



## UNIVERSITY OF CENTRAL FLORIDA

UCF Stands For Opportunity

# 2006-2007 Undergraduate Catalog

**University of Central Florida**  
4000 Central Florida Parkway  
Orlando, FL 32816  
[www.ucf.edu](http://www.ucf.edu)  
407-823-2000

**UCF Rosen College of  
Hospitality Management**  
9907 Universal Boulevard  
Orlando, FL 32819  
[www.hospitality.ucf.edu](http://www.hospitality.ucf.edu)  
407-903-8000

**School of Film & Digital Media**  
EXPO Center  
500 W. Livingston Street  
Orlando, FL 32801  
[www.sfdm.ucf.edu](http://www.sfdm.ucf.edu)  
407-823-3456

---

### UCF REGIONAL CAMPUS SYSTEM

[www.regionalcampuses.ucf.edu](http://www.regionalcampuses.ucf.edu)

**UCF at Cocoa**  
(321) 433-7821  
(In partnership with Brevard  
Community College)  
1519 Clearlake Rd.  
Cocoa, FL 32922-6598

**UCF at Heathrow**  
(407) 531-5450  
(In partnership with Seminole  
Community College)  
600 Colonial Center Pkwy.  
Lake Mary, FL 32746

**UCF at Osceola**  
(407) 856-6585  
(In partnership with Valencia  
Community College)  
1800 Denn John Lane  
Bldg. 3, Rm. 318E  
Kissimmee, FL 34744

**UCF at South Lake**  
(352) 536-2113  
(In partnership with Lake-Sumter  
Community College)  
1250 N. Hancock Rd.  
Clermont, FL 34711

**UCF at Daytona Beach**  
(386) 506-4021  
(In partnership with Daytona Beach  
Community College)  
1200 W. International Speedway  
Blvd.  
Daytona Beach, FL 32114

**UCF at MetroWest**  
(407) 582-5500  
(In partnership with Valencia  
Community College)  
Bldg. 1, Rm. 130  
1800 South Kirkman Rd.  
Orlando, FL 32811

**UCF at Palm Bay**  
(321) 433-7995  
(In partnership with Brevard  
Community College)  
250 Community College Pkwy.  
Palm Bay, FL 32909-2299

**UCF at South Orlando**  
(407) 856-6585  
7300 Lake Ellenor Drive  
Orlando, FL 32809

**UCF Downtown**  
(407) 317-7700  
26 West Pine St.  
Orlando, FL 32801

**UCF at Ocala**  
(352) 854-2322, ext. 1818  
(In partnership with Central Florida  
Community College)  
3001 S.W. College Road  
Ocala, FL 34474

**UCF at Sanford/Lake Mary**  
(407) 328-2471  
(In partnership with Seminole  
Community College)  
100 Weldon Blvd., Bldg. R  
Sanford, FL 32773

---

### UNDERGRADUATE INFORMATION

**Undergraduate Admissions**  
University of Central Florida  
PO Box 160011  
Orlando, FL, 32816-0111  
[www.admissions.sdes.ucf.edu](http://www.admissions.sdes.ucf.edu)  
407-823-3000

**Student Financial  
Assistance Office**  
University of Central Florida  
PO Box 160013  
Orlando, FL 32816-0113  
<http://finaid.ucf.edu>  
407-823-2827

**Registrar's Office**  
University of Central Florida  
PO Box 160114  
Orlando, FL 32816-0114  
<http://www.registrar.ucf.edu>  
407-823-3100

**Housing and Residence  
Life Office**  
University of Central Florida  
PO Box 163222  
Orlando, FL 32816-3222  
<http://www.housing.ucf.edu>  
407-823-4663

---

**May 2006  
Volume 39, Number 1**

Additional copies of this *Undergraduate Catalog* may be purchased for \$7.00 in the University Bookstore or by mail for \$10.00 (check payable to UCF Bookstore) from: Catalog, UCF Bookstore, Orlando, Florida 32816-2444. A current *Undergraduate Catalog* is issued to each new degree-seeking student during Orientation at the time of the first registration. The succeeding edition is available for purchase each year after June 1.

Compiled and edited by the University of Central Florida Registrar's Office, Unit of Academic Development and Retention, Division of Student Development and Enrollment Services. Pre-press production & supervision by M.R.Zinssar, Assistant Director, Information and Publications, University of Central Florida Registrar's Office. New Catalog policies and requirements take effect with the Summer term.

© and ™ 2006 University of Central Florida. This publication is copyrighted by the University of Central Florida and may not be reprinted or republished in whole or in part in any fashion or any media whatsoever without the prior written consent of a duly authorized University of Central Florida official.

# The UCF Creed

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

## **Integrity**

I will practice and defend academic and personal honesty.

## **Scholarship**

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

## **Community**

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

## **Creativity**

I will use my talents to enrich the human experience.

## **Excellence**

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



**UNIVERSITY OF CENTRAL FLORIDA**

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

# UCF Stands For Opportunity



Office of the President

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 135,000 alumni.

Cordially yours,

A handwritten signature in black ink that reads 'John C. Hitt'. The signature is fluid and cursive, with a large initial 'J'.

John C. Hitt  
President

An Equal Opportunity and Affirmative Action Institution



# Table of Contents

<b>University Administration</b> .....	6	Tuition Waivers .....	37
<b>Academic Calendars</b> .....	8	Florida Residency for Tuition Purposes .....	38
<b>University Notices</b> .....	10	Residency Reclassification .....	39
Administrative Procedures Act Policy Statement .....	10	<b>Academic Advising</b> .....	40
Sexual Harassment Policy .....	10	<b>Transfer Services</b> .....	43
Drug-Free Workplace/Drug-Free Schools Policy Statement .....	10	<b>Undergraduate Degree Requirements</b> .....	46
Campus Alcoholic Beverages Policy .....	10	Requirements for Graduation .....	46
Academic Behavior Standards .....	11	Choice of Catalog and Continuous Enrollment .....	46
Student Use of Technology .....	11	General Education Program .....	46
Student Responsibility for University Communication .....	11	Diversity Requirement .....	47
Complaint Policy .....	11	Exit Exams .....	48
<b>University of Central Florida</b> .....	12	Foreign Language Proficiency Requirement .....	48
Accreditation .....	11	SUS Foreign Language Admission Requirement .....	48
The University .....	12	The Gordon Rule .....	48
Online@UCF The Virtual Campus .....	12	College Level Academic Skills Test (CLAST) .....	49
UCF Regional Campuses .....	12	Summer Attendance Requirement .....	49
Central Florida Research Park .....	15	Admission to the Upper Division .....	50
Endowed Chairs .....	15	Graduation Application Deadline .....	50
University Ombuds Office .....	16	Grad On Track (GOT) .....	50
Office of Undergraduate Studies .....	16	Correspondence Courses .....	50
International Services Center .....	16	Double Majors .....	50
UCF Public Safety and Police .....	16	Double Degree/Second Baccalaureate Degree .....	50
Information Technologies and Resources .....	17	Dual Usage of Credit Hours .....	50
Intercollegiate Athletics .....	18	<b>Academic Regulations and Procedures</b> .....	51
Graduation Rate Disclosure .....	18	Registration Policies .....	51
UCF Arena .....	18	<i>Schedule Web Guide</i> .....	51
University Bookstore .....	18	Terms and Credit Hours .....	51
Transit Services .....	18	Credit Hour Limits .....	51
Orlando - UCF Shakespeare Festival .....	18	Holds .....	51
UCF Alumni Association .....	18	Add/Drop Policy .....	51
UCF Foundation, Incorporated .....	18	Audit Registration and Senior Citizen Audit .....	51
<b>Division of Marketing, Communications, and Admissions</b> .....	19	State of Florida Employee Registration .....	51
Undergraduate Admissions .....	19	UCF Employee Registration .....	51
<b>Division of Student Development and Enrollment Services</b> .....	20	STEP (National Guard) Registration .....	51
Academic Development and Retention .....	20	State University System (SUS) Florida Transient Students .....	51
Administrative Services .....	23	Enrollment and Degree Certifications .....	52
Assessment and Planning .....	23	Withdrawal Policy .....	52
Campus Life .....	24	Grade System .....	52
<b>Undergraduate Admissions</b> .....	27	Incomplete Grade .....	53
Campus Visit Experience .....	27	Grade Change .....	53
Application for Admission .....	28	Grade Reports .....	53
Limited Access Programs .....	28	Attendance, Absences, or Unsatisfactory Work .....	53
Orientation .....	28	Classroom Responsibility .....	53
Admission Categories .....	28	Student Conduct .....	53
International Applicants .....	30	Religious Observances .....	53
Non-Academic Admission Clearances .....	31	Student Classifications .....	54
Transfer Credit .....	31	Academic Honors .....	54
Baccalaureate Honors .....	31	Grade Forgiveness .....	54
<b>Financial Information</b> .....	32	Academic Standing .....	55
<b>Student Financial Assistance</b> .....	32	Earning Credit While Disqualified or Excluded .....	55
Student Eligibility .....	32	Readmission .....	55
Application Priority Deadline Date .....	32	Academic Amnesty Program .....	57
Application Procedures .....	32	Athletic Retention and Eligibility Committee .....	57
Specific Eligibility Requirements and Conditions .....	32	Name Change .....	57
School Costs .....	33	Address and E-Mail Changes .....	57
Financial Aid Programs Available at UCF .....	33	Transcript Requests .....	57
Award Notification .....	33	Third Attempt Course Repeat Surcharges .....	57
Deferrals of Tuition and Fee .....	33	Major, Minor and Certificate Policies .....	58
Disbursements .....	34	Student Records .....	58
Satisfactory Academic Progress .....	34	Family Educational Rights and Privacy Act (FERPA) .....	58
Transfer Students .....	35	Higher Education Act .....	59
Independent Students .....	35	Accelerated Education Opportunities .....	59
Dual Enrollment .....	35	<b>Special Academic Programs and Research Institutes</b> .....	63
Over Awards .....	35	International Studies and Programs .....	63
Refund and Return of Title IV Funds .....	35	Study Abroad Programs .....	63
Professional Judgment .....	35	Experiential Learning, Undergraduate Studies .....	63
Student Rights and Responsibilities .....	35	Division of Continuing Education .....	64
<b>Student Accounts Office</b> .....	35	Institutes and Centers for Research .....	64
Late Registration Fee .....	36	<b>Academic Degrees, Majors, and Minors</b> .....	67
Late Payment Fee .....	36	Burnett College of Biomedical Science .....	69
Student Financial Responsibility Statement .....	35	<b>The Burnett Honors College</b> .....	71
Late Registration Fee and Late Payment Fee Appeals .....	35	<b>College of Arts and Humanities</b> .....	74
Schedule of Fees .....	36	<b>College of Business Administration</b> .....	79
Past-due Accounts .....	36	<b>College of Education</b> .....	83
Acceptable Forms of Payment .....	36	<b>College of Engineering and Computer Science</b> .....	87
Payment Procedures .....	36	Reserve Officer Training Corps .....	94
Refund of Fees .....	37		

# Table of Contents

<b>College of Health and Public Affairs</b> .....	96	Liberal Studies–Computer Information Technology Track .....	190
<b>College of Optics and Photonics</b> .....	100	Liberal Studies–Environmental Studies Track .....	191
<b>College of Sciences</b> .....	101	Liberal Studies–Liberal Arts Track .....	192
<b>Rosen College of Hospitality Management</b> .....	104	Liberal Studies - Nanoscience and Nanotechnology Track .....	193
<b>Office of Undergraduate Studies</b> .....	105	Liberal Studies–Women's Studies Track .....	194
<b>UCF Degree Programs</b> .....	106	Management .....	196
Accounting .....	107	Management Information Systems .....	197
Actuarial Science .....	108	Marketing .....	198
Advertising/Public Relations .....	110	Mathematics–Applied Track .....	200
Aerospace Engineering .....	111	Mathematics–Computational Track .....	201
Anthropology .....	112	Mathematics–Engineering/Physics Track .....	202
Art .....	113	Mathematics–Pure Track .....	203
Art–Animation Track .....	115	Mathematics Education .....	204
Art–History Track .....	116	Mechanical Engineering .....	205
Art–Studio Track .....	117	Medical Laboratory Sciences .....	207
Art Education .....	118	Modern Language Combination .....	208
Biology .....	119	Molecular Biology and Microbiology .....	209
Biology–Preprofessional .....	121	Molecular Biology and Microbiology, Preprofessional .....	211
Business Administration .....	124	Music .....	212
Cardiopulmonary Sciences .....	122	Music Education .....	213
Chemistry .....	125	Music Performance .....	215
Civil Engineering .....	126	Nursing .....	217
Civil Engineering–Construction Engineering Concentration .....	128	Nursing–RN to BSN Program .....	219
Communicative Sciences and Disorders .....	129	Philosophy .....	220
Computer Engineering .....	130	Photography .....	221
Computer Engineering– Software Engineering Concentration .....	132	Physical Education .....	222
Computer Science .....	133	Physics .....	224
Criminal Justice .....	134	Political Science .....	225
Digital Media .....	135	Political Science–International Studies Track .....	227
Early Childhood Education .....	136	Political Science–Prelaw Track .....	228
Economics (B.A. and B.S.B.A.) .....	138, 139	Psychology (B.A. and B.S.) .....	229, 230
Electrical Engineering .....	141	Public Administration .....	231
Electrical Engineering–Microelectronics Concentration .....	142	Radio–Television .....	233
Electrical Engineering– Wireless Communication Concentration .....	143	Radiologic Sciences .....	234
Electrical Engineering Technology– Computer Systems Concentration .....	145	Real Estate .....	235
Electrical Engineering Technology– Electrical Systems Concentration .....	146	Religious Studies .....	236
Electrical Engineering Technology– Photonics Concentration .....	147	Restaurant and Foodservices Management .....	238
Elementary Education .....	148	Science Education–Biology .....	239
Engineering Technology–Design Concentration .....	149	Science Education–Chemistry .....	240
Engineering Technology–Operations Concentration .....	150	Science Education–Physics .....	241
Engineering Technology–Space Systems Concentration .....	152	Social Sciences .....	243
English–Creative Writing .....	153	Social Science Education .....	244
English Language Arts Education .....	154	Social Work .....	245
English–Literature .....	155	Sociology .....	246
English–Technical Writing .....	157	Spanish .....	248
Environmental Engineering .....	158	Sports and Fitness .....	249
Event Management .....	159	Statistics .....	250
Exceptional Student Education .....	160	Technical Education and Industry Training .....	251
Film–B.F.A. .....	161	Theatre (B.A. and B.F.A.) .....	252, 254
Film–Cinema Studies Track .....	162	Theatre–Musical Theatre Track .....	256
Film–World Cinemas Track .....	163	<b>Minors</b> .....	258
Finance .....	164	<b>Certificates</b> .....	283
Foreign Language Education–French .....	165	<b>Study Abroad</b> .....	288
Foreign Language Education–Spanish .....	167	<b>Accelerated Undergraduate–Graduate Programs</b> .....	290
Forensic Science–Analysis Track .....	168	Economics (B.A./M.A.A.E. and B.S.B.A./M.A.A.E.) .....	291
Forensic Science–Biochemistry Track .....	169	History .....	292
French .....	171	Liberal Studies .....	294
General Business .....	171	Molecular Biology and Microbiology -UCF/USF .....	295
Health Information Management .....	172	Nursing Second Degree B.S.N. Option .....	296
Health Sciences–Athletic Training Track .....	174	<b>Articulated A.S. to B.S. Degree Programs</b> .....	299
Health Sciences - Pre-Clinical Allied Health Track .....	175	Applied Science .....	299
Health Services Administration .....	176	Criminal Justice .....	300
History .....	178	Electrical Engineering Technology .....	300
Hospitality Management .....	179	General Business .....	301
Humanities .....	180	Hospitality Management .....	302
Humanities - Philosophy, Religion and Popular Culture .....	182	Information Systems Technology .....	304
Industrial Engineering .....	183	Liberal Studies .....	305
Information Systems Technology .....	184	Nursing .....	305
Information Technology .....	185	Radiologic Sciences .....	306
Interpersonal/Organizational Communication .....	186	<b>Common Course Numbering System</b> .....	307
Journalism .....	187	<b>UCF Courses and Descriptions</b> .....	313
Legal Studies .....	188	<b>University Faculty</b> .....	413
Liberal Studies .....	189	<b>Administrative Officers and Staff</b> .....	431
		<b>Honorary Degrees Awarded</b> .....	434
		<b>UCF Glossary</b> .....	435
		<b>Index</b> .....	437

# UNIVERSITY ADMINISTRATION

## State of Florida Board of Education

Jeb Bush	Governor
Toni Jennings	Lt. Governor
John Winn	Commissioner of Education
Charlie Crist	Attorney General
Tom Gallagher	Chief Financial Officer
Glenda Hood	Secretary of State
Robert F. Milligan	Comptroller
Charles Bronson	Commissioner of Agriculture

## University of Central Florida Board of Trustees

Richard A. Nunis, Chair	Orlando
Thomas H. Yochum, Vice Chair	Orlando
Judith A. Albertson	Winter Park
Olga M. Calvet	Lake Buena Vista
Manoj Chopra, Faculty Senate Trustee	Orlando
Patrick T. Christiansen	Orlando
Alan S. Florez	Winter Park
Phyllis A. Klock	Atlanta, GA
Mark White, Student Trustee	Orlando
Harris Rosen	Orlando
Conrad X. Santiago	Orlando
Richard J. Walsh	Orlando
Al Weiss	Orlando

## Principal Officers of Administration

President	John C. Hitt
Provost and Vice President for Academic Affairs	Terry L. Hickey
Vice President and Chief of Staff	Beth Barnes
Vice President for Administration and Finance	William F. Merck II
Vice President for Community Relations	Helen Donegan
Vice President for Marketing, Communications and Admissions	Thomas Huddleston, Jr.
Vice President for Student Development and Enrollment Services	Maribeth Ehasz
Vice President for University Relations	Daniel C. Holsenbeck
Vice President for Research	M. J. Soileau
Vice President for Development and Alumni Affairs	Robert J. Holmes, Jr.

## Administration

### Office of the President

President of the University	John C. Hitt
Sr. Executive Assistant to the President	Amy J. Barnickel
Sr. Administrative Assistant to the President	Sandra M. Cherepow
General Counsel	W. Scott Cole
Director, Athletics	Steven Orsini
Vice President and Chief of Staff	Beth Barnes
Director, Diversity Initiatives	Valarie G. King
Director, EEO/AA Programs	Janet P. Balanoff
General Counsel (for Admin. Affairs)	W. Scott Cole
Executive Director, University Audit	Barbara B. Ratti
University Ombuds Officer	Vicky Brown
Vice President for Community Relations and Special Assistant to the President	Helen Donegan
Assistant Vice President and Director, Office of Community Relations	Diane Trees
Director, Constituent Relations	Glenna Oro
Director, Global Perspectives and Special Assistant to the President	John Bersia
Director, Metropolitan Center for Regional Studies	Linda Chapin

### University of Central Florida Foundation, Incorporated

Vice President for Alumni Relations and Development and Chief Executive Officer	Robert J. Holmes, Jr.
Associate Vice President for Development	Kim A. Minana
Associate Vice President for Finance and Chief Financial Officer	TBA
Associate Vice President for Alumni Relations and Executive Director of UCF Alumni Association	Thomas Messina
Assistant Vice President for Major Gifts	TBA
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 Colbourn

### 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	Alvin Wang

Vice Provost, Information Technologies and Resources	Joel L. Hartman
Vice Provost, Academic Affairs Administration	J. Edward Neighbor
Vice Provost, Regional Campuses	David Harrison
Vice Provost, Dean of Undergraduate Studies	John F. Schell
Associate Vice President, Planning and Evaluation	Denise L. Young
Assistant Vice President, Faculty Relations	Lin Huff-Corzine
Assistant Vice President and Director, Center for Distributed Learning	Steven Sorg
Assistant Vice President and Director, Continuing Education	Patrick Wagner
Assistant Vice President, Information Analysis and Assessment	Julia Pet-Armacost
Assistant Vice President, Academic Affairs Administration	Lynn J. Gonzalez
Interim Assistant Vice President, International and Interdisciplinary Studies	Diane Z. Chase
Assistant Vice President, Central Region, Regional Campuses	David J. Mealar
Assistant Vice President, Eastern Region, Regional Campuses	Bernard Jensen
Associate Vice President, Southern Region, Regional Campuses	James A. Drake
Assistant Vice President, Western Region, Regional Campuses	Cecelia H. Rivers
Director, Karen L. Smith Faculty Center for Teaching and Learning	Alison Morrison-Shetlar
Director, Center for Cooperative Education and Experiential Learning	Sheri Dressler
Director, Computer Services and Telecommunications	Robert Yancello
Director, University Libraries	Barry B. Baker
Director, Instructional Resources	Ruth Marshall
Director, Course Development and Web Services	Barbara Truman
Director, University Analysis and Planning Support	Robert L. Armacost
Director, Florida-Eastern European Linkage Institute and Florida-Canada Linkage Institute	Jean Kijak
Director, Research Initiative for Teaching Effectiveness	Charles Dziuban
Director and University Data Administrator, Institutional Research	Paige Borden

### Office of Undergraduate Studies

Vice Provost and Dean, Undergraduate Studies	John F. Schell
Associate Dean, Undergraduate Studies	David Dees

### Office of the Vice Provost and Dean of Graduate Studies

Vice Provost, 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 R. Jones
Associate Director, Academic Programs and Completion	Joanne Muratori
Associate Director, Financial Assistance	Debra Y. Winter

### Office of the Vice President for Marketing, Communications and Admissions

Vice President for Marketing, Communications and Admissions	Thomas Huddleston, Jr.
Assistant Vice President, University Marketing	Terrence K. Helms
Assistant Vice President for Undergraduate Admissions, Student Financial Assistance and Student Outreach Programs	Gordon D. Chavis, Jr.
Executive Director, Student Financial Assistance	Mary H. McKinney
Director, Student Outreach Programs	Rhonda C. Hall
Assistant Vice President for News and Information	Linda Gray
Director, Administrative Services	Richard S. Payne

### Office of the Vice President for Student Development and Enrollment Services

Vice President for Student Development and Enrollment Services	Maribeth Ehasz
Associate Vice President for Campus Life	Craig E. Ullom
Associate Vice President for Academic Development and Retention	Mark Allen Poisel
Associate Vice President for Administrative Services	Sharon L. Ekern
Assistant Vice President for Campus Life and Director, Student Rights and Responsibilities and Student Legal Services	Patricia A. MacKown
Assistant Vice President for Regional Student Services	A. J. Range
Assistant Vice President for Campus Life and Director, Off-Campus Student Services	Jimmy Watson
Assistant Vice President, Student Success Services	Dennis J. Dulniak
University Registrar	Melanie Parker
Executive Director, Career Services & Experiential Learning	Melanie Parker
Interim Director, Student Academic Resource Center and Multicultural Academic Support Services	Terry Exum
Director, Academic Services for Student-Athletes	Mark Gumble
Director, Activity and Service Fee Business Office	Joseph Sciarrino
Director, Alcohol and Other Drug Programming	Tom Hall
Director, Budget and Personnel	David L. Pavlonnis
Director, Assessment and Planning	Ronald Atwell
Director, Campus Faiths and Ministries	Brad Crawford

Director, Counseling Center	TBA
Director, Creative School for Children	Marcia Diebler
Director, Eastern Region Student Services	Diana Weidman
Director, First Year Advising and Information Services	Gloria Laureano
Director, Fraternity and Sorority Life	Belinda Boston
Director, Housing and Residence Life	Christi Hartzler
Director, LEAD Scholars and Leadership Programs	Gary Morgan-Muskin
Director, Office of Student Involvement	Kerry Welch
Director, Orientation Services	Joe Ritchie
Director, Partnership Development	Fritzlaine Powell
Director, Recreation and Wellness Center	William Ehling
Director, Rosen College of Hospitality Management Campus Life	Tony Perry
Director, Southern Regional Office of the National Consortium for Academics and Sports	Suzi Katz
Director, Student Disability Services	Philip N. Kalfin
Director, Student Health Services	Robert Faust
Director, Student Union	Suzanne Halpin
Director, Transition Advising	Robert Snow
Director, Transfer and Transition Services	Charlene Stinard

**Office of the Vice President for Research**

Vice President for Research	M. J. Soileau
Associate Vice President for Research	Tom O'Neal
Assistant Vice President for Research	Pallavoor N. Vaidyanathan
Assistant Vice President for Research	Mubarak Shah
Associate Director, Research Foundations	Betsy Gray
Associate Director, Research Information Systems	Beverly Laakso
Assistant Director, Communication	Barbara Abney
Security Clearance Officer	Kay Mullally
Technology Transfer	Herb Winfield

**Office of the Vice President for Administration and Finance**

Vice President for Administration and Finance	William F. Merck, II
Assistant Vice President	Judith E. Monroe
Director, Budget Office	Vanessa Fortier
Director, Business Services	Richard Stallworth
Director, Environmental Health and Safety	James E. Uhlir
Director, Facilities Planning	Peter Newman
Director, Human Resources	Mark A. Roberts
Director, Physical Plant	Richard D. Paradise
Director, Purchasing	Raymond Puskas
Director, University Police	Richard P. Turkiewicz
University Controller	Linda B. Bonta

**Office of the Vice President for University Relations**

Vice President for University Relations and Senior Counsel to the President	Daniel C. Holsenbeck
Director, Defense Transition Services	Alzo J. Reddick
Director, Economic Development	Edward Schons
Director, Federal Relations	Gregory Schuckman

**Colleges, Schools, and Departments**

**Burnett College of Biomedical Sciences**

Dean	P.E. Kolattukudy
Associate Dean	Roseann White
Assistant Dean, Facilities	Robert Gennaro
Program Director, Medical Laboratory Sciences	Dorilyn Hitchcock

**Burnett Honors College**

Dean	Alvin Wang
Associate Dean	TBD
Director of Undergraduate Research and Civic Engagement	Kelly Astro
Director of Student Services	Madi Dogariu
Director of Computer Operations	Andrew Holloway
Director of Student Affairs	Jill Norburn
Director of Administrative Services	Donna Plaisted
Director of Student Development	Lisa Sklar
Director of Advising	Peter Wallace

**College of Arts and Humanities**

Dean	José Fernandez
Associate Dean, Students	Lyman Brodie
Assistant Dean, Graduate and Undergraduate Programs	Consuelo Stebbins
Interim Director, School of Film and Digital Media	Terry Frederick
Chair, Art	Mark Price
Chair, English	Thomas Krise
Chair, History	Edward Kallina
Chair, Modern Languages and Literatures	Paolo Giordano
Chair, Music	Johnny Pherigo
Chair, Philosophy	Shaun Gallagher
Chair, Theatre	Roberta Sloan

**College of Business Administration**

Dean	Thomas L. Keon
Associate Dean	Bradley M. Braun
Associate Dean, Graduate and External Programs	Robin Roberts

Associate Dean, Undergraduate Programs	Taylor Ellis
Center for Executive Development	Kay Mittnik
Director, School of Accounting	Andrew J. Judd
Chair, Economics	Djehane Hosni
Chair, Finance	Anthony Byrd
Chair, Management	Foard Jones
Chair, Management Information Systems	Paul Cheney
Chair, Marketing	Ronald E. Michaels
Director, Student Support	Helen Y. Hill

**College of Education**

Dean	Sandra L. Robinson
Executive Associate Dean for Academic Affairs	Jennifer C. Platt
Associate Dean for Graduate Studies	Grant Hayes
Associate Dean for Research	Rex Culp
Chair, Educational Studies	Karen L. Biramah
Chair, Child, Family and Community Sciences	TBA
Chair, Teaching and Learning Principles	Robert Williams
Chair, Educational Research, Technology & Leadership	Conrad Katzenmeyer
Director of Development	Richard Sloane
Executive Director of Student Affairs	Tina M. Smilie
Director of Clinical Experiences	Carolyn Walker Hopp
Director of Student Services	Andrea Withington
Director of Minority Programs in Education	TBA

**College of Engineering and Computer Science**

Dean	Neal Gallagher
Associate Dean for Academic Affairs (Undergraduate and Graduate Studies)	Jamal F. Nayfeh
Interim Associate Dean for Research	Debra Reinhart
Assistant Dean for Distributed Learning	Sam Richie
Director, School of Electrical Engineering & Computer Science	Issa Batarseh
Director of Development	Wayne Weinberg
Director of Major Gifts	TBA
Director of External Relations	Christian S. Bauer
Director, Academic Support Services	Melissa Falls
Director, Minority Engineering and Computer Science Program	Jacqueline Smith
Interim Chair, Civil and Environmental Engineering	Avelino Gonzalez
Chair, Engineering Technology	Ronald Eaglin
Chair, Industrial Engineering and Management Systems	Lesia Crumpton-Young
Chair, Mechanical, Materials and Aerospace Engineering	Ranganathan Kumar
Chair, Aerospace Studies (Air Force ROTC)	Col. William Palmby
Chair, Military Science (Army ROTC)	LTC Allison Reinwald

**College of Health and Public Affairs**

Interim Dean	Joyce E. Dörner
Interim Associate Dean, Resource Planning and Management	Stephen Holmes
Associate Dean, Research and Graduate Studies	Kenneth Adams
Assistant Dean, Undergraduate Studies	Pamela E. Kirby
Assistant Dean, Student Affairs	Melvin Rogers
Chair, Communicative Disorders	R. Jane Lieberman
Chair, Criminal Justice and Legal Studies	Bernard J. McCarthy
Chair, Health Professions	Diane Jacobs
Director, School of Nursing	Jean Leuner
Chair, Public Administration	Montgomery Van Wart
Director, School of Social Work	Mary Van Hook
Director, Student Support	Judith A. Sindlinger

**College of Optics and Photonics**

Dean and Director	Eric Van Styland
-------------------	------------------

**Rosen College of Hospitality Management**

Dean	Abraham Pizam
Associate Dean	Stephen LeBruto

**College of Sciences**

Interim Dean	Peter Panousis
Associate Dean, Research and Graduate Programs	Michael Johnson
Associate Dean, Budget	Jack McGuire
Associate Dean, Undergraduate Programs	Haven Sweet
Chair, Anthropology	Arlen Chase
Chair, Biology	David Borst
Chair, Chemistry	Kevin Belfield
Director, Communication	Mary Alice Shaver
Chair, Math	Zuhair Nashed
Chair, Physics	Ralph Llewellyn
Chair, Political Science	Roger Handberg
Chair, Psychology	Robert Dipboye
Chair, Sociology	Harold Corzine
Chair, Statistics & Actuarial Sciences	David Nickerson

## 2006 - 2007 FALL / SPRING ACADEMIC CALENDARS

	Fall 2006	Spring 2007
Application deadline for Graduate International students	Jan. 15	July 1, 2006
Application deadline for Undergraduate International students	March 1	Sept. 1, 2006
Application deadline for all New Undergraduate Freshmen Applicants	May 1	Nov. 1, 2006
Application deadline for New Undergraduate Transfers	July 1	Nov. 1, 2006
Application deadlines for readmission	July 15	Nov. 15, 2006
Graduation Application (Intent to Graduate form) due in college advising office <sup>1</sup>	Aug. 4	Dec. 2, 2006
Registration and Add/Drop	Mar. 27 - Aug. 4	Mar. 27 - Jan 27, 2007
Residence halls open	Aug. 17 (11:00 a.m.)	Jan. 5 (1:00 p.m.)
Registration time for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)	Aug. 18	Jan. 5
Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)	Aug. 18	Jan. 5
Classes begin	Aug. 18	Jan. 5
Late Registration <sup>2</sup> and Add/Drop <sup>1</sup>	Aug. 21-25	Jan. 8-12
Last day for full refund <sup>1</sup>	Aug. 25	Jan. 12
Grade Forgiveness deadline <sup>1</sup>	Aug. 25	Jan. 12
Payment deadline <sup>2</sup>	Sep. 1	Jan. 19
CLAST test (register by September 2/Jan. 20)	Oct. 7	Feb. 17
Withdrawal deadline <sup>1</sup>	Oct. 13	Mar. 2
VA deferral payment deadline <sup>1</sup>	Nov. 17	Apr. 6
Classes end; last day to remove incomplete <sup>3</sup>	Dec. 2	Apr. 23
Final Examination Period	Dec. 4-9	Apr. 24 - May 30
Residence halls close (noon)	Dec. 10	May 1
Commencement	Dec. 11-12	May 3-5
Grades Due in Registrar's Office	Dec. 13	May 3
Grades Available on myUCF (begins 9:00 a.m.)	Dec. 15	May 5
<p><b>NOTE:</b> Dates are subject to change. Consult the <i>Schedule Web Guide</i> and online Academic Calendar (<a href="http://www.ucf.edu/info">www.ucf.edu/info</a>) for information.</p> <p><b>All</b> undergraduate degree-seeking students <b>are required</b> to attend Orientation <b>prior</b> 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.</p> <p><sup>1</sup> Ends at 5:00 p.m. on last day.  <sup>2</sup> \$100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop.  <sup>3</sup> \$100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.  <sup>3</sup> Incomplete grades <b>must</b> be removed within one year of the award date prior to graduation from the University, whichever comes first, else they will change to "F."</p>		
<b>University Holidays and Special Events</b>		
Labor Day Holiday	Sep. 4, 2006	
Homecoming Week (classes still held)	Oct. 30 - Nov. 4, 2006	
Veteran's Day Holiday	Nov. 10-11, 2006	
Thanksgiving Holiday	Nov. , 2005	
Martin Luther King Jr. Holiday	November 23-25, 2007	
Spring Break - Holiday	March 12-17, 2007	
Founders Day Honors Convocation (classes still held)	April 4, 2007	



# SUMMER 2007 ACADEMIC CALENDAR

Summer 2007	Session A	Session B	Session C	Session D
	<i>6 Weeks</i>	<i>6 Weeks</i>	<i>12 Weeks</i>	<i>9 Weeks</i>
Application deadline for all New Undergraduate				
Freshmen Applicants and Transfers	March 1	March 1	March 1	March 1
Application deadlines for readmission				
	April 13	April 13	April 13	April 13
Registration and Add/Drop				
	Mar. 26 - May 13	Mar. 26 - June 24	Mar. 26 - May 13	Mar. 26 - May 13
Graduation Application (Intent to Graduate form)				
due in college advising office <sup>1</sup>	Mar. 5 - April 23	Mar. 5 - April 23	Mar. 5 - April 23	Mar. 5 - April 23
Registration for State Employees, Non-degree,				
Transients and Audits (begins 3:00 p.m.)	May 11	June 22	May 11	May 11
Registration for UCF Employees, Senior Citizen Audits,				
and STEP (begins 3:30 p.m.)	May 11	June 22	May 11	May 11
Residence halls open (11:00 a.m.)				
	May 13	June 23	May 13	May 13
Classes begin				
	May 4	June 25	May 4	May 4
Late Registration <sup>3</sup> and Add/Drop <sup>1</sup>				
Fees due <sup>3</sup> ; Last day for full refund <sup>1</sup>	May 25, 2007 - Students registering from 3/26/07 through 5/18/07 7/6/07- Students registering for Summer B only through 6/29/07			
Grade Forgiveness deadline <sup>1</sup>				
	May 18	June 29	May 18	May 18
Withdrawal deadline <sup>1</sup>				
	June 1	July 13	June 22	June 15
VA deferral payment deadline <sup>1, 3</sup>				
	July 27	July 27	July 27	July 27
Classes end; last day to remove incomplete <sup>4</sup>				
	June 22	August 3	August 3	July 13
Final Examination Period <sup>5</sup>				
	June 22	August 3	August 3	July 13
Residence halls close (noon)				
	June 23	August 4	August 4	July 14
Grades due in Registrar's Office				
	June 25	August 6	August 6	July 16
Grades Available on myUCF (begins 9:00 a.m.)				
	June 26	August 8	August 8	July 17
Commencement				
	August 4	August 4	August 4	August 4
<p><small>NOTE: Dates are pending approval by the Florida Department of Education and subject to change. Consult the <i>Schedule Web Guide</i> and online Academic Calendar (<a href="http://www.ucf.edu/info">www.ucf.edu/info</a>) for information.</small></p> <p><small>All undergraduate degree-seeking students are <b>required</b> to attend Orientation <b>prior</b> 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.</small></p> <p><small><sup>1</sup> Ends at 5:00 p.m. on last day</small></p> <p><small><sup>2</sup> Summer B payment deadline for all students who register 3/26 - 5/18; Summer B payment deadline for all students who register May 19 - June 29.</small></p> <p><small><sup>3</sup> \$100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. \$100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.</small></p> <p><small><sup>4</sup> Incomplete grades <b>must</b> 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."</small></p> <p><small><sup>5</sup> Summer Final Exams are given during the last class meeting</small></p>				
<b>University Holidays and Special Events</b>				
Memorial Day Holiday ..... May 28, 2007				
Independence Day Holiday ..... July 4, 2007				



### Administrative Procedures Act Policy Statement

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

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

### Non-Discrimination Policy (including sexual harassment)

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

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

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

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

1EEO. Policies and guidelines are available online at <http://pegasus.cc.ucf.edu/~eeo/home.html>

### Drug-Free Workplace/Drug-Free Schools Policy Statement

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

### Campus Alcoholic Beverages Policy

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

#### Guidelines

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

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

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

Student organizations may develop more stringent regulations regarding alcohol use.

#### Locations

The sale of alcoholic beverages to individuals of legal age will be permitted in licensed areas by licensed on-campus distributors.

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

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

### Approval Procedures: Student Groups

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

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

### Approval Procedures: Non-Student Groups

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

For the complete and definitive version of the Drug-Free Workplace/Drug-Free Schools Policy Statement, please go to <http://www.goldenrule.sdes.ucf.edu>.

## Academic Behavior Standards

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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Plagiarism, whereby another's work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.
- Unauthorized assistance: communication to another through written, visual, or oral means. The presentation of material which has not been studied or learned, but rather was obtained solely through someone else's efforts and used as part of an examination, course assignment or project. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Commercial Use of Academic Material: Selling notes, handouts, etc. without authorization or using them for any commercial purpose without the express written permission of the University and the Instructor is a violation of this rule.

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

## Student Use of Technology

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

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

The University of Central Florida has developed one of the nation's most advanced campus technology environments, and all UCF students are provided 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>

## Policy for Undeclared Students

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

## Student Responsibility for University Communication

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

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

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

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

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

Students can update their contact information online at <https://my.ucf.edu>.

## Complaint Policy

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

## Accreditation

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

The University of Central Florida is accredited by the Commission on

# UNIVERSITY OF CENTRAL FLORIDA

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:

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

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, 129,500 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 is dynamically changing institution with growth and construction. Students and faculty enjoy state-of-the-art wireless classrooms and modern facilities, including a Barnes and Noble Bookstore with a cyber café, and a 185,000-square-foot Student Union with 11 restaurants and seven retail stores. Major construction projects recently completed include the Academic Village Residence Complex; the Progress Energy Student Support/Welcome Center; the four-story UCF Academy for Teaching, Learning and Leadership; the Wayne Densch Sports Center; and the 84,500-square-foot Recreation and Wellness Center. The College of Engineering and Computer Science is adding a third major building to complement its current 107,000-square-foot, high-tech wireless facility—and the new Rosen College of Hospitality Management is housed in a 159,000-square-foot campus on a 20-acre site in the heart of Central Florida's tourist corridor.

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

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

## Online@UCF, The Virtual Campus

<http://online.ucf.edu/>

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

Online courses are identified in the online Class Schedule Search (<https://my.ucf.edu>) by the Instruction Mode found on the class detail panel for each class. Web-related instruction modes are

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

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

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

### Center for Distributed Learning

*Assistant Vice-President and Director:* Steven E. Sorg;  
[sorg@mail.ucf.edu](mailto:sorg@mail.ucf.edu); 407-823-4910

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

## UCF Regional Campuses

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

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

All locations provide students with an opportunity to enroll in selected courses (junior and senior level) contributing to undergraduate and graduate degrees in a variety of disciplines within the university. As a UCF student, students may register full time or part time for courses at any of the locations without additional paperwork. For the most current information on any of the multiple UCF Regional Campus locations, programs or class schedules, **check the website at [www.regionalcampuses.ucf.edu](http://www.regionalcampuses.ucf.edu)**

## Administration

**UCF Regional Campuses Central Administration**  
12201 Research Parkway, Suite 101  
Orlando, 32626; 407-823-4547

Vice Provost, UCF Regional Campuses .....David Harrison  
Senior Administrative Assistant .....Dania Suarez  
Asst. Vice President, Student Services .....A.J. Range  
Director, Academic Planning .....Bill Wetherell  
Instructional Facilities Scheduler .....Barbara Smith  
Coordinator, Statistical Research .....Charles Otto  
Coordinator, Statistical Research .....Jeanne Walker  
Director, Admissions .....Ange Peterson  
Director, Advising .....Judy Boyte  
Director, Business Affairs .....Jim Moriarty  
Assoc. Dir., Academic Support Services .....Vicky Matthews  
Director, Communications .....Karen Jans  
Coordinator, Web Administrator .....Tony Recascino  
Senior Art Specialist .....Mary Lou Wade  
Assoc. Director, Head of Partnership Library Services .....Mem Stahley  
Coordinator, Computer Technology .....Kirk Henry

### Central Region (UCF at Downtown)

Asst. Vice President, Central Region .....David Mealor  
Coordinator, Ed Media/ITV .....Jim Weaver

### Eastern Region

**(UCF at Daytona Beach, UCF at Heathrow, UCF at Sanford/Lake Mary)**

Asst. Vice President, Eastern Region .....Bernard Jensen  
Director, Eastern Region .....David Laney  
Asst. Director, Acad. Support Services .....TBA  
Coordinator, Admissions, Reg., Records .....Tena Harris  
Program Officer, Admissions, Reg. ....Sheri Newble-Dunn  
Coordinator, Financial Aid .....Charlene Driver  
Coordinator, Acad. Support Services .....Leeann Davis  
Coordinator, Acad. Support Services .....Darryl Greeley  
Coordinator, Acad. Support Services .....Raphel Robinson  
Coordinator, Acad. Support Services .....Cindi Thomas  
Director, Student Services .....Diana Weidman  
Coordinator, Computer Technology .....Jason Mayer

### Southern Region

**(UCF at Cocoa, UCF at Palm Bay)**

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

Asst. Director, UCF Palm Bay .....TBA  
Coordinator, Admissions, Reg., Rec. ....Deborah Bradford  
Interim Director, Student Services .....James C. Smith  
Coordinator, Ed Media/ITV .....Sue Sorensen  
Coordinator, Acad. Support Services .....Veronika Corpuz  
Coordinator, Acad. Support Services .....Angel Edgecombe  
Coordinator, Acad. Support Services .....Angelia Jones  
Coordinator, Acad. Support Services .....John King  
Coordinator, Acad. Support Services .....Sheryl Schagen

### Western Region

**(UCF at MetroWest, UCF at Ocala, UCF at Osceola, UCF at South Orlando, UCF at South Lake)**

Asst. Vice President, Western Region .....Cecelia Rivers  
Director, Western Region .....Edgar Martinez  
Coordinator, Admissions and Reg. ....Christie Pansinin  
Coordinator, Acad. Support Services .....Tanya Armstrong  
Coordinator, Acad. Support Services .....Selena Forrester  
Coordinator, Acad. Support Services .....Kathy Halliwell  
Coordinator, Acad. Support Services .....Robin Tinsley  
Coordinator, Ed Media/Communication .....TBA

### UCF at Cocoa

**(321) 433-7821**

**(In partnership with Brevard Community College)**

#### Undergraduate Degree Programs

Applied Science (Supervision & Administration or Industrial Operations Track) (B.A.S.) *Office of Undergraduate Studies*  
Business Administration (B.A.B.A) *College of Business Administration*  
Communicative Disorders (B.A., B.S.) *College of Health and Public Affairs*  
Criminal Justice (B.A., B.S.) *College of Health and Public Affairs*  
Elementary Education (B.S.) *College of Education*  
Engineering Technology – Operations (B.S.E.T.) *College of Engineering and Computer Science*  
Exceptional Student Education (B.S.) *College of Education*  
History (B.A.) *College of Arts and Humanities*  
Legal Studies (B.A., B.S.) *College of Health and Public Affairs*  
Liberal Studies (B.A., B.S.) *Office of Undergraduate Studies*  
Nursing (B.S.N., R.N. to B.S.N.) *College of Health and Public Affairs*  
Political Science (B.A.) *College of Sciences*  
Pre-Engineering/Engineering (BCC-UCF Joint Program B.S.E.) *College of Engineering and Computer Science*  
Psychology (B.A., B.S.) *College of Sciences*  
Sociology (B.A.) *College of Sciences*

#### Undergraduate Minors

Anthropology in Multicultural Studies  
Business (For non-business majors only)  
Communicative Disorders  
Criminal Justice  
English – Writing  
Exceptional Education  
Health Services Administration  
History  
Interpersonal Communication  
Legal Studies  
Organizational Communication  
Political Science  
Psychology  
Religious Studies  
Social Sciences – Interdisciplinary  
Sociology  
Women's Studies (Minor and Certificate)

#### Graduate Degree Programs

Business Administration (P.M.B.A.)\* *College of Business Administration*  
Criminal Justice (M.S.) *College of Health and Public Affairs*  
Education Leadership (M.Ed.) *College of Education*  
Engineering FEEDS/ITV (M.S.) *College of Engineering*  
Health Sciences: Health Services Administration (M.S.) *College of Health and Public Affairs*  
Industrial Engineering and Management Systems (M.S.) *College of Engineering and Computer Science*  
Public Administration (M.P.A.) *College of Health and Public Affairs*  
Reading Education (M.Ed.) *College of Education*

\*Administered in association with the Executive Development Center of the College of Business Administration.

# University of Central Florida

## Graduate Certificate Programs

ESOL Endorsement K-12  
Public Administration  
Reading Education  
Teaching English as a Foreign Language

## UCF at Daytona Beach

(386) 506-4021

(In partnership with Daytona Beach Community College)

### Undergraduate Degree Programs

Applied Science (Supervision & Administration Track) (B.A.S.) *Office of Undergraduate Studies*  
Business Administration (B.A.B.A.) *College of Business Administration*  
Criminal Justice (B.A., B.S.) *College of Health and Public Affairs*  
Early Childhood Education (B.S.) *College of Education*  
Elementary Education (B.S.) *College of Education*  
Exceptional Student Education (B.S.) *College of Education*  
Legal Studies (B.A., B.S.) *College of Health and Public Affairs*  
Liberal Studies (B.A., B.S.) *Office of Undergraduate Studies*  
Nursing (B.S.N., R.N. to B.S.N.) *College of Health and Public Affairs*  
Photography (B.S.) *College of Arts and Humanities*  
Political Science (B.A.) *College of Sciences*  
Psychology (B.A., B.S.) *College of Sciences*  
Social Sciences (B.S.) *College of Sciences*  
Sociology (B.A.) *College of Sciences*

### Undergraduate Minors

Anthropology in Multicultural Studies  
Business (For non-business majors only)  
Criminal Justice  
Early Childhood Education  
English – Writing  
Exceptional Education  
Health Services Administration  
History  
Hospitality Management  
Interpersonal Communication  
Legal Studies  
Organizational Communication  
Political Science  
Psychology  
Religious Studies  
Social Sciences – Interdisciplinary  
Sociology  
Women's Studies (Minor and Certificate)

### Graduate Degree Programs

Business Administration (P.M.B.A.)\* *College of Business Administration*  
Clinical Psychology (M.A.) *College of Sciences*  
Criminal Justice (M.S.) *College of Health and Public Affairs*  
Educational Leadership (M.Ed.) *College of Education*  
Health Sciences: Health Services Administration (M.S.) *College of Health and Public Affairs*  
Reading Education (M.Ed.) *College of Education*  
Social Work (M.S.W.) *College of Health and Public Affairs*  
\*Administered in association with the Executive Development Center of the College of Business Administration

## Graduate Certificate Programs

Corrections Leadership  
ESOL Endorsement K-12  
Professional Writing  
Reading Education

## UCF Downtown

(407) 317-7700

### Undergraduate Degree Programs

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

### Undergraduate Minors

English – Writing  
Health Services Administration  
History  
Legal Studies  
Political Science

Psychology  
Social Sciences – Interdisciplinary  
Sociology

## UCF at Heathrow

(407) 531-5450

(In partnership with Seminole County Community College)

### Graduate Degree Program

Industrial and Organizational Psychology (M.S.) *College of Sciences*

## UCF at MetroWest

(407) 582-5500

(In partnership with Valencia Community College)

### Undergraduate Degree Programs

Applied Science (Supervision & Administration Track) (B.A.S.) *Office of Undergraduate Studies*  
Business Administration (B.A.B.A.) *College of Business Administration*  
Liberal Studies (B.A.) (Very limited in scope. Please see an advisor.)  
*Office of Undergraduate Studies*  
Psychology (B.A.) *College of Sciences*

### Undergraduate Minors

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

## UCF at Ocala

(352) 854-2322, ext. 1818

(In partnership with Central Florida Community College)

### Undergraduate Degree Programs

Elementary Education (B.S.) *College of Education*  
Psychology (B.A.) *College of Sciences*

### Undergraduate Minors

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

## UCF at Osceola

(407) 856-6585

(In partnership with Valencia Community College)

### Undergraduate Degree Programs

Elementary Education (B.S.)\* *College of Education*  
Exceptional Student Education (B.S.)\* *College of Education*  
\*Admission by cohort only. Please see adviser for further information.

## UCF at Palm Bay

(321) 433-7995

(In partnership with Brevard Community College)

### Undergraduate Degree Programs

Business Administration (B.A.B.A.) *College of Business Administration*  
Early Childhood Education (B.S.) *College of Education*  
Liberal Studies (B.A., B.S.)(Very limited in scope. Please see an advisor.) *Office of Undergraduate Studies*  
Psychology (B.A.) *College of Sciences*

### Undergraduate Minors

Criminal Justice  
Early Childhood Education  
English – Writing  
Health Services Administration  
History  
Legal Studies

Organizational Communication  
Political Science  
Psychology  
Social Sciences – Interdisciplinary  
Sociology

#### Graduate Degree Programs

Health Sciences: Health Services Administration (M.A.)  
College of Health and Public Affairs  
(407) 328-2471  
(In partnership with Seminole Community College)

### UCF at Sanford/Lake Mary

(407) 328-2471

(In partnership with Seminole Community College)

#### Undergraduate Degree Programs

Applied Science (Supervision & Administration Track) (B.A.S.) *Office of Undergraduate Studies*

Business Administration (B.A.B.A.) *College of Business Administration*  
Criminal Justice (B.A., B.S.) *College of Health and Public Affairs*  
Elementary Education (B.S.) *College of Education*  
Legal Studies (B.A., B.S.) *College of Health and Public Affairs*  
Liberal Studies (B.A., B.S.) *Office of Undergraduate Studies*  
Psychology (B.A.) *College of Sciences*

#### Undergraduate Minors

Business (For non-business majors only)  
Criminal Justice  
English – Writing  
Health Services Administration  
History  
Interpersonal Communication  
Legal Studies  
Organizational Communication  
Political Science  
Psychology  
Social Sciences – Interdisciplinary  
Sociology  
Women's Studies

### UCF at South Lake

(352) 536-2113

(In partnership with Lake-Sumter Community College)

#### Undergraduate Degree Programs

Business Administration (B.A.B.A.) *College of Business Administration*  
Early Childhood Education (B.S.) *College of Education*  
Elementary Education (B.S.) *College of Education*  
Liberal Studies (B.A.) (Very limited in scope. Please see an advisor.)  
*Office of Undergraduate Studies*  
Psychology (B.A.) *College of Sciences*  
Sports and Fitness (B.S.) *College of Education*

### UCF at South Orlando

(407) 856-6585

7300 Lake Ellenor Drive, Orlando, FL 32809

This location provides course work (junior and senior level) contributing to undergraduate degrees. Please check the schedule for course offerings.

#### Undergraduate Minors

Business (For non-business majors only)  
Early Childhood Education  
English – Writing  
Health Services Administration  
History  
Legal Studies  
Political Science  
Psychology  
Interdisciplinary  
Sociology

**The following UCF Regional Campus Minors are available completely (but not exclusively) on the web:**

English - Writing  
Health Services Administration  
History  
Legal Studies  
Political Science

Psychology  
Social Sciences - Interdisciplinary  
Sociology

### Central Florida Research Park

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

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

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

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

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

### Endowed Chairs

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

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

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

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

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

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

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

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

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

**Bert Fish Memorial Eminent Scholar Chair:** Created in 1990 to

## University Of Central Florida

establish an endowed chair in nursing education. This is the first chair to be established at the Daytona Campus. It is designed to improve nursing education and ease the shortage of nurses. *Chair:* Angeline A. Bushy.

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

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

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

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

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

**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, III.

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

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

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

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

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

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

### University Ombuds Office

The Office of the Ombuds Officer provides members of the University community assistance and advice regarding concerns related to the University. These services are available to every member of the University community: students, staff, faculty, and others. Any type of concern may be brought to the attention of this office: academic, financial, housing, consumer, work-related, or personal. The University Ombuds Officer is a neutral facilitator, and will listen to concerns, help individuals explore options, offer suggestion and advice, and assist in the resolution of the concern. Referral and direction to appropriate individuals and offices, and clarification of University policies and procedures are services of the office. All proceedings in individual cases will be held confidential by the Ombuds Officer unless otherwise authorized by the complainant, or otherwise required by applicable law, including without limitation, Chapter 119, Florida Statutes. The University Ombuds Office is located in Millican Hall, Suite 243, room 247. Appointments may be made by calling 407-823-6440.

### Office of Undergraduate Studies

*Vice-Provost and Dean:* John F. Schell; MH 311, 407-823-4197

The Office of Undergraduate Studies supports the colleges in their curricular planning, collaborates with faculty curricular oversight, works with faculty and administrators to assure the strength of university wide programs such as general education, and advocates for an undergraduate education that offers an outstanding learning experi-

ence to UCF students. Interdisciplinary academic programs such as the Bachelor of Applied Sciences and the Liberal Studies Program are part of this office as is the Office of Academic Services. Also reporting to the Dean of Undergraduate studies are the Division of Continuing Education, the Office of Experiential Learning, the Faculty Center for Teaching and Learning, the Office of McNair and RAMP Scholars Programs, the Office of Undergraduate Research, and the Coordinator of Special Undergraduate Programs. The Dean serves as the final appeal for all undergraduate academic appeals.

#### Academic Services

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

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

### International Services Center

*Associate Director:* Nataly Chandia  
CMMS (Building #81), 407-823-2337

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

### UCF Public Safety and Police

The UCF Police Department is a full-service law enforcement agency. The 50 certified police officers provide police services twenty-four hours a day, seven days a week. The Patrol Division patrols the campus on foot, marked patrol cars, canine units, and on marked motorcycles. The Investigations Unit (407-823-5980) consists of five detectives who investigate all unresolved criminal cases.

The Community Relations Unit (407-823-2165) presents crime prevention seminars for property protection and personal safety for the community. The Community Relations Unit also hires and trains students for the Safe Escort Patrol Service (SEPS) 407-823-2424, which is an evening escort service for all individuals on campus (Sunday through Thursday evenings, 7:00 p.m. to 1:00 a.m.). The Victim Services Unit, University Towers, Ste. 450, 12201 Research Parkway, (the main office number: 407-823-2425; Christine Mouton, Coordinator, 407-823-1894; Katie McDaniel, Victim Advocate, 407-823-1892) provides services for: 1) emotional support and practical assistance; 2) information and referrals; and 3) education. The Parking Services Division (407-823-5812) maintains campus parking and provides assistance to stranded motorists. For more information about parking regulations, online registrations for parking decals, and the UCF Shuttle Program, see their website at <http://parking.ucf.edu>

UCFPD publishes a complete brochure titled Knight's Safety Guide. The Knight's Safety Guide presents an overview of all police services and offers crime prevention safety tips and campus crime statistics in compliance with the Federal Crime Awareness and Security Act of 1990. A copy of the Knight's Safety Guide is available at the Undergraduate Admissions Office, Human Resources Office, and the University Police Department. A copy is mailed each year to students and staff. For more information the UCFPD website is <http://police.ucf.edu>



## Information Technologies and Resources

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

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

### University Libraries

<http://library.ucf.edu>

Director of University Libraries: 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

Associate Director for Collections and Technical Services:  
 Jeannette A. Ward

LR 502; 407-823-2575

Assistant Director for Systems and Technology: Selma K. Jaskowski  
 LR 512; 407-823-5444

Librarians: Barbara J. Alderman, Buenaventura B. Basco, Penny M. Beile, Timothy J. Bottorff, Lyn S. Case, Linda K. Colding, Eda M. Correa, Deborah M. Ebster, John R. "Rich" Gause, Jr., Donna R. Goda, Richard H. Harrison, Carole S. Hinshaw, Athena R. Hoepfner, Elizabeth K. Killingsworth, Marcus D. Kilman, Allison O. King, Cynthia M. Kisby, Elizabeth V. Konzak, Cheryl A. Mahan, M. Jason Martin, Hal D. Mendelsohn, Kimberly K. Montgomery, Renee C. Montgomery, Jeanne M. Piascik, Meredith C. Semones, Kristine J. Shrauger, Roger D. Simmons, Marilyn R. Snow, Peter Spyers-Duran II, Mem T. Stahley, Catherine L. Steffens, Carla M. Summers, Terrie K. Sypolt, Andrew D. Todd, Rachel G. Viggiano, Jack L. Webb, Ying Zhang.

University Libraries offers a variety of information resources and services. An extensive print resource collection includes 1.6 million volumes, 16,500 journal subscriptions, 2.9 million microforms and 40,000 media titles. The libraries' rapidly growing electronic resources include 362 databases, 45,000 e-books, and 9,200 electronic journals. The library is a partial depository for United States and Florida government publications.

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

WebLUIIS, the Library's web-based catalog, can be accessed from any public or home PC. WebLUIIS also offers a gateway to hundreds of electronic databases, the catalogs of other state university libraries and the community college system libraries. For help and advice in the use of the Library and its materials, the Reference Desk is open during most library hours. Librarians are on duty for assistance with selection and use of online and traditional resources, and individual appointments can be made for in-depth research consultation. <http://library.ucf.edu/ask/> connects students with Ask a Librarian, where questions are submitted and answered in a real time chat session, by email, or by telephone at (407) 823-2562, or toll-free at (866)271-7589.

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

Primary source material from Special Collections supports the research, teaching, and service of the UCF community. These special materials, which 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. The 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/cmc> or call 823-2791.

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

Additional library collections are available at the Brevard Community College/UCF Joint-Use Libraries in Cocoa and Palm Bay, the Daytona Beach Community College Joint-Use Library in Daytona Beach and the UCF Southlake (Clermont) Joint-Use Library. The university partners with local community colleges to provide complete information services, including materials processing and check-out at these regional sites. All locations have electronic access to WebLUIIS 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>.

### Office of Instructional Resources

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

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

## University Of Central Florida

at South Orlando, and other regional locations. OIR provides cable television delivery on the Orlando campus, ISDN and IP-based videoconference equipment and services.

### Course Development and Web Services

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

Course Development and Web Services (CDWS) is responsible for supporting UCF's institutionally-sponsored online programs such as online learning (<http://online.ucf.edu>), the main Web site (<http://www.ucf.edu>), myUCF portal (<http://my.ucf.edu>), and enterprise applications such as AskUCF (<http://ask.ucf.edu>), and eCommunity (<http://ecomunity.ucf.edu>). CDWS also conducts faculty development for initiatives identified as priorities for support through an institutional planning process. Examples of faculty development include IDL6543 (<http://reach.ucf.edu/~idl6543>), ADL5000 (<http://reach.ucf.edu/~adl5000>), and Essentials (<http://reach.ucf.edu/~essentials>). CDWS offers support for students taking online courses through the Learning Online Web site (<http://learn.ucf.edu>), and offers support for faculty through the Teaching Online Web site.

CDWS sponsors events, professional development opportunities, and research and development activities through the Partnership for the Advancement of Distributed Learning located in the Partnership II building in UCF's Research Park. CDWS recruits talented students regularly to work on a variety of multimedia projects that support UCF's mission. CDWS' Techranger<sup>SM</sup> Team produces Web sites for courses and hosts TechTime events.

### Intercollegiate Athletics

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

### Graduation Rate Disclosure

The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking undergraduate students who are enrolling for the first time at the institution, and who have not previously enrolled at any other institution of higher education, either complete or graduate from their programs. The freshman retention rate for Fall 2004 students is 83 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](http://www.arena.ucf.edu). For event or rental information, call 407-823-3070.

### University Bookstore

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

### Transit Services

Through joint efforts of UCF, LYNX and the University/Alafaya Corridor Transportation Association (UACTA), UCF students, faculty, and staff have a number of transit options. Three LYNX bus routes serve UCF from Oviedo, Downtown Orlando, and Valencia Community College East campus. Through the use of these routes, commuters can connect to most anywhere in Greater Orlando. These buses normally operate at 30 to 60 minute intervals. The cost to ride LYNX is \$1.25 per

ride. Special passes are available at discounted rates. Route maps may be obtained at the Millican Hall Information Booth or by calling UACTA at 407-658-8492, or LYNX at 407-841-8240.

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

### The Orlando-UCF Shakespeare Festival

The Orlando-UCF Shakespeare Festival is Central Florida's classical theater, presenting professional artists in a variety of world-class plays. An Equity company, the Festival presents a 6-play Signature Series of Shakespeare and other works; a Theater for Young Audiences Series; PLAYFEST, the Orlando Festival of New Plays; and innovative educational programming that includes "The Young Company", "Shakespeare Alive", and Shakespeare". 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 develops and maintains alumni awareness and support of the university. While alumni comprise the core member group, membership in the UCF Alumni Association is available during all phases of UCF life. Children up to age 12 can have fun through the Junior Jousting Program. UCF students can join 4EVER KNIGHTS, offering them valuable interaction with alumni. Parents of UCF students can stay connected through Parent Memberships.

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

- Money-saving benefits, discounts, and services from buying UCF logo merchandise to saving money on auto, home or health insurance.
- Social and networking opportunities at Networking Knights, AlumKnight Outs, cultural events, pre-game events, KnightFest, community volunteer projects, travel getaways and road trips.
- Career assistance through a partnership with UCF Career Services & Experiential Learning with free access to the GOLD Connection, including job listings and on-campus recruiting.
- Access to UCF facilities such as the Recreation and Wellness Center, the UCF Library, and the UCF Student Union (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](http://www.ucfalumni.com), our Web site.

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

## Office of the Vice President for Marketing, Communications, and Admissions

*Vice President for Marketing, Communications and Admissions:*  
Thomas Huddleston, Jr., Millican Hall, 210; 407-823-2232

### Purpose Statement

Create, coordinate and deliver strategic communications and quality enrollment that add value to the university.

### Overview

The division of the Vice President for Marketing, Communications, and Admissions coordinates and directs the functions of the university most directly responsible for establishing, originating and disseminating positive, targeted communications developed to enhance and forward the university's prominence, achievements, identity and value to its diverse constituencies. This value is defined not only in geographic terms, encompassing international, national, state and local audiences, but in terms of defined audiences ranging from prospective students, staff, faculty and corporate partnerships to the communities the university serves and its stakeholders.

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

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

The division is committed to achieving the highest possible competitive advantage for the university. This will be measured not simply in terms of quantity or even quality of the communications the division

produces, but on the increasing awareness of and positive associations with the university's diverse constituencies.

### Undergraduate Admissions

*Assistant Vice President:* Gordon D. Chavis, Jr., J.D.;  
Progress Energy University Welcome Center  
407-823-3000; email: [admission@mail.ucf.edu](mailto:admission@mail.ucf.edu);  
<http://www.admissions.sdes.ucf.edu>

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

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

### Student Financial Assistance

*Executive Director:* Mary H. McKinney  
MH 120  
<http://finaid.ucf.edu>

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

### Student Outreach Programs

*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 select underrepresented student groups to complete a college education. These students are provided with essential information, educational materials and collegial experiences to enhance their preparation for post-secondary study.

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

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





## Division of Student Development and Enrollment Services

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

### Introduction

The Division of Student Development and Enrollment Services (SDES) is an integral part of the University of Central Florida. Reporting to the provost, SDES is responsible for the administration and management of programs, services, facilities, and activities designed to support learning both inside and outside the classroom.

The division is committed to providing an integrated program of opportunities that emphasizes key transitions, student and academic support services, and personal growth. Some of these include: orientation, first year academic advising, academic exploration, registration, multicultural services, personal counseling, housing and residence life, health services, career development, the student union, recreation services, student activities and organizations, tutoring, learning assistance, and leadership development.

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

The division is comprised of four main areas: Academic Development and Retention, Campus Life, Administrative Services, and Assessment and Planning. Together, we strive to measure our

success by student persistence, quality service, and exceptional learning.

### Academic Development and Retention

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

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

### Academic Services for Student-Athletes (ASSA)

*Director:* Mark Gumble; WDSC 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 110; 407-823-5243  
<http://www.ncasse.org>

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

### Student Success Center

Assistant Vice President, DeLaine Priest; PH 216;  
 407-823-2137; <http://ssc.sdes.ucf.edu>

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

### Academic Exploration Program (AEP)

407-823-5322; <http://aep.sdes.ucf.edu>

The Academic Exploration Program has been developed to provide structured experiences to assist students who have not declared a major. Students are provided major exploration and career development connections as primary advising initiatives so they can 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, major and career exploration programming activities, and online assessments. 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: Gloria Laureano; PH 116; 407-823-3789  
<http://firstyear.sdes.ucf.edu>

UCF recognizes that starting in a new learning environment can present many challenging life transitions for incoming freshmen students. First Year Advising and Exploration has been established to prepare and advise first-time-in-college students (not assigned to other first year advising offices). The overriding mission of the office is to assist first-year students by providing numerous academic advising support services and other programs that will lead to their overall satisfaction, success and retention at UCF. Students who have not selected a major (Undeclared students) are provided focused advising support services through the Academic Exploration Program to assist them in the major selection process.

To fulfill this mission, each student is assigned a specific academic advisor who connects with the student through various activities such as orientation, small group advising sessions, outreach programs, email and phone communication, and individual appointments. The office focuses its efforts on providing proactive academic advising support, establishing early and regular communication, and providing outreach advising activities for first year students residing in both on- and off-campus facilities. FYAE also offers academic advising at a satellite office located in the Pegasus Landing affiliated housing area. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised through First Year Advising and Exploration. For further information, visit Howard Phillips Hall, room 116, or the FYAE website at <http://firstyear.sdes.ucf.edu>.

### Multicultural Academic and Support Services (MASS)

Interim Director: Terry Exum; PH 102  
 407-823-2716; <http://www.mass.sdes.ucf.edu>

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

### Student Academic Resource Center (SARC)

Interim Director: Terry Exum; PH 113; 407-823-5130  
[www.sarc.sdes.ucf.edu](http://www.sarc.sdes.ucf.edu)

The Student Academic Resource Center provides high-quality programs and services that enable UCF students to achieve their academic goals. 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 on how to learn the subject matter.

Free peer tutoring is also available for many UCF subject areas, such as 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 success workshops designed to address common student issues. Among these are test-taking strategies, time management, reading effectiveness, and memory improvement. Additionally, preparatory workshops are offered for the math portions of the College Level Academic Skills Test (CLAST) and General Knowledge exam. Computer-assisted learning programs are also available for the GRE, GMAT, and CLAST exams.

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

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

### University Testing Center (UTC)

Assistant Director, Rebecca Piety; PH 107; 407-823-5109  
[www.sarc.sdes.ucf.edu](http://www.sarc.sdes.ucf.edu)

The University Testing Center administers the state College Level Academic Skills Test (CLAST) and the Computer-Adapted CLAST (CAT-CLAST); placement examinations such as the College Placement Test (CPT); Foreign Language Proficiency Exam (FLPE); Grammar Proficiency Exam (GPE); Institutional Academic College Test (ACT); and College Level Examination Program (CLEP). UTC 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](http://www.sarc.sdes.ucf.edu).

### Transfer and Transition Services

Director: Charlene A. Stinard; PH 221; 407-823-2231  
<http://transfer.sdes.ucf.edu>

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

- General advising and referral for transfer students before and after they enroll at UCF;
- Advising for transfer students who are undeclared majors, undecided, or changing majors;

## Division Of Student Development And Enrollment Services

- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- Transition advising services for FTICs with 45+ credit hours, currently enrolled sophomores, juniors and seniors who are undeclared or changing majors;
- Peer Mentors provide transfer advising services;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities;
- Articulation workshops and conferences involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions;

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

### Orientation Services

Director: Joe Ritchie; PH 218; 407-823-5105  
[www.orientation.sdes.ucf.edu](http://www.orientation.sdes.ucf.edu)

The orientation program (combining pre-enrollment orientation with extended first year transition programs for academic credit) assists entering freshmen and transfer students with their transition to the University of Central Florida by providing information about student services, campus life, academic support, academic advising, and registration. Every freshman and transfer student is required to attend an orientation session prior to registering for classes.

Students register for the program and get further information by visiting the Orientation Services website at <http://orientation.sdes.ucf.edu>

### Career Services & Experiential Learning (CSEL)

Executive Director, Melanie Parker; FC;

407-823-2361 (Career Services)  
407-823-2667 (Experiential Learning)  
<http://www.csel.ucf.edu>

Career Services & Experiential Learning (CSEL) offers a comprehensive range of services to help UCF students of any major reach their academic and career goals with a talented staff of career and experiential learning specialists. These comprehensive services are designed to help First Year through Graduate students with all phases of career development and applied learning experiences to include:

- Major and Career Choices
- Academic and Career Information
- Experiential Learning Opportunities (Co-op, Internships, Service Learning)
- Resumes and Cover Letters
- Interviewing Skills
- Job Search Strategies
- Employment Assistance (Career Fairs, On-Campus Recruiting, Job Postings and Resume Referrals)
- Graduate School Information

These programs and services are available through walk-in assistance, scheduled appointments, workshops, and major events.

### Counseling Center

Director: TBA.; CC; 407-823-2811  
<http://www.counseling.sdes.ucf.edu>

The Counseling Center serves UCF enrolled students who seek assistance with developmental and mental-health related concerns and the broader campus community by offering a wide variety of programs in direct support of the university mission. The Center is composed of a professional staff of licensed (or license-eligible) psychologists, mental health counselors and social workers who provide a confidential atmosphere and a safe environment in which students may explore and resolve issues of concern. The Center also provides advanced training and supervision for graduate students in counseling. The Center is open Monday through Friday. Services offered by the Center include

- Short-Term Individual Counseling
- Group Counseling and Workshops
- Crisis Intervention
- Couples Counseling
- Professional Consultation
- Outreach and Presentations
- Referral

For additional information, visit the Counseling Center website at <http://www.counseling.sdes.ucf.edu>

### Registrar's Office

University Registrar: Dennis J. Dulniak; MH 161 407-823-3100  
Registration HelpLine: 407-823-3533  
E-mail: [registrar@mail.ucf.edu](mailto: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

Assistant University Registrar: H. Lee Parker; MH 161; 407-823-2707; <http://www.va.sdes.ucf.edu>

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

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

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

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

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

Students currently enrolled at UCF and another institution may receive VA educational benefits, but first must complete the appropriate Transient Form and consult with Veterans Services. Veterans and eligible dependents who desire to change their major, or pursue a dual major, dual degree, or who add a minor may receive VA educational benefits but must obtain approval from DVA before taking any of the applicable courses. This includes a minor in military science. NOTE: some majors may have extra elective hours that can be used for courses for a minor or another major.

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

Individuals placed on academic probation will continue to receive benefits as long as he or she earns a 2.0 or higher GPA each term. For students who fail to maintain satisfactory academic progress, benefits will be terminated once the required credit hours of course work for the program of study are completed, regardless of the GPA or eligibility for graduation. Veterans and eligible dependents also may draw VA benefits during the periods of eligibility while on Cooperative Education assignments. Payment is received during both the on-campus and off-campus work terms. Contact Veterans Services for more specific benefit information on Cooperative Education.

## Student Disability Services (SDS)

*Director:* Philip Kalfin; FC 132; 407-823-2371  
<http://www.sds.sdes.ucf.edu>

The Office of Student Disability Services provides information and individualized accommodations consistent with the student's documented disability. Such accommodations may include, but are not limited to, assistance with classroom accommodations (including examination accommodations), assistance with course registration, and information and referral to campus and community services for students with disabilities.

To be eligible for disability-related accommodations, students must have a documented disability as defined by applicable federal and state laws. Accommodations are available to students whose disabilities include, but are not limited to, attention-deficit hyperactivity disorder, deaf and hard-of-hearing, physical disability and/or health-related impairment, psychological and/or psychiatric disability, specific learning disability (such as dyslexia), speech impairment, visual impairment, or other disabilities requiring administrative or academic accommodations. Students seeking accommodations are required to provide recent documentation from an appropriate health care provider or professional.

If a student needs special admission consideration based on a disability, the student should answer this question on the Application for Admission form and send the requested appropriate documentation to the Undergraduate Admissions Office.

After admission to the University, students who have a disability that may require disability accommodations must contact Student Disability Services for an intake interview to be eligible to receive disability accommodations. The student will be required to provide disability documentation during the intake interview at Student Disability Services. All information is confidential and will be used only to assist the student. A Text Telephone (TTY)/Telecommunication Device for the Deaf (TDD) is available for deaf/hard-of-hearing or speech-impaired persons with TTYs/TDDs to contact Student Disability Services (TTY/TDD calls only phone 407-823-2116).

## Administrative Services

*Associate Vice President:* Sharon Ekern; MH 282; 407-823-3167  
<http://www.admin.sdes.ucf.edu>

## Budgets and Personnel Support

*Director:* David L. Pavlonnis; MH 282; 407-823-1045  
<http://www.asfbusinessoffice.ucf.edu>

## Activity and Service Fee Business Office

*Director:* Joseph Sciarro; 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 209. 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 TicketMaster Retail Outlet.

## Alcohol and Other Drug Prevention Programming

*Director:* Tom Hall; Counseling Center; 407-823-0879  
[www.aod.sdes.ucf.edu](http://www.aod.sdes.ucf.edu)

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

Additionally, this office serves as an umbrella for the Real Project Peer Education Program.

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

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

## Creative School for Children

*Director:* Marcia Diebler; CSC; 407-823-2726  
<http://www.csc.sdes.ucf.edu>

The Creative School for Children is the Educational Research Center for Child Development and provides an early experience educational program for children ages 2 -5 years old. The 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. The school enrolls children of university students, faculty, and staff. Operating hours are 7:45 a.m. to 5:15 p.m., Monday through Friday.

## REACH Health and Peer Education Program

*Coordinator:* Keri Nola;  
LS 716, 407-823-5457

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

## Assessment and Planning

*Director:* Ronald H. Atwell; MH 282; 407-823-2628  
<http://www.assess.sdes.ucf.edu>

This office provides the Vice President and units of Student

## Division Of Student Development And Enrollment Services

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

### Campus Life

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

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

### Housing and Residence Life

*Director:* Christi Hartzler; HAB 101; 407-823-4663  
<http://www.housing.ucf.edu>

Regularly enrolled single students paying registration fees for a minimum of nine semester hours may apply for on-campus University-owned housing. The residential communities- Apollo, Libra, Lake Claire Courtyard Apartments, Nike, Hercules, and the Convocation Center Apartments- house approximately 4,300 students. On-campus residence halls offer double occupancy rooms with a shared bath in suite-style configurations. Single rooms with shared bath are available in the apartment facilities. Because of the limited amount of space, the University does not have a mandatory housing requirement. No on-campus accommodations are available for families or married couples.

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

Approximately 3,100 beds are reserved for new, incoming freshmen in specific facilities. Current residents occupy most of the remaining 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 academic term contract, when issued for the fall semester, is a two-semester obligation (fall and spring semesters). Summer session contracts are for the summer only and do not extend to include the fall semester. The Rosen College of Hospitality Management Apartments and the Convocation Center Apartments are annual contracts.

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

Applicants have the option of choosing one of several University meal plans. Specific information concerning University meal plans is available from UCF Dining Services, UCF PO Box 168017, Orlando, Florida, 32816. Web site: [www.ucfdining.com](http://www.ucfdining.com).

### Fraternity and Sorority Life

*Interim Director:* Belinda Boston; SU 154; 407-823-2072;  
(Greek Council Office, SU 154, 407-823-2072)  
<http://www.greeklife.sdes.ucf.edu>

The Fraternity and Sorority Life office is committed to providing the best possible fraternity and sorority experience for both students and the University community. This office fosters and promotes the development of national fraternities and sororities by providing advice, services, and programs to ensure all members engage in high-quality

undergraduate fraternal experiences that reinforce the organization's founding principles: scholarship, community service, campus involvement, and sisterhood/brotherhood. It encompasses small group living and more importantly, developmental programming for individuals, chapters, chapter alumni boards, house corporation officers, and collegiate governing boards (i.e., Panhellenic Council, Interfraternity Council (IFC), National Pan-Hellenic Council (NPHC), Diversified Greek Council (DGC), and the Greek Council).

Sorority or fraternity life can offer students a "home away from home," a source of job contacts, a scholastic support system, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently, 43 fraternities and sororities involve more than 3,100 students. Greek organizations give college men and women a chance to excel in any area they choose and include students of every race, religion, culture, and background.

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

### LINK - First Year Experience Program

*Assistant Director of Housing and Residence Life:* Jeff Novak  
*Jaelyn Bayer: Coordinator*  
Academic Village, Nike Community Office; 407-882-LINK,  
[www.link.ucf.edu](http://www.link.ucf.edu)

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

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

As an incentive to encourage first-year students to participate in these educational programs, New Knights receive points for every LINK program in which they participate. These points are known as LINK Loot. First-year students can acquire LINK Loot by participating in a LINK program. New Knights receive LINK Loot points by either swiping their UCF ID card or signing their name on an attendance sheet at beginning or end of each LINK program. First-year students can use their LINK Loots point to bid on prizes at the LINK Auction. The LINK Auction is held at the end of each fall and spring semester. A complete list of prizes is located on the LINK website at [www.link.ucf.edu](http://www.link.ucf.edu).

### Off-Campus Student Services (OCSS)

*Assistant Vice President and Director:* Jimmy Watson; HAB 101;  
407-823-6505; <http://www.housing.ucf.edu/ocsc>

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

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



the services offered by the Off-Campus Student Services Office, and to become acquainted with the many benefits the campus has to offer.

## UCF Regional Student Services

*Assistant Vice-President and Director:* A.J. Range  
PH 221; 407-823-3867

*Interim Director, Southern Region Campus Life:* Jim Smith  
*Director, Eastern Region Campus Life:* Diana L. Weidman

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

## Student Government

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

Student Government's purpose is to represent student views on issues affecting UCF and to promote progressive changes that improve campus life. In advocating better communication and understanding among the UCF family, Student Government also provides numerous services that affect student life. These services currently include computer labs, discount tickets to movie theaters and theme parks, free local calling on campus telephones, funding for legal services, recreational services and 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 benefiting the student body. The judicial branch oversees hearings concerning constitutional and legislative issues.

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

## Health Services

*Director:* Robert Faust; 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](http://www.shs.ucf.edu). Most office consultations and programs are provided without additional costs. Laboratory tests, x-rays, medications, and some supplies require additional but significantly reduced payments, which may be made with cash, credit card, personal check, or charged to the student's account.

Optional health and accident insurance may be purchased by response to the mailers or by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Center Business Office (at 407-823-1087). Please remember that optional health and accident insurance is not part of the Student Health Services program, but is designed to provide for health coverage needs that are beyond the scope of Student Health Services,

such as hospital referrals. Charges incurred outside the Student Health Center are the responsibility of the student.

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

When the Student Health Center is closed, students may 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:* Gary Morgan-Muskin; SU 207; 407-823-2223  
<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.

## LEAD Scholars Program

*Director:* Gary Morgan; SU 208; 407-823-2223  
<http://www.lead.sdes.ucf.edu>

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

The general goal of the LEAD Scholars Program is to prepare students to be effective community leaders in personal, professional, and civic communities. This goal is achieved through 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 relationship involving research and/or project development in their area of interest both on campus and in the community. Students are provided opportunities to work on project teams and special programs to develop their leadership skills. Specially structured community service projects are provided for students to enhance their community service development.

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

## Rosen College of Hospitality Management Campus Life

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

## Division Of Student Development And Enrollment Services

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

### Campus Faiths and Ministries

*Director:* Brad Crawford; RS 102; 407-823-5337  
<http://www.ucm.sdes.ucf.edu>

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

### Student Rights and Responsibilities

*Assistant Vice President and Director:* Patricia A. MacKown  
FC 155; 407-823-6960; <http://www.osrr.sdes.ucf.edu>

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

### Dispute Resolution Services

*Coordinator:* Patty Farris; FC 150; 407-823-3477  
<http://www.dr.sdes.ucf.edu>

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

### Student Conduct

*Assistant Director:* Dana Juntunen  
FC 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 annually publishes the student handbook, The Golden Rule, which contains more detailed information on student life. Copies may be obtained at SRC 154, or may be viewed on the web at <http://www.goldenrule.sdes.ucf.edu>. Students are urged to take advantage of the many services and educational programs available through the Office of Student Conduct and the Office of Student Rights and Responsibilities.

### Student Legal Services

*Director:* Patricia A. MacKown; FC 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:* Kerry Welch; SU 208; 407-823-6471  
<http://www.GetInvolvedUCF.com>

The mission of the Office of Student Involvement (OSI) is to provide quality programs, services, and leadership opportunities that enrich students' academic endeavors. Students and staff collaborate to explore various paths that encourage personal growth, promote civic responsibility, embrace differences, and connect students to the campus and the community. In OSI, the journey is the destination.

Toward this end, the Office of Student Involvement staff members oversee the registration and management of almost 400 registered student organizations (RSO's) as well as directly advising and coordinating the following student groups: Campus Activities Board (CAB), Fraternity and Sorority Life, Homecoming, Knights of the RoundTable (KoRT), Late Knights, Multicultural Student Center (MSC), Student Government Association (SGA), and Volunteer UCF (VUCF).

### Recreation and Wellness Center

*Director:* William Ehling; RWC; 407-823-2408  
<http://www.rec.ucf.edu>

The Recreation and Wellness Center offers cardiovascular training equipment, weight training equipment, group exercise rooms, basketball courts, an indoor track, sand volleyball courts, a swimming pool, and a climbing tower. The UCF Campus Wellness Center, also housed with RWC, sponsors a wide variety of health-related classes, lessons, and programs throughout the year. Playing fields and tennis courts adjacent to the building are available to students when not in use for scheduled events. The Recreation and Wellness Center is open to all students with a valid UCF ID. Memberships are available for non-students.

The Recreation and Wellness Center staff also operate the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft, and a nature trail. The facilities can be reserved for group activities by calling 407-823-5011.

### Intramural Sports

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

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

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

### Student Union

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

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

# UNDERGRADUATE ADMISSIONS



## Undergraduate Admissions

*Assistant Vice President:* Gordon D. Chavis, Jr., J.D.  
Progress Energy University Welcome Center  
407-823-3000; email: [admission@mail.ucf.edu](mailto:admission@mail.ucf.edu);  
<http://www.admissions.sdes.ucf.edu>

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

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

The office administers several programs for prospective students and parents, including daily tours and information sessions, open 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 Visit Experience

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

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

## Application for Admission

All interested applicants should complete the University of Central Florida "Undergraduate Admissions Application" and include the \$30 in U.S. Currency, non-refundable application fee. Students may also apply online at our web site, <http://www.admissions.sdes.ucf.edu>. Students should apply **several** months in advance of an anticipated start date. Mail admission applications to: Undergraduate Admissions Office, University of Central Florida, P.O. Box 160111, Orlando, FL 32816-0111. Questions concerning admission requirements and applications should be forwarded to the same address or by calling 407-823-3000.

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

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

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

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

Those enrolled students who have not submitted official completed records by the deadline will be placed on administrative hold. Students with these incomplete records will not be permitted to register for a future term 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 should request and complete a reactivation form by the published application deadline date. This form is available in the Undergraduate Admissions Office, online, or by calling 407-823-3000. This process reactivates the application only; additional official credentials may be required. Admission for one term does not guarantee admission for a future term.

## Limited Access Programs

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

## Orientation

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

## Admission Categories

Students may submit applications to the University for one of the following categories:

- A. Freshman (First-Time-In-College: FTIC)
  - B. Dual Enrollment (includes early admission and dual enrollment, on- or off-campus)
  - C. Transfer
  - D. Second Bachelor's Degree
  - E. Transient (one term enrollment only, not from a Florida public university)
  - F. Limited Non-Degree Seeking
- Upper Division Transfer students may also apply to one of many regional campus sites. Please refer to the application.

## Freshman Applicants

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

### High School Diploma

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

### Entrance Examination Scores

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

### High School Academic Units and Grade Point Average

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

Academic Subjects	Units Required
■ English (three of which must have included substantial writing)	4
■ Mathematics (at or above the Algebra I level)	3
■ Natural Science (two of which must have included substantial laboratory requirements)	3
■ Social Science (included: history, civics, political science, economics, sociology, psychology, and geography)	3
■ Foreign Language (both credits must be in the same language)	2
■ Additional academic electives from the above five subject areas and courses recommended by the Florida Assn. of School Administrators, or other groups, and courses recommended by the Articulation Committee and approved by the Department of Education	3
<b>Total Units</b>	<b>18</b>

## Applicant Eligibility

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

If the High School GPA is:	Minimum test scores must be:	
HS GPA	SAT	or ACT
2.0	1140	25
2.1	1110	24
2.2	1090	23
2.3	1060	22
2.4	1030	22
2.5	1010	21
2.6	1000	21
2.7	990	21
2.8	980	20
2.9	970	20
3.0	*	*

\* 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:

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

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

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

### Transfer Applicants

UCF welcomes transfer applications to the University. Students should submit either the University of Central Florida Undergraduate Admissions Application or apply online at <http://www.admissions.sdes.ucf.edu/underaplink.asp>, and arrange to have official transcripts sent from all colleges attended. The Undergraduate Admissions Office computes a grade point average

(GPA) for each institution attended, as well as a cumulative GPA on all college courses attempted. This computation does recognize plus or minus grades effective Fall 2001, but only recognizes grade forgiveness when it is used as part of an awarded State articulated Associate in Science degree or an Associate in Arts degree from a Florida public community college or Florida public university. Applicants must have a current minimum GPA of 2.5, and must have a cumulative minimum GPA of 2.5 and be in good standing as a degree seeking student at the last institution attended to be considered for admission to UCF. Meeting these minimum requirements **does not** guarantee admission.

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

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

#### Transfer Applicants With Fewer Than 60 Credit Hours

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

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

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

- At least 60 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):

- Admission to one of the eleven state universities, except to "limited access" programs (programs that have additional admission requirements);
- Acceptance of at least 60 credit hours by the state universities toward the baccalaureate degree;
- Transfer of equivalent courses under the statewide Course Numbering System;
- Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate);
- No additional General Education Core requirements;
- Advanced knowledge of selection criteria for limited access pro-

# Undergraduate Admissions

grams; and

7. Equal opportunity with native university students to enter limited programs.

Should any guarantee be denied, students have the right of appeal through the Office of Undergraduate Admissions and the Admissions and Standards Committee.

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

Undergraduate transfer applicants who desire to be admitted as upper division students must have met, at least, all of the following requirements:

- A minimum of a 2.5 GPA and 60 semester hours of academic course work;
- The English and Mathematics requirements of the Gordon Rule; and
- A minimum of eight semester hours of college instruction in a single foreign language. This requirement applies to those students without the required two units of a single foreign language in high school.

Meeting these minimum requirements does not guarantee admission.

## Second Bachelor's Degree Applicants

Second Bachelor's Degree applications are processed by the Undergraduate Admissions Office or the Registrar's Office.

Guidelines for which office students should make application to are outlined as follows:

- Students who **have never attended** the University of Central Florida as degree seeking undergraduate students must apply to the **Undergraduate Admissions Office**. Students should complete the regular undergraduate admissions application.
- Students who **have attended** the University of Central Florida as a degree-seeking undergraduate student should apply through the **Registrar's Office**. These students complete the "Readmission Application" form.

**Credits From a Previous Baccalaureate Degree**

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

## Transient Student Applicants

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

## Limited Non-Degree Seeking Applicants

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

Programs using the Limited Non-Degree Seeking status include:

- High school dual enrollment
- Soldiers-to-scholars
- Continuing education
- Regional campuses
- Off-campus credit
- Teacher certification or re-certification

Students registering for classes in the Limited Non-Degree Seeking status are subject to the following regulations:

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

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

## International Applicants

The University of Central Florida is authorized under federal law to enroll students on non-immigrant visas. All international candidates applying for admission to UCF must submit a University of Central Florida "Undergraduate Admissions Application," or apply online at <http://www.admissions.sdes.ucf.edu/underaplink.asp>. Because of additional processing time needed for non-immigrant students joining UCF on F-1 or J-1 Visas, those students should submit the application and all required academic documentation by the international admissions deadlines. These students must also complete and submit the required financial and immigration documents by the deadline. The deadlines for Fall semester are **February 1** (for students abroad) and **March 1** (for transfer students); for Spring semester, **July 1** (for student abroad) and **September 1** (for transfer students). The University does not accept admissions applications for Summer semester from F-1 and J-1 applicants from abroad or transferring from other U.S. institutions:

- Submit the completed UCF admissions application form with the required \$30.00 application fee (check or money order in U.S. currency). An online application is available on our web site at <http://www.admissions.sdes.ucf.edu/underaplink.asp>.
- Students who attended an international secondary school that uses a grading and evaluation system different from the U.S. system will need a document-by-document evaluation of the secondary school record in English. This record, which should include performance evaluations, grades for work completed over a period of at least three years, as well as any certificates earned, should be sent to one of the agencies listed below. They will translate it if necessary, evaluate it, and then send their evaluation directly to UCF. A grade point average should be calculated and must appear on this evaluation.
- If the student has attended any international universities, an English translation and evaluation of work completed at each institution will be necessary. Transcripts should be sent to one of the agencies below for a course-by-course evaluation. Please note that if 60 or more 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, P.O. Box 248233, Coral Gables, FL 33124, (305) 273-1616	World Education Services P.O. Box 745, 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 a F-1 or J-1 visa offered admission shall, **prior** to registration for classes, submit proof of required health insurance coverage with the Student Health Center to comply with the State of Florida mandatory health insurance requirement for F-1 and J-1 students. Minimum coverage limits can be obtained from the Student Health Center. Written proof of insurance must also be provided. If the insurance is issued by a foreign carrier or underwriter, a statement must be provided in English to assure that the policy meets the State of Florida minimum levels of insurance coverage. The University reserves the right to refuse registration to any international student on F-1 or J-1 visas who fails to comply with this insurance requirement or who is unable to supply satisfactory proof of insurance. The University also reserves the right to withdraw from classes any international student who fails to maintain insurance coverage, cancels insurance coverage, or avoids in any way the responsibility to comply with the insurance requirement.

### Non-Academic Admission Clearances

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

### Transfer Credit: All Applicants

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

### Accredited Institutions

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

- New England Association of Schools and Colleges;
- Middle States Association of Colleges and Secondary School, Commission on Institutions of Higher Education;
- North Central Association of Colleges and Schools, Commission

on Colleges and Universities;

- Northwest Association of Secondary and Higher Schools, Commission on Higher Schools;
- Southern Association of Colleges and Schools; and
- Western Association of Schools and Colleges Accrediting Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges.

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

All college level credits earned for which official transcripts have been submitted will be compiled into a "Transfer Summary Report" (TSR) soon after the student is offered admission. Some credits listed on the TSR may not be applicable toward graduation course requirements. The TSR will be the basis for constructing a "SASS Degree Audit," which applies earned credits to the intended degree program. The "SASS Degree Audit" provides the student with an assessment of which degree requirements have been met and what remains to be satisfied. Although all college-level course work transferred from a 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*.

# FINANCIAL INFORMATION



## Office of Student Financial Assistance

*Executive Director:* Mary H. McKinney  
Millican Hall, Room 120  
Switchboard: 407-823-2827  
Appointment: 407-823-5285  
Fax: 407-823-5241  
E-mail: [finaid@mail.ucf.edu](mailto:finaid@mail.ucf.edu)  
Web site: <http://finaid.ucf.edu>

### Office Hours:

Monday: 9:00am - 7:00pm  
Tuesday, Wednesday, Friday: 9:00am - 5:00pm  
Thursday: 1:00pm - 7:00pm  
(Hours subject to change during holidays and semester breaks.)

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

### Student Eligibility

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

### Application Priority Deadline Date

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

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

### Application Procedures

- The FAFSA can be filed electronically at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). A link is provided on the Web site and on My.UCF.edu
- 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;



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

**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. The processed results of the FAFSA must be received by UCF from the federal processor by March 1 to meet our application priority deadline date;
- 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 PID on all documents submitted. (Do not submit originals; documents will be shredded after scanning.);
- Maintain a current e-mail and mailing address on myUCF at all times at <https://my.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 does not obligate the student to accept 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 the appointment line, 407-823-5285, to meet with a counselor;
- Comprehensive information can be found on the Web site: <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 2006-2007**

	Housing Status	
	Living with Parent	Other
<b>(Full-time Fall/Spring)</b>		
Tuition/Fees	\$ 3,282.00	\$ 3,282.00
Books/Supplies	\$ 888.00	\$ 888.00
Room/Board	\$ 4,454.00	\$ 8,528.00
Personal Exp.	\$ 2,210.00	\$ 2,210.00

Transportation	\$ 1,592.00	\$ 1,592.00
<b>Total (In State)</b>	<b>\$12,426.00</b>	<b>\$16,500.00</b>
Non resident Tuition/Fees	\$12,868.00	\$12,868.00
<b>Total (Out of State)</b>	<b>\$25,294.00</b>	<b>\$29,368.00</b>

**Financial Aid Programs Available at UCF**

Financial aid comes in many forms, such as grants, loans, employment, waivers, and scholarships. The Program Eligibility Charts on the Web site under "Receiving Aid" list the various programs and their specific enrollment requirements. Detailed information for each program can also be found on the Web site under its particular title. Grants are considered gift aid and do not have to be repaid. Only undergraduate students who have not previously received a bachelor's degree and who demonstrate financial need are eligible for grant programs. Awards are based on the amount of available funds and the number of eligible applicants. To be considered for grant awards, students must meet eligibility requirements and have a valid FAFSA on file with the office.

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

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

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

**Award Notification**

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

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

Admission to UCF must be finalized with no contingencies. Students must be classified as degree seeking.

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

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

**Deferrals of Tuition and Fees**

Financial aid awards will normally result in a deferment of tuition and fee payments. Deferments allow for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid 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 in sufficient hours for the financial aid program/s. Please refer to the Program Eligibility Charts on the Web site for more information. Students should use myUCF 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 are never attended.

## Financial Information

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

### Disbursements

Financial aid disbursements begin the second week of each term. Students should be aware of this, so they are prepared to use their personal savings for anticipated expenses such as books and supplies at the beginning of the term. The Short Term Advance is available for students to help with these expenses. 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 listed on myUCF.

### Satisfactory Academic Progress (SAP)

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

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

- Complete a minimum of 70% of the attempted hours taken during the course of the year. Compliance of this requirement is checked at the end of each spring term. If students fail to meet this requirement or were not enrolled during the last monitoring period (fall/spring), a review of total hours taken at UCF will occur to determine if a 70% completion rate was attained for all attempted UCF course work. If students fail to pass both of these reviews, the student will be placed on Satisfactory Academic Progress cancellation status, effective the following academic year, beginning fall term. Students on probation must meet standards each term.
- Graduate within the number of hours allowed by the Satisfactory Academic Progress policy. Students are allowed a specific number of UCF attempted hours, based on their academic level at the time of admission to UCF. (see chart next page)
- For detailed SAP policy information, please refer to the Office of Student Financial Assistance Web site at: <http://finaid.ucf.edu>.

### Re-establishing Eligibility after Cancellation

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

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

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

To appeal, the student must:

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

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

### Transfer Students

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

### Independent Students

You will be classified as independent for financial aid purposes only if at least one of the following applies:

- you are 24 years of age or older by December 31 of the award year;
- you are married;
- you are or will be enrolled in a master's or doctoral program (beyond a bachelor's degree) during the school year;
- you have children who receive more than half their support from you;
- you have dependents (other than your children or spouse) who live with you and who receive more than half their support from you and will continue to receive more than half their support from you through June 30th of the school year;
- you are an orphan or ward of the court (or were a ward of the court until age 18); or
- you are a veteran of the U.S. Armed Forces. ("Veteran" includes students who attended a U.S. service academy and who were released under a condition other than dishonorable.)

### Dual Enrollment

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

disbursed:

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

Dual enrolled students must make arrangements to pay tuition and fees at the visited school since there is no system for deferral of those tuition and fees. In addition, it is the student's responsibility to insure that the visited school promptly provides UCF with academic transcripts, confirming that the attempted hours are completed. Transcripts or grades should also be submitted to the Office of Student Financial Assistance. This will help avoid academic progress problems. Students who expect to receive funds under any of the federal loan programs must enroll for a minimum of six undergraduate hours at UCF in UCF classes to meet eligibility requirements. Students may not receive financial aid from two institutions at the same time. Students must decide which of the two institutions is the primary school at which they are degree seeking and apply for aid there. Any inaccuracy will result in a mandatory repayment to one of the two schools for the overpayment.

### Over Awards

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

### Refunds and Return of Title IV Funds

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

### Professional Judgment

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

### Student 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

### General Information

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

The Student Accounts Office is responsible for:

- Tuition and Fee Assessment/Refunds (Student Accounts, MH107)

## Financial Information

- Processing Payments (Cashier's Office)
- Overdue payment and institutional loans collection (Loans and Collections)

### Schedule of Fees\*

([www.iroffice.ucf.edu/character/current\\_tuition.html](http://www.iroffice.ucf.edu/character/current_tuition.html))

**\*Note: 2006-2007 tuition and fees had not been established at the time of this publication. Rates for the 2006-2007 academic year will be available in early July 2006. Fees are subject to change without notice.**

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

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

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

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

### Student Financial Responsibility Statement

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

### Payment Procedures

Payment must be received or postmarked no later than the fee payment deadlines specified to be considered on time. Non-cash payments (checks and money orders) placed in the 24-Hour Depository by the official fee payment deadline will be considered on time.

#### Acceptable forms of payment:

Cash (Cashier's Office)  
Checks (Cashier's Office, E-Pay, or Mail)  
Credit cards (Cashier's Office, or E-Pay)

## 2005-2006 Fee Schedule\*

Fees Per Credit Hour	Florida Resident		Non-Florida Resident	
	Undergraduate	Graduate	Undergraduate	Graduate
Matriculation Fee	\$71.57	\$201.54	\$71.57	\$201.54
Non-Resident Fee	0.00	0.00	\$416.88	\$640.44
Building Fee	\$2.32	\$2.32	\$2.32	\$2.32
Capital Improvement Fee	\$2.44	\$2.44	\$2.44	\$2.44
Financial Aid Fee	\$3.57	\$10.07	\$3.57	\$10.07
Non-Res Financial Aid Fee	0.00	0.00	\$20.84	\$32.02
UCF Activity and Svc Fee	\$9.37	\$9.37	\$9.37	\$9.37
UCF Athletic Fee	\$11.09	\$11.09	\$11.09	\$11.09
Transportation Access Fee	\$4.34	\$4.34	\$4.34	\$4.34
Total Per Hour Fees	\$104.70	\$241.17	\$542.42	\$913.63

## 2005-2006 Repeat Course Schedule\*

Fees Per Credit Hour	Florida Resident		Non-Florida Resident	
	Undergraduate	Graduate	Undergraduate	Graduate
Matriculation Fee	\$71.57	\$201.54	\$71.57	\$201.54
Non-Resident Fee	0.00	0.00	\$416.88	\$640.44
Building Fee	\$2.32	\$2.32	\$2.32	\$2.32
Capital Improvement Fee	\$2.44	\$2.44	\$2.44	\$2.44
Financial Aid Fee	\$3.57	\$10.07	\$3.57	\$10.07
Non-Res Financial Aid Fee	0.00	0.00	\$20.84	\$32.02
UCF Activity and Svc Fee	\$9.37	\$9.37	\$9.37	\$9.37
UCF Athletic Fee	\$11.09	\$11.09	\$11.09	\$11.09
Transportation Access Fee	\$4.34	\$4.34	\$4.34	\$4.34
Repeat Course Fee	\$170.22	N/A	\$170.22	N/A
TOTAL PER HOUR FEES	\$274.92	N/A	\$712.64	N/A

## Other Fees: Resident and Non-resident \*

UCF Campus Card Fee (per academic year)	\$10.00
Campus (ID) Card Replacement Fee	\$15.00
Health Fee (per term)	\$6.60 per credit hour
Minimum charge:	\$36.90
Maximum charge:	\$99.00
Material and Supply Fee (per term; approved courses only – varies per course)	\$5.00-\$45.00
Equipment Fee (per term, for use of equipment) Business majors.....Full time: \$15.00; Less than full time: \$7.50	
Equipment Fee (per term, for use of equipment) Music majors.....Full time: \$70.00; Less than full time: \$35.00	
International Student Service Fee (per term)	\$50.00
Late Registration Fee (students who initially register during Late Registration)	\$100.00
Late Payment Fee (failure to pay, defer or present waiver for fees by payment deadline)	\$100.00
Returned Check Fees (checks returned for any reason):	
Check amounts up to \$50.00	\$25.00
Check amounts over \$50.00 and less than \$300.00	\$30.00
Check amounts over \$300.00	\$40.00 or 5%, whichever is greater

**Zero Hour Registration:** Students registering for zero credit hours pay for a minimum of one credit hour at the level they are classified. Fees are subject to change without notice.

Note: 2006-2007 tuition and fees were not available at the time of publication. Rates for the 2006-2007 academic year will be available in early July, 2006.

E-Pay -- <https://my.ucf.edu> -- E-Check or credit card -- nonrefundable \$10 convenience fee per transaction  
Mail -- Do not send cash -- Please include the student's PID on checks or money orders.  
Address payments to: University of Central Florida  
P.O. Box 918449  
Orlando, FL 32891-8449

### Payment Locations & Hours:

Cashier's Office - Main Campus - MH110 -- Mon & Thurs 8:30 am to 7:00 pm and Tues, Wed & Fri 8:30 am to 4:00 pm (407) 823-2614  
Cashier's Office - Main Campus - John T. Washington Center-- Mon through Fri 8:30 to 4:00 (407)823-0828/0829  
Cashier's Office - Brevard Campus (BCC Cocoa Campus) - BLDG 11 Room 204-- Mon through Fri 8:00 am to 3:30 pm (321) 433-7615  
Cashier's Office - Daytona Beach Room 105- Mon through Thurs 8:30 am to 4:00 pm and Fri 8:00 am to 12:00 noon (no cash) (386) 506-4073  
Cashier's Office - Palm Bay Room 115- Mon through Fri 8:30 am to 4:00 pm (no cash) (321) 433-5187/5188  
24-Hour Depository - Millican Hall at Reflection Pond Entrance - (no

cash)

Cashier's Office- Rosen College Campus Room 201A Hours to be determined.... (no cash/debit cards) (407)903-8187

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

### Other Forms of Payment

Tuition and fees may be partially or completely paid by Financial Aid, Florida Prepaid, Tuition Waivers, or Department Grants. The student is responsible to pay any amount that is not covered by these types of payments by the fee payment deadline as described under Payment Procedures.

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

### Florida Prepaid College Plan

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

The standard plan will pay \$79.90 per credit hour (graduate or undergraduate level) for the 2005-2006 academic year. The plan does not cover the local fees of \$24.80 per credit hour, the health fee, material/supply fees, or the UCF ID Service and Access fee. The local fee plan, which is indicated on the Florida Prepaid Tuition Plan card, will cover \$100.36 per credit hour and the health fee. For further details on the Florida Prepaid Tuition Plan please visit our website [www.fa.ucf.edu](http://www.fa.ucf.edu) and click Forms. Then click on Student Services. Scroll down to Florida Prepaid Tuition Plan Procedures. Note: the 2006-2007 tuition rates had not been established at the time of publication.

### Tuition Waivers

#### State of Florida Employees Tuition Waiver

Full-time state employees may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of tuition and fees. State Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar [www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php) for each term. Should the employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will be invalid and the employee will be liable for all applicable fees. The tuition waiver cannot be used for courses that have increased costs. These courses include, but are not limited to, continuing education courses, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, practicums, third-attempt repeat courses and 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 [www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php) 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 [www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php). Students may list alternate courses on their waiver form to substitute for preferred courses that are completely filled. Courses that are not listed on the waiver form cannot be waived.

#### UCF Employees Tuition Waiver

All full-time general Faculty, Administrative and Professional (A&P), and Staff (formerly called USPS) employees of the University of Central Florida who are employed in an established position on the date 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 tuition and fees. UCF Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar [www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php) for each term. Should the UCF

employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF employee will be liable for all applicable fees. Any UCF employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term's fee payment deadline. See the Academic Calendar [www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php) for each term for the fee payment deadlines. **Prior to enrolling** into courses each term, refer to the Human Resources web site at [www.hr.ucf.edu/web/forms/benefits/tuitionwaiver.pdf](http://www.hr.ucf.edu/web/forms/benefits/tuitionwaiver.pdf) for eligibility requirements, course restrictions, and the waiver application form. Students are encouraged to list alternate courses on their waiver form to substitute for preferred courses that are completely filled. Courses that are not listed on the waiver form cannot be waived.

### Tuition and Fees for Senior Citizens

Persons 60 years of age or older who meet Florida residency requirements may register to audit classes on a space-available basis without payment of tuition and application fees. Registration is on a **space-available basis**; see the appropriate term's Academic Calendar [www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php) for registration dates and times. The tuition fee waiver cannot be used for courses that require increased costs (such as thesis, dissertation, and directed individual study). A "Florida Residency" Affidavit is required to establish Florida residency. A completed "Student Health History" form must be filed prior to registration. Inquiries should be directed to the Registrar's Office (MH 161; Telephone: (407) 823-3100).

### Refund of Fees

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

#### Full Refund Eligibility

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

#### Partial Refund (25%)

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

#### Exceptional Circumstances

Refunds for exceptional circumstances are available upon 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.

### Direct Deposit

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

### Past Due Accounts

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

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

### Late Fees

Late Payment Fees apply to students who do not pay their fees or

## Financial Information

who do not pay their fees (or obtain a full fee deferment) by the payment deadline. The Late Payment Fee is \$100 per semester.

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

### Fee Appeals

Students who desire to appeal a Late Registration Fee and/or a Late Payment Fee may make their appeal to the Fee Appeals Committee by initiating a student petition (Form 41-561). This form can be obtained online at . Click Forms, Student Services, and Fee Appeals Petition. Students must submit their petitions to Student Accounts (MH 107) and may appear before the Committee (not mandatory). Forms faxed to Student Accounts should be addressed Attn: Fee Appeals (407) 823-6476.

### Holds

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

### Florida Residency for Tuition Purposes

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

To qualify as a Florida resident for tuition purposes in accordance with State regulations, the student must be a United States citizen, resident alien, parolee, Cuban national, Vietnamese refugee, or other refugee or asylee so designated by the United States Citizenship and Immigration Service,

#### And

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

#### And

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

1. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:
  - a. Declaration of Domicile (**Note:** the Declaration of Domicile will support a claim of 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 even though no one of these criteria, if taken alone, will be considered as conclusive evidence of domicile:

- a. Declaration of Domicile;
- b. Florida voter registration;
- c. Florida vehicle registration;
- d. Florida driver license;
- e. Proof of real property ownership in Florida (e.g., deed, tax receipts);
- f. Verification of permanent employment in Florida by the employer, employment records, or other employment-related documentation (e.g., W-2 paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment. The document must show 12 consecutive months of Florida employment prior to the first day of classes of the term for which the student requests Florida residency;
- g. Proof of membership in or affiliation with community or state organizations or significant connections to the State;
- h. Proof of continuous presence in Florida during periods when not enrolled as a student;
- i. Proof of former domicile in Florida and maintenance of significant connections while absent;
- j. Proof of reliance upon Florida sources of support;
- 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 judgments 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.



# ACADEMIC ADVISING

## Responsibilities

Academic advising is a process that assists students in the clarification of life goals and the translation of these goals into educational plans. It provides assistance to students as they explore educational opportunities and develop educational plans and objectives.

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

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

## Freshman (First Time in College - FTIC)

Every incoming Freshman is assigned a professional first year academic advisor in one of the five offices listed below. These advisors also collaborate with the University's colleges, and schools and link students to advisors in various academic programs. The assignment of a first year advising office will be based on the specialized services of each program and the 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:

- Attend a mandatory Orientation that will provide:
  - Initial academic advising in a group setting and preparation for the first semester, including schedule planning and registration
  - An assessment of high school grades, entrance and placement test scores, and AP, IB and CLEP credit
  - An awareness of expectations for success at UCF
  - Information about key academic policies and important deadlines
- Connect to their first year advising office during the first semester according to the following designated priority order:
  - Academic Services for Student-Athletes (ASSA)** -for student athletes (WDSC 110)
  - Student Academic Resource Center (SARC)** -for participants in the College Achievement Program (CAP) or Pegasus Success Program (PH 113)
  - Multicultural Academic and Support Services (MASS)** -for all students in the SOAR program (PH 102)
  - Transfer and Transition Services (TTS)** -for freshman students entering UCF with 45 or more college credits earned through accelerated mechanisms from AP, IB, CLEP, and/or dual enrollment courses (PH221)
  - 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*.
- Participate in programs and advising activities that will promote a successful transition from high school to the university.
- Transition to an academic advising office within the college of the student's chosen major at the beginning of the sophomore year.

## The Burnett College of Biomedical Sciences

### New students will:

Meet with the Office of Student Service and Advisement (OSSA)

advisors in group settings during Orientation to:

- Discuss degree program requirements;
- Understand career options of the major program of study; and,
- Plan an appropriate first semester class schedule.

### Continuing students will:

- Meet with an advisor in the Office of Student Services and Advisement (OSSA) every semester to check progress toward graduation and selection of program courses;
- See their faculty advisor during the first few months of each semester to check on possible career and research opportunities.
- See an advisor in the Office of Student Services and Advisement (OSSA) if pending majors in limited-access Medical Laboratory Sciences program during the first few weeks of each semester to check progress toward eligibility for application to the major;
- View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through (missing a word)?
- Register at the scheduled appointment time. Complete all schedule changes by the end of the published add/drop period; and,
- File an "Intent to Graduate Form" in the Department of Molecular Biology and Microbiology, Office of Student Services and Advisement (OSSA), by the end of the term prior to the term in which graduation will occur.

## 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:

- 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;
- Meet with their academic advisor in the department of their major prior to registration.
- 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;
- Continue to register for classes online; and,
- Check their "Fee Invoices/Schedule" to ensure accuracy of class schedule.
- Attend any mandatory Honors advising appointments.

## Pre-Health Professions Advisement

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

## Pre-Health Professional Planning

Preprofessional advisement deals primarily with application and admission procedures.

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

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

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



Additionally, prudent use of elective hours in the curricula will permit other appropriate pre-health professions courses to be obtained. All pre-health professions students are strongly encouraged to participate in the activities of one or more of the student health related organizations.

### Curricula Guidelines

All pre-health professions students are strongly encouraged to enroