture. Consideration is given to the nature of the popular music business.</td>
</tr>
<tr>
<td>SYP 3630</td>
<td>AS-SOC/AN Sociology of Popular Culture</td>
<td>3(3,0)</td>
<td>PR: Junior Standing or C.I. Examinations the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age.</td>
</tr>
<tr>
<td>SYP 3650</td>
<td>AS-SOC/AN Sociology and Sport</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. An exploration of the social role of sports in social change.</td>
</tr>
<tr>
<td>SYP 3652</td>
<td>AS-SOC/AN Sociological Perspectives on Domestic Violence</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. Sociological perspectives on all forms of domestic violence, including theorectical explanations, prevalence, risk factors, dynamics of prevention, and intervention.</td>
</tr>
<tr>
<td>SYP 4000</td>
<td>AS-SOC/AN Sociological Social Psychology</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. Study of social perception, attitude formation and change, motivation, and decision-making in small groups as affected by social interaction and social processes.</td>
</tr>
<tr>
<td>SYP 4004</td>
<td>AS-SOC/AN Constructing Social Issues</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of social problems as an emergent process that involves collective definitions and legitimating organizations. Topics include deviance, race, gender, and popular culture.</td>
</tr>
<tr>
<td>SYP 4323</td>
<td>AS-SOC/AN Social Systems and Diversity</td>
<td>3(3,0)</td>
<td>PR: SYG 2000, junior standing. The formation of social systems in response to social problems and the implementation of public policy. Emphasis on diverse perspectives and ethical positions and their effect on the formation and effectiveness of social systems.</td>
</tr>
<tr>
<td>SYP 4454</td>
<td>AS-SOC/AN Sociology of the Global System</td>
<td>3(3,0)</td>
<td>PR: SYG 2000 or C.I. Theoretical and empirical examination of the sociological process of global stratification and the countervailing force of an emergent anti-globalization social movement.</td>
</tr>
</tbody>
</table>

### Additional Courses

- **SYP 4521**: AS-SOC/AN Criminal Victimization in Society: PR: SYG 2000, or SYG 2010 or C.I. Crime victims in society; topics include issues related to victimology such as victimization risks and societal treatment of victims. |
- **SYP 4536**: AS-SOC/AN Gangs and Society: PR: SYG 2000 or SYG 2010 or C.I. Gangs in the U.S.; topics include types of gangs, gang members, activities, group processes, and societal responses to gangs. |
- **SYP 4734**: AS-SOC/AN Minority Aging: PR: SYG 2000 or SYG 3700 or SYP 4730 or C.I. A sociological examination of older populations within minorities: ethnic minorities, women, and gay men and lesbians. |
- **SYP 4810**: AS-SOC/AN 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 polity). |
- **SYP 4813**: AS-SOC/AN Women and Social Policy: PR: SYG 2000 or SYG 2010 or C.I. The process of social movements and how they impact legalized social norms for women in public and private life. |
- **SYP 5005**: AS-SOC/AN Sociological Social Psychology: PR: Graduate status or senior standing or C.I. An exploration of sociological social psychological theories and their application in understanding the effects of society and groups on the individual. |
- **SYP 5526**: AS-SOC/AN Sociological Criminology: PR: Graduate status or senior standing or C.I. Examination of current sociological knowledge and research on various issues in Criminology, and to further students’ skills in developing/conducting research projects. |
- **SYP 5562**: AS-SOC/AN Seminar on Domestic Violence: Theory, Research and Social Policy: PR: Graduate status or senior standing or C.I. A sociological examination and evaluation of theories, empirical research and social policy related to the study of domestic violence. |
- **SYP 5738**: AS-SOC/AN 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 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 Federal Income Tax I: PR: Accounting major or minor, Junior standing and ACG 361 with a grade of “C” or better or C.I. Concepts and methods of determining taxable income. |
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 2000</td>
<td>Theatre Survey: Overview of the art and craft of the theatre</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 2000H</td>
<td>Theatre Survey - Honors: Required of all BA theatre majors. Not restricted to theatre majors.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 2020</td>
<td>Survey of Theatre for Majors: Technical theatre production. Required of all BA theatre majors.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 2090</td>
<td>Theatre Production/Performance I: A chronological study of the history of the theatre arts from prehistory through the seventeenth century.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 2091</td>
<td>Theatre Production/Performance II: Emphasis on the production of modern drama.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 2271</td>
<td>Performance Studies: Production of plays from Sophocles to Jonson.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 3092</td>
<td>Theatre Production/Performance III: Musical theatre.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 3110</td>
<td>Theatre History I: A history of drama and the theatre through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 3111</td>
<td>Theatre History II: A history of drama and the theatre from the eighteenth century to the present.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 3230</td>
<td>Community within Cultural Diversity Experienced through Theatre: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 3240</td>
<td>Musical Theatre Survey: An overview of the historical development of musical theatre.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 3303</td>
<td>Play Analysis: A study of the theatre arts from prehistory through the eighteenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 3305</td>
<td>Dramatic Literature I: An in-depth study of the theatre arts from prehistory through the eighteenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 3306</td>
<td>Dramatic Literature II: An in-depth study of the theatre arts from prehistory through the eighteenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 4093</td>
<td>Theatre Production/Performance IV: A chronological study of the history of the theatre arts from prehistory through the seventeenth century.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 4094</td>
<td>Theatre Production/Performance V: A chronological study of the history of the theatre arts from prehistory through the seventeenth century.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 4096</td>
<td>Theatre Production/Performance VI: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 4097</td>
<td>Theatre Production/Performance VII: A chronological study of the history of the theatre arts from prehistory through the seventeenth century.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 4098</td>
<td>Theatre Production/Performance VIII: A chronological study of the history of the theatre arts from prehistory through the seventeenth century.</td>
<td>1(0,20)</td>
</tr>
<tr>
<td>THE 4372</td>
<td>Theatre History of Tennessee Williams: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 5246C</td>
<td>Musical Theatre: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 5248</td>
<td>Musical Theatre in History: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 5269</td>
<td>Period Projects, Furniture &amp; Architecture: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 5275</td>
<td>Survey of Musical Theatre Dance: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>THE 5307</td>
<td>Contemporary Theatre Practice: An in-depth study of the theatre arts from prehistory through the seventeenth century.</td>
<td>3(3,0)</td>
</tr>
</tbody>
</table>

### Course Notes
- **THE 3005**: 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**: Restricted to B.A. Theatre majors or departmental consent. A laboratory course exploring the history of the theatre arts from prehistory through the eighteenth century. 
- **THE 3306**: Restricted to B.A. Theatre majors or departmental consent. A laboratory course exploring the history of the theatre arts from prehistory through the eighteenth century.
- **THE 4094**: Restricted to B.A. Theatre majors or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.
- **THE 4096**: Restricted to B.A. Theatre majors or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.
- **THE 4097**: Restricted to B.A. Theatre majors or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.
- **THE 4098**: Restricted to B.A. Theatre majors or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

### Additional Courses
- **THE 5246C**: Advanced Musical Theatre: An in-depth study of the theatre arts from prehistory through the eighteenth century. 
- **THE 5248**: Advanced Musical Theatre in History: An in-depth study of the theatre arts from prehistory through the eighteenth century.
- **THE 5269**: Advanced Period Projects, Furniture & Architecture: An in-depth study of the theatre arts from prehistory through the eighteenth century.
- **THE 5275**: Survey of Advanced Musical Theatre Dance: An in-depth study of the theatre arts from prehistory through the eighteenth century.
- **THE 5307**: Contemporary Theatre Practice: An in-depth study of the theatre arts from prehistory through the eighteenth century.
TPA 2290 AS-THEA 1(0,20)
Theatre Production/Performance I: PR: Not restricted to Theatre majors but requires Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors.

TPA 2291 AS-THEA 1(0,20)
Theatre Production/Performance II: PR: TPA 2290, open to non-Theatre majors with Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors.

TPA 3040 AS-THEA 3(2,2)
Costume Design: PR: TPA 2000C, TPA 2071C, TPA 3217, TPA 3044C and B.F.A. Theatre majors. Lecture/labatory application of the fundamentals of design, composition, color theory, and figure drawing as they relate to costume design. Includes scripting/character analysis and project design work with an emphasis on visualization of design concepts and costume renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3043C AS-THEA 3(3,1)
Costume History I: PR: or CR: THE 3310. Theatre majors or departmental consent. Costume fashion from ancient Egypt to the mid 17th century, including basic period silhouette, costume parts and accessories.

TPA 3044C AS-THEA 3(3,1)
Costume History II: PR: TPA 3043C, Restricted to Theatre majors or departmental consent. Costume fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories.

TPA 3060 AS-THEA 3(2,2)

TPA 3061 AS-THEA 3(2,2)
Scene Design II: PR: TPA 3060. Restricted to B.F.A. technical Theatre/design majors or Departmental consent. Continuation of TPA 3060. An intensive, practical scenic design course dealing with various theatrical styles, genres, multiple and simultaneous settings. Includes script analysis and project design work with an emphasis on visualization of design concepts through models and scenic renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3077 AS-THEA 2(2,2)
Scene Painting: PR: TPA 2210 and B.F.A. Technical Theatre Design majors or Stage Management majors. Study of the art of craft and painting for the theatre. Research into period designs and execution of examples selected from a variety of styles. Required of all B.F.A. technical theatre/design majors.

TPA 3195 AS-THEA 3(0,30)
Stagecraft I: PR: TPA 2111. B.F.A Technical Design or Stage Management major. A continuation of TPA 2111 with emphasis on special projects.

TPA 3216C AS-THEA 3(3,4)
Stagecraft III: PR: TPA 2211. B.F.A Technical Design or Stage Management major. A continuation of TPA 2211 with emphasis on special projects.

TPA 3221 AS-THEA 3(2,2)

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/labory study of the basic techniques used in the drafting, cutting, fitting, and construction of stage costumes. Required of all technical theatre/design majors.

TPA 3249 AS-THEA 2(2,2)
Advanced Makeup Techniques: PR: TPA 2248C. Restricted to B.F.A. Theatre majors or departmental consent. Lecture/labatory study of basic techniques needed for the creation of stage and film prosthetics and masks.

TPA 3250 AS-THEA 2(2,0)
CADD for Theatre: PR: Restricted to B.F.A. Theatre majors or departmental consent. Projects oriented course covering fundamental material in computer aided drafting and design and its application for Theatre. Required of all technical theatre/design majors.

TPA 3251 AS-THEA 2(2,0)
Advanced CADD for Theatre: PR: TPA 3250. Restricted to B.F.A. Theatre majors or departmental consent. Continuation of TPA 3250 with special emphasis placed on 3-Dimensional aspects and applications of computer aided drafting and design for Theatre.

TPA 3260 AS-THEA 3(3,0)

TPA 3401 AS-THEA 3(3,0)
Theatre Careers for Tech/Management: PR: B.F.A. Theatre majors, Junior standing. Exploration and assimilation of successful marketing techniques to secure employment in Theatre or related segments of the entertainment industry.

TPA 3601 AS-THEA 3(3,0)
Stage Management: PR: TTP 2210, TTP 3650, TPA 2211. Restricted to Theatre majors or Departmental consent. Examination of the importance, function, and responsibilities of the stage manager prior to, during and after performance. Introduction to the fundamentals of stage management, as related to Departmental productions as well as professional union requirements. Required of all B.F.A. Stage Management majors.

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.

TPA 4295 AS-THEA 1(0,20)
Theatre Production/Performance V: PR: TPA 4294. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

TPA 4296 AS-THEA 1(0,20)

TPA 4297 AS-THEA 1(0,20)

TPA 4298 AS-THEA 1(0,20)

TPA 4400 AS-THEA 3(3,0)
Theatre Management: PR: TPA 2211, TPA 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 2(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 3043C, TPA 3044C, or C.I.

TPA 5062C AS-THEA 3(2,2)
Scene Design Studio: PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre.

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-2D for Theatre: PR: Admission into the MFA Design Program. Two-Dimensional computer drafting and editing techniques applicable to theatre design.

TPA 5299C AS-THEA 3(2,2)
AutoCad-3D for Theatre: PR: Admission into the graduate program and TPA 5258C. Three-dimensional computer drafting and editing techniques applicable for theatre design.

TPA 5405 AS-THEA 3(3,0)
Theatre Management for Non-Majors: PR: THE 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 man-

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Participation in UCF Theatre productions. Required of all B.F.A. theatre majors, but requires departmental consent.

TPP 1312C AS-THEA 3(2,15) Workshop Studio Theatre: PR: TPP 3172C, TPP 2191, TPP 3310C, TPP 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 2170C AS-THEA 3(2,2) Acting II - Fundamentals: PR: TPP 2110, DAA 2200C, TPP 3650 or THE 3303, THE 2020 or THE 2000, TPP 2710C or MUT 1004, BFA Theatre Performance/Musical Theatre majors. The basic techniques of acting, with emphasis on characterization and character development.

TPP 2185 AS-THEA 3(3,0) Acting for Non-majors: Basic introduction to the fundamentals of acting with emphasis upon the development of imagination, self-awareness, sense, memory, improvisation, and the ability to execute basic stage tasks.


TPP 2260 AS-FILM 3(3,0) Acting for Film: PR: Film Majors. An introduction to acting for the camera.


TPP 3197 AS-THEA 3(0,30) Summer Theatre/Performance: PR: Open to non-Theatre majors with departmental consent. Production assignments and responsibilities during the rehearsals/performances of plays scripts produced on the UCF mainstage. May be repeated for credit.

TPP 3223 AS-THEA 3(3,0) Theatre Careers for Performance: PR: B.F.A. Theatre major. Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry.

TPP 3241 AS-THEA 3(3,0) Survey of Musical Theatre: PR: Theatre majors or departmental consent, TPP 3650, THE 2020 or THE 2000, THE 3110, TPP 3257. The origin and development of musical theatre up to and including the work of Frank Loesser.


TPP 3252 AS-THEA 3(3,0) Musical Theatre Acting Performance II: PR: Theatre majors or departmental consent, TPP 3250, TPP 3257. Continuation of acting techniques for the performance of musical theatre repertoire. Covers Rogers and Hammerstein through Sondheim and Hamanick.

TPP 3257 AS-THEA 2(2,1) Musical Theatre Voice I: PR: TPP 2710C. The vocal technique and repertoire knowledge necessary for a career on the musical theatre stage, emphasizing breath control, diction, tone production, the stage belt voice and proper resonance. May be repeated for credit.

TPP 3258 AS-THEA 2(2,2) Musical Theatre Voice II: PR: TPP 3257. Provides theatre students with the vocal technique and knowledge of repertoire necessary for a career on the musical theatre stage. May be repeated for credit.

TPP 3310C AS-THEA 2(2,3) Directing I: PR: THE 3110 and THE 3306, or TPP 3241 and TPP 4242. Junior standing. Theatre majors. Principles and techniques of play direction to include script selection, directorial analysis, casting, composition/picturization, blocking, tempo, and rehearsal planning.

TPP 3510C AS-THEA 2(2,1) Movement for the Actor: PR: DAA 2200C, DAA 2201C, TPP 2110, TPP 2170C, BFA Performance Major. Active physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body.


TPP 3650 AS-THEA 3(3,0) Script Analysis: PR: Restricted to B.F.A. Theatre majors. Exploration of dramatic form and structure by learning to read, analyze, and understand playscripts for productions. The study of the playscript as a blueprint for production. Required of all B.F.A. Theatre majors.

TPP 3711C AS-THEA 2(2,1) Voice Production II: PR: TPP 2110, TPP 2207C, DAA 2200C and TPP 3650 or THE 3303, BFA performance major. Continuation of Voice Production I; correct speech on the stage, intensified study of phonetics.


TPP 3730C AS-THEA 2(2,1) Voice Production IV: PR: TPP 3712C, or TPP 4142C or TPP 3258. BFA performance/musical theatre major. Continuation of Voice Production III; the analysis and sounds of foreign dialects and regional accents; study of stage role 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. Participation in UCF Theatre productions. Required of all B.F.A. theatre performance majors.


TPP 4221 AS-THEA 3(3,0) Auditioning: PR: Sr. standing in BFA performance or musical theatre. Selecting monologues, auditioning techniques and cold readings.

TPP 4242 AS-THEA 3(3,0) Survey of Musical Theatre II: PR: Theatre majors or departmental consent, TPP 3258, TPP 3241. A continuation of Survey of Musical Theatre I from Leonard Bernstein to current styles.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPP 4253</td>
<td>AS-THEA Musical Theatre Acting Performance III</td>
<td>3(3,0)</td>
<td>PR: Theatre majors or departmental consent, TPP 3252, TPP 3258. Advanced work in characterization and the audition process. Covers repertoire from Sorkin and Harnick through current styles of musical theatre.</td>
</tr>
<tr>
<td>TPP 4254</td>
<td>AS-THEA Musical Theatre Acting Performance IV</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>TPP 4255</td>
<td>AS-THEA Musical Theatre Cabaret</td>
<td>3(3,1)</td>
<td>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/theatre genre.</td>
</tr>
<tr>
<td>TPP 4259C</td>
<td>AS-THEA Musical Theatre Voice III</td>
<td>2(2,2)</td>
<td>PR: Theatre majors or departmental consent, and TPP 3258. The diagnosis and development of the singing voice and its application to musical theatre performance.</td>
</tr>
<tr>
<td>TPP 4265C</td>
<td>AS-THEA Acting VI - Acting for TV/Film</td>
<td>3(3,2)</td>
<td>PR: TPP 4140C, TPP 4142C, TPP 4851C, TPP 5726C. 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.</td>
</tr>
<tr>
<td>TPP 4268</td>
<td>AS-THEA Acting VII Advanced Acting for TV/Film</td>
<td>3(3,2)</td>
<td>PR: TPP 4265C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project.</td>
</tr>
<tr>
<td>TPP 4531C</td>
<td>AS-THEA Period Movement</td>
<td>2(2,1)</td>
<td>PR: TPP 4142C or TPP 3250, TPP 3512C or DAA 2571C, BFA performance/musical theatre major. Continuation of Movement/Dance work. Emphasis given to period movement styles and dance.</td>
</tr>
<tr>
<td>TPP 4923C</td>
<td>AS-THEA Musical Theatre Voice IV</td>
<td>2(2,2)</td>
<td>PR: Theatre majors or departmental consent, TPP 4259C. Continuation of the diagnosis and development of the singing voice and its application to musical theatre performance.</td>
</tr>
<tr>
<td>TPP 4940</td>
<td>AS-THEA Theatre Performance Internship</td>
<td>6(0,40)</td>
<td>PR: Restricted to B.F.A. Theatre performance 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. Required of all B.F.A. theatre performance majors.</td>
</tr>
<tr>
<td>TPP 5125C</td>
<td>AS-THEA Improvisation Studio</td>
<td>2(2,2)</td>
<td>PR: Acting for Youth Theatre. A study of impromptu, dramatic play and theatre exercises designed to develop self-discipline, creative freedom and resources for the stage and classroom.</td>
</tr>
<tr>
<td>TPP 5156C</td>
<td>AS-THEA Acting Studio</td>
<td>2(2,2)</td>
<td>PR: Admission to MFA Performance Program. An advanced scene study course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays.</td>
</tr>
<tr>
<td>TPP 5157C</td>
<td>AS-THEA Acting Studio I</td>
<td>3(2,2)</td>
<td>PR: TPP 5150C or C.I. An advanced scene study course applying acting methodologies to the works of modern (1850-) European playwrights with emphasis on the works of Ibsen/Cherkov/Shaw.</td>
</tr>
<tr>
<td>TPP 5273</td>
<td>AS-THEA Musical Theatre Acting</td>
<td>3(0)</td>
<td>PR: Admission to MFA Musical Theatre Majors. Integrated study in musical theatre acting, singing and movement applied to musical theatre performance, direction and choreography; emphasizing developing skills in textual and musical interpretation.</td>
</tr>
<tr>
<td>TPP 5289C</td>
<td>AS-THEA Acting for Young Audiences</td>
<td>2(2,2)</td>
<td>PR: Admission to MFA graduate program or C.I. A guided investigation of the principles and techniques of acting for young audiences.</td>
</tr>
<tr>
<td>TPP 5386</td>
<td>AS-THEA Directing for Young Audiences</td>
<td>3(0)</td>
<td>PR: Admission to MFA graduate program or C.I. A guided investigation of the principles and techniques of acting for young audiences.</td>
</tr>
<tr>
<td>TPP 5515</td>
<td>AS-THEA Movement Study I</td>
<td>2(2,0)</td>
<td>PR: Admission to MFA Performance Program. Graduate level course in principles and methods of movement for the stage focusing on relaxation, centering, increased physical control, and physical development of a character.</td>
</tr>
<tr>
<td>TPP 5516C</td>
<td>AS-THEA Movement Study II</td>
<td>2(2,1)</td>
<td>PR: TPP 5515 or C.I. Principles and methods of movement for the stage focusing on specific knowledge and skills in period styles of movement and basic unamed combat.</td>
</tr>
<tr>
<td>TPP 5554C</td>
<td>AS-THEA Musical Theatre Dance I</td>
<td>2(2,4)</td>
<td>PR: TPP 5548C. Advanced study with particular emphasis on the development of principles of alignment, coordination, isolation, and sequencing.</td>
</tr>
<tr>
<td>TPP 5555C</td>
<td>AS-THEA Musical Theatre Dance II</td>
<td>2(2,4)</td>
<td>PR: TPP 5554C. Advanced dance study with particular emphasis on the development and expression of characterization in dance.</td>
</tr>
<tr>
<td>TPP 5715C</td>
<td>AS-THEA Stage Voice I</td>
<td>2(2,1)</td>
<td>PR: Admission to MFA performance program. An introduction to a class examining the fundamentals of speaking on stage: the correct production of sound, breathing, relaxation of physical tension, and articulation.</td>
</tr>
<tr>
<td>TPP 5716C</td>
<td>AS-THEA Stage Voice II</td>
<td>2(2,1)</td>
<td>PR: Admission to the MFA Performance Program and TPP 5715C or C.I. Continuation of Graduate Voice Production I, studying Skinner’s narrow transcription with consonants, review of all Linklater work, and introduction to the work of Arthur Lessac.</td>
</tr>
<tr>
<td>TPP 5754</td>
<td>AS-THEA Musical Theatre Voice I</td>
<td>2(2,0)</td>
<td>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.</td>
</tr>
<tr>
<td>TPP 5885C</td>
<td>AS-THEA Puppetry</td>
<td>2(2,2)</td>
<td>PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance.</td>
</tr>
<tr>
<td>TPP 5935C</td>
<td>AS-THEA Contemporary Practices in Youth Theatre</td>
<td>2(2,2)</td>
<td>PR: Admission to MFA graduate program or C.I. Investigation of a particular subject in youth theatre. May be repeated for credit 4 times.</td>
</tr>
<tr>
<td>TSL 4080</td>
<td>ED-TLP Theory and Practice of Teaching ESOL</td>
<td>3(3,0)</td>
<td>PR: Junior standing or C.I. Focuses on methods of teaching English to Speakers of Other Languages (ESOL), ESOL curriculum and materials, cross-cultural understanding, applied linguistics in second language teaching, and test and evaluation of ESOL.</td>
</tr>
<tr>
<td>TSL 4141</td>
<td>AS-LANG Issues in Second Language Acquisition</td>
<td>3(3,0)</td>
<td>PR: TSL 4080, English phonology, morphology, syntax, and semantics, for future teachers.</td>
</tr>
<tr>
<td>TSL 5143</td>
<td>AS-LANG ESOL Strategies</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>TSL 5245</td>
<td>AS-LANG Computers and Technology for ESOL</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>TSL 5345</td>
<td>ED-TLP Methods of ESOL Teaching</td>
<td>3(3,0)</td>
<td>PR: Admission to MFA graduate program or C.I. This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL.</td>
</tr>
<tr>
<td>TSL 5376</td>
<td>AS-LANG Reading and writing in a second language</td>
<td>3(3,0)</td>
<td>PR: Graduate standing or C.I. Theoretical and pedagogical approaches to ESOL reading and writing.</td>
</tr>
<tr>
<td>TSL 5525</td>
<td>ED-TLP ESOL Cultural Diversity</td>
<td>3(3,0)</td>
<td>PR: Admission to MFA graduate program or C.I. Focuses on methods of teaching English to Speakers of Other Languages (ESOL), ESOL curriculum and materials, cross-cultural understanding, applied linguistics in second language teaching, and test and evaluation of ESOL.</td>
</tr>
<tr>
<td>TSL 5940</td>
<td>AS-LANG Issues in TEFL</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>TTE 4004</td>
<td>ECS-CEE Transportation Engineering</td>
<td>4(4,0)</td>
<td>PR: EGN 3613 and STA 3032. Investigation of highway, rail, water, and transportation systems. Systems approach to planning, design, construction, operation and administration of transportation networks.</td>
</tr>
<tr>
<td>TTE 4601C</td>
<td>ECS-CEE Urban Systems Design</td>
<td>3(2,2)</td>
<td>PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies.</td>
</tr>
<tr>
<td>TTE 5204</td>
<td>ECS-CEE Traffic Engineering</td>
<td>3(3,0)</td>
<td>PR: TTE 4004. Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings.</td>
</tr>
<tr>
<td>TTE 5700</td>
<td>ECS-CEE Railroad Engineering</td>
<td>3(3,0)</td>
<td>PR: TTE 4004 and C.I. The major technical factors in location, construction, maintenance, and operation of railroad transportation systems.</td>
</tr>
</tbody>
</table>
| TTE 5805   | ECS-CEE Geometric Design of Transportation Systems | 3(3,0) | PR: TTE 4004. Study of geometric and construction design ele-
ments in the engineering of transportation systems.

TTE 5835        ECS-CEE 3(3,0)  
Pavement Design: PR: CEG 4101C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy.

VIC 3001        AS-R/TV 3(3,0)  
Visual Communication: A study of the visual system of man and the influences of the visual media on modern society.

VIC 4004        AS-DIG 3(3,0)  

WOH 2012        AS-HIST 3(3,0)  
World Civilization I: A topical approach to the study of the rise and decline of world civilizations from the first attempts to the great civilizations of medieval times.

WOH 2012H       AS-HIST 3(3,0)  
World Civilization I - Honors: PR: Permission of Honors. The rise and decline of world civilizations from antiquity to the great civilizations of medieval times. Honors content.

WOH 2022        AS-HIST 3(3,0)  
World Civilization II: Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization.

WOH 2022H       AS-HIST 3(3,0)  
World Civilization II - Honors: PR: Permission of Honors. Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization. Honors content.

WST 3015        AS-WOM 3(3,0)  
Introduction to Women's Studies: PR: ENC 1102 or C.I. Interdisciplinary course introducing students to key issues and problems regarding women and gender relations in past and present societies.

WST 3460        AS-WOM 3(3,0)  
Womanist Studies: PR: ENC 1102 or C.I. Focus on various disciplines producing scholarship promoting a womanist of color perspective.

WST 3500        AS-WOM 3(3,0)  
Gender Issues and Community Activism: PR: WST 3015 or C.I. Feminist perspectives applied to current community issues. Interdisciplinary analysis through service learning and field research. Issues will vary. May be repeated for credit.

WST 4002        AS-WOM 1(1,0)  
Researching Women and Gender: PR: WST 3015 or C.I. Introduces students to scholars and research in a variety of areas pertaining to the study of women and gender relations.

WST 5347        AS-WOM 3(3,0)  
Research Seminar in Gender Studies: PR: Graduate status or senior standing, or C.I. Research seminar exploring relationships among feminist theorizing, research, and social change, the development of gender studies programs and their relationships to other academic disciplines.

WST 5601        AS-WOM 3(3,0)  
Theories in Gender Studies: PR: Graduate status or senior standing, or C.I. Introduction to foundational scholarship in gender studies. Emphasis on theoretical and interdisciplinary approaches to gender and sexuality in contemporary scholarship.

ZOO 3701C       HPA-M&M 2(1,2)  
Dissection Techniques: PR: ZOO 3733. A course designed to focus on select dissection techniques to aid students in the preparation of three-dimensional presentation material (specimens).

ZOO 3713C       AS-BIOL 5(3,6)  
Comparative Vertebrate Anatomy: PR: BSC 2010C and BSC 2011C, or C.I. The vertebrate animals, relationships of organs and systems, and their phylogenetic significance.

ZOO 3733C       HPA-M&M 4(3,3)  
Human Anatomy: PR: BSC 2010C or equivalent. Structure of the human body.

ZOO 3736C       HPA-M&M 4(3,2)  
Exercise Physiology Anatomy: PR: BSC 2010C, CI. Gross anatomy for exercise physiology majors.

ZOO 4205C       AS-BIOL 4(3,3)  

ZOO 4310C       AS-BIOL 4(2,6)  
Vertebrate Evolution & Ecology: PR: BSC 2010C, BSC 2011C, PCB 3034 or C.I. Vertebrate evolution and ecology, based on the paleontological and ecological literature. The laboratory places heavy emphasis on classification/identification and field work.

ZOO 4513C       AS-BIOL 3(3,0)  
Animal Behavior: PR: PCB 3034. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations.

ZOO 4603C       AS-BIOL 5(3,4)  
Embryology/Development: PR: PCB 3063 and PCB 3023 or PCB 3523 or C.I. Concepts of developmental processes. Emphasis on mechanisms underlying vertebrate development.

ZOO 4744        HPA-M&M 3(3,0)  
Neurobiology: PR: BSC 2010. Biological principles governing the physiology of the nervous system including electrical properties, chemical signaling, cellular composition, development, injury and regeneration.

ZOO 4753C       HPA-M&M 4(3,3)  
Vertebrate Histology: PR: ZOO 3733C. Microanatomical detail plus appropriate developmental and functional considerations of major cell types, primary tissues, organs, and organ systems. Survey of modern animal-tissue microtechnique.

ZOO 5456C       AS-BIOL 4(2,6)  
Ichthyology: PR: ZOO 4310C, and graduate status or senior standing or C.I. Introduction to the biology of the fishes, their classification, evolution, and life histories.

ZOO 5463C       AS-BIOL 4(2,6)  
Herpetology: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories.

ZOO 5475C       AS-BIOL 4(2,6)  
Ornithology: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of birds, their classification, evolution, and life histories.

ZOO 5486C       AS-BIOL 4(2,6)  
Mammalogy: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of mammals, their classification, evolution, and life histories.

ZOO 5517        AS-BIOL 1(1,0)  
Methods for Studying Animal Behavior in Zoo Setting: PR: an animal behavior course, graduate status or senior standing, or C.I. Research techniques used to study animals in captivity.

ZOO 5745C       HPA-M&M 4(3,3)  
Essentials of Neuroanatomy: PR: Human/Comparative Anatomy, or Human/Animal Physiology or C.I. Fundamental concepts of both morphological and functional organization of the nervous system. Primary emphasis on human structure.

ZOO 5815        AS-BIOL 4(4,0)  
Zoogeography: PR: 8 hours of zoology, and graduate status or senior standing or C.I. Principles and concepts concerning regional patterns of animal distributions of the world, both past and present.

ZOO 5881C       AS-BIOL 4(3,4)  
Fisheries Management: PR: ZOO 4310C, graduate status or senior standing, or C.I. Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates.

ZOO 5891        AS-BIOL 1(1,0)  
Applied Conservation Biology: PR: Graduate status or senior standing or C.I. Examination of issues surrounding care, maintenance and tracking animals in small populations.

ZOO 5893L       AS-BIOL 1(1,0)  
Reproductive Management in Zoological Environments: PR: PCB 4722, graduate status or senior standing, or C.I. Laboratory techniques used to improve reproductive success of animals in a zoological environment.
of Chemistry (1969), B.S., Ph.D. (Louisiana State University)
CODDINGTON, NICHOLAS E. MAJ., Assistant Professor of Business Administration, B.S. (United States Military Academy), M.S. (Saint Martin’s College), M.S.S. (Joint Military Intelligence College)
COFFEE, KEVIN, Assistant Professor of Engineering (2002), B.S., B.A., M.S., Ph.D (MIT)
COLBY, PETER W., Professor of Public Administration (1985), B.A., Ph.D. (Brandeis University)
COLDING, LINDA K., Assistant University Librarian (1999), B.A., M.A., M.S.I.S. (Catholic University of America)
COLE, W. SCOTT, General Counsel (2002), B.S., J.D. (University of Florida)
COLLEY, CLIFFORD, Captain, USAF, Assistant Professor of Aerospace Studies (2000), B.S., M.S. (Troy State University)
COLINS, STEVEN, Assistant Professor of Communications (2003), B.A., M.A., Ph.D. (Syracuse University)
COMPSON, JANE, Instructor of Humanities, Philosophy, and Religion (2003), B.A., M.A. Ph.D (University of Bristol)
CONDY, STEVEN J., Assistant Professor of Education (1989), B.A., M.Ed., Ph.D. (University of Oregon)
CONNNELL, PATRICIA, Instructor of Nursing (Brevard) (1999), M.S., B.S.N., R.N. (University of Florida)
CONWAY, TED, Associate Professor of Engineering (1999), B.S., M.S., Ph.D. (Illinois at Urbana-Champaign)
COOK, CLAYTON B., Professor of Biology (2002) (Dalke, Genetics, and Biotechnology Center, University of Florida)
COOK, IAD J., Associate Professor of Sociology (1976), B.A., M.S., Ph.D. (North Carolina State University)
COOK, KATHY S., Associate Coordinator and Instructor of Legal Studies (1983), B.A., J.D. (University of Florida)
COPP, LISA, Visiting Lecturer of Film (1979), B.A. (Rutgers University)
COOPER, C. DAVID, Professor of Engineering (1980), B.S., M.S., Ph.D. (Clemson University), P.E. (Florida, Texas)
COOVAR, ROSIDA, Associate Professor of Engineering Technology (1992), Dipl. Eng., M.S.E.E., Ph.D. (University of Central Florida)
CORNETT, JEFFREY W., Chair and Professor of Education (1969), B.S., M. Ed., Ph.D. (Ohio State University)
CORNETT, VICKI, Instructor of Education (1987), B.S., Ed.M. (University of Texas)
COREIRA, EDA M., Assistant University Librarian (1999), B.A., M.L.S. (University of Puerto Rico)
CORZINE, JAY, Chair and Professor of Sociology (1960), B.A., M.A., Ph.D. (Washington University)
COSTAIN, RAYMOND E., Assistant Professor of Communication (2001), B.A., M.A. (York University)
COURTNEY, JAMES F., Professor of Management Information Systems (2000), B.A., M.A., Ph.D. (University of Texas at Austin)
COWELLI, MAUREEN M., Assistant Professor, School of Nursing (1989), R.N., Ph.D., University of Florida
COVERSTON, HARRY S., Visiting Instructor of Humanities (2003), B.A., J.D., Div. Ph.D (Florida State University)
CRAWFORD, PATRICIA, Associate Professor of Hospitality Management (2002), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)
CROYER, RICHARD C., Professor of History (1972), B.S., M.A., Ph.D. (Florida State University)
CRONES, ROBERTICO, Associate Professor of Hospitality Management (2002), B.A., M.A., Ph.D. (University of Wisconsin)
CRUMPON-YOUNG, LESIA, Chair, Professor of Engineering (2002), B.S., M.S., Ph.D. (Taxes, A & M University)
CUNNINGHAM, GLENN N., Chair and Professor of Chemistry (1969), B.S., M.S., Ph.D. (North Carolina State University)
CURIAS, PAUL, Research Associate (1973), B.A. (Florida State University)
CUTCHINS, CONSTANCE E., Instructor in Statistics (1965), B.A., M.A. (Pennsylvania State University)
CUTLER, JUDY, Assistant Professor (2000), B.A., M.A., Ph.D. (State University of New York)
DA VITORIA LOBO, NIELS, Instructor of Computer Science; Holder of the Charles N. Millican Chair in Computer Science (1996), B.Sc., M.Sc., Ph.D. (Northwestern University)
DAS, SAMAR, Associate Professor of Anthropology (1999), B.A., M.A., Ph.D. (University of North Texas)
DILLARD, JESSE F., Assistant Professor of Aerospace Administration (1985), B.A., Ph.D. (University of Alabama)
DING, GEORGE, Laureyn, Assistant Professor of Management (1998), B.S., M.B.A. (University of North Carolina at Chapel Hill)
DINKNERD, SAMABTIO, Instructor of Religion, Philosophy, and Humanities (2001), B.A., M.A., MPhil, Ph.D. (University of Florida)
DICKIE, MARK T., Professor of Economics (2001), B.A., Ph.D. (University of Wisconsin)
DICKSON, DUNCAN, Assistant Professor of Hospitality Management (2001), B.A., M.P.S. (Cornell University)
DIOVO, EDUARDO, Assistant Professor of Engineering Technology (2003), B.S., M.S., Ph.D. (University of Central Florida)
DIXON, GEORGE J., Assistant Professor of Engineering (1989), B.S., B.S., M.S., Ph.D. (University of South Florida)
DIXON, JULI, Associate Professor of Education (2000), B.A., M.S. Ph.D. (University of Florida)
DOLAN, CHAEL L., Assistant Professor (2002), B.A., M.A., Ph.D. (University of South Carolina)
DOMBROWSKI, JUDITH, Visiting Instructor of Communications (1998), B.A., M.E.D. (The Pennsylvania State University)
DONEGAN, HELEN, Vice President for Community Relations (1996), B.A. (San Jose State University)
DORNER, JOYCE E., Executive Associate Dean, College of Health and Public Affairs and Associate Professor of Nursing (1989), R.N., M.S.N. (University of Florida)
DOUGLASS, SHARON E., Associate Professor of Health Sciences (1980), B.S., B.S.N. (University of New York at Buffalo)
DOW, KAREN HAYSE, Associate Professor of Nursing (1995), B.S.N., M.S.N., Ph.D. (University of Central Florida)
DREILING, DENNIS, Jr., Instructor of Communicative Disorders (1989), B.S. M.S. (Texas Tech University)
DREISER, SHERI, Director, Center for Cooperative Education and Applied Learning (1982), B.A., M.S.W. Ph.D. (University of Florida)
DUBEY, ARCHANA, Instructor (2002), Ph.D. (Florida Atlantic University)
DUCHARME, ALFRED, Assistant Professor of Engineering Technology (2003), B.S., M.S., Ph.D. (University of Central Florida)
DUKE, JEFF, Visiting Instructor of Education (2002), B.S., M.S. (Florida State University)
DULINAK, DENNIS J., University Registrar (1999), B.S., M.E.D. (Montana State University)
DUNLAP, PYLE, LORI L., Visiting Instructor of Mathematics (1999), B.A., M.S. (University of Central Florida)
DUNN, MICHAEL E., Associate Professor of Psychology (1996), B.S., Ph.D. (University of South Florida)
DUNN, STACEY T., Associate Professor of Psychology (1996), B.A., Ph.D. (University of South Florida)
DURRANCE, SAMUEL T., Associate Professor of Engineering (1999), B.S., M.S., Ph.D. (University of Colorado)
DUTTON, RONALD D., Associate Chair and Professor of Creative School for Children (1982), B.S. (Ashland University)
DUVAL, RICK, Assistant Professor of Education (2001), B.A., M.Ed., Ph.D.
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KIRBY, PAMELA, Assistant Dean and
Instigator of Legacies (2000), B.A., M.A., J.D. (University of Virginia)
KIRKPATRICK, LEE ANNE, Director, Office of Academic Support and Information Service (1993), B.A., M.S. (University of Central Florida)
KRIVEN, JOSHUA, Assistant Professor, School of Social Work (1999), B.S., M.S.W., Ph.D. (Ohio State University)
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KLEIN, COLLEEN, Visiting Assistant Professor of Education (1997), Ph.D. (University of Southern Mississippi)
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KOGER, PHILIP C., Visiting Assistant Professor of Education (1999), B.A., M.A.T., Ed.S., Ed.D. (University of South Carolina)
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KOONS, KEITH, Associate Professor of Music (1990), B.M., M.M., D.M.A. (University of Southern California)
KOROSY, ALICE A., Instructor of Foreign Languages and Literatures (1996), B.A., M.A. (Florida State University)
KOTNOUR, TIMOTHY G., Assistant Professor of Engineering (1995), B.S., M.S., Ph.D. (Virginia Polytechnic Institute and State University, El (Illinois Institute of Technology)
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KUJAWA, FRANK B., Associate Professor of Geology (1969), B.A., Ph.D. (John Hopkins University)
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KYSILKA, MARCELLA L., Professor of Education of Education (1969), B.S.Ed., M.Ed., Ph.D. (University of Texas)
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LAMAZARES, IVOINE, Associate Professor of English (2001), B.A., M.A., Ed.D. (University of Miami, FL)
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MAY, JONATHAN, Faculty Associate in Music (2002), (University of Washington)
McHALE, MICHAEL, Clinical Faculty, School of Nursing (2002), (Philadelphia College of Osteopathic Medicine)
McKENNA, MAUREEN, Visiting Instructor, Art (University of Delaware)
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MELLEN, JILL, Research Assistant Professor, Biology (1999), B.S., M.S., Ph.D. (University of California, Davis)
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NORMAN, ELAINE M., Professor of Biology (1999), B.A., M.A., Ph.D. (Cornell University)
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PRITCHARD, PETER C. H., Professor of Biology (1994), B.A., M.A., Ph.D. (University of Florida)
PRITCHARD, ROBERT D., Professor, Management and Psychology (2003), Ph.D. (University of Minnesota)
RAMANLAL, PRADIPKUMAR, Associate Professor, Latin American Area Studies and Finance (2003), Ph.D. (University of Michigan)
REA, LORRIE, Assistant Professor, Biology (2002), (University of Alaska)
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SINGH, SHARI, Clinical Faculty, Health Science
SINGH, JAMES, Faculties, Associate Professor, Biology B.A., M.S., Ph.D. (University of Maryland)
STAMP, MICHAEL, Research Assistant Professor, Biology, Ph.D. (Purdue University)
STERN, JONATHAN S, Assistant Professor, Biology (2002), Ph.D. (Texas A&M)
STEVENS, ELIZABETH FRANKE, Research Assistant Professor, Biology (1999), B.S., Ph.D. (University of North Carolina, Chapel Hill)
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STONE, DIANNA L., Professor of Psychology and Management (2003), B.A., Ph.D. (Purdue University)
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TILSTONE, WILLIAM, Professor, Chemistry
TING, ROBERT Y., Professor of Chemistry and Research Professor of Mechanical Engineering (1997), B.S., M.S., Ph.D. (University of California, La Jolla)
VALDES, EDUARDO V., Associate Research Professor, Biology (2002), (University of Georgia)
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WALSH, MICHAEL T., Research Professor, Biology (2002), (University of Missouri)
WAN, THOMAS, Professor, Health Professions and Public Affairs, (2003), Ph.D. (University of Georgia)
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WHISLER, MARLYN W., Associate Professor in Political Science B.A., M.A., Ph.D. (University of Wisconsin)
WHITCOMB, CARRIE, Professor of Forensic Science (1999), B.S., M.S.F.S. (George Washington University)
WITHINGTON, BLAIR ERNEST, Research Assistant Professor, Biology (1999), B.S., M.S., Ph.D. (University of Florida)
WING, NELSON, Faculty Associate, Physics
YOUNG, DENISE, Assistant Professor, Social Work (1990), Ph.D. (University of Michigan)
ZARDA, P. RICHARD, Research Professor of Mechanical Engineering B.A., B.S., M.S., Ph.D. (Columbia University)
ZELDOVICH, BORIS, Professor of Optics (1994), B.S.C., M.Sc., D.Sc. (Lbedev Physics Institute)
ZHAO, JIM JIANG, Assistant Professor, Chemistry
ZIGLAR, MICHELE K., Assistant Professor, School of Nursing (2002)
HONORARY DEGREES AWARDED

December, 1969  Kurt H. Debus, Doctor of Engineering Science
William H. Dial, Doctor of Commercial Science

June, 1970  John W. Young, Doctor of Applied Sciences
Louis C. Murray, Doctor of Public Service

March, 1971  Lee R. Scherer, Doctor of Engineering Science

August, 1974  Fred C. Clayton, Doctor of Professional Engineering

August, 1978  Richard F. Livingston, Doctor of Business Administration
Albert F. Hegenerberger, Doctor of Engineering Science

December, 1979  Joseph Daniel Duffey, Doctor of Humane Letters

June, 1980  Thelma Vivian Jackson Dudley, Doctor of Humanities
Howard Phillips, Doctor of Public Service

December, 1981  Gene Burns, Master of Letters

April, 1982  Robert J. Whalen, Doctor of Engineering Science
Andrew Duda, Jr., Doctor of Agricultural Service
Ferdinand Duda, Doctor of Agricultural Service
John Duda, Doctor of Agricultural Service
Mary Jo Davis, Doctor of Public Service

July, 1982  William E. Davis, Doctor of Public Service

December, 1982  Joseph A. Boyd, Doctor of Engineering Science

July, 1983  J.W. Hubler, Doctor of Engineering Science
Charles Wadsworth, Doctor of Public Service

December, 1984  Allen E. Gotlieb, Doctor of Laws

May, 1985  George J. Becker, Jr., Doctor of Public Service
Jerry Collins, Doctor of Public Service
D. Robert Graham, Doctor of Public Service
Walter O. Lowrie, Doctor of Engineering Science
William C. Schwartz, Doctor of Engineering Science

March, 1986  Isaac Bashevis Singer, Doctor of Letters

October, 1988  Ellie Wiesel, Doctor of Letters

October, 1988  Sven Caspersen, Doctor of Engineering Science

John D. Holloway, Doctor of Public Service
Willam E. Davis, Doctor of Public Service
John Duda, Doctor of Agricultural Service

HONORARY DEGREES AWARDED

May, 1989  Frank M. Hubbard, Doctor of Public Service
David Albertson, Doctor of Humane Letters

William S. Jenkins, Doctor of Humane Letters

John G. Robinson, Doctor of Public Service

Charles N. Millican, Doctor of Laws
Helen Harris Perlman, Doctor of Humane Letters

Thaddeus Seymour, Doctor of Letters

Robert Bryan, Doctor of Humane Letters

August, 1990  Buell G. Duncan, Jr., Doctor of Public Service

Norman R. Augustine, Doctor of Engineering Science


Trevor Colbourn, Doctor of Humane Letters

Linda W. Chapin, Doctor of Public Service

Desmond Tuto, Doctor of Humane Letters

Oscar Arias, Doctor of Humane Letters

Reubin O'D. Askew, Doctor of Public Service

Lofti Zadeh, Doctor of Science

November, 1992  Joseph M. Karp, Doctor of Science

LeRoy T. Walker, Sr., Doctor of Public Service

James Bacchus, Doctor of Public Service

Nancy Burnett, Doctor of Commercial Science

Albert Burnett, Doctor of Commercial Science

Robert E. Kahn, Doctor of Science

Kevin J. Kwan

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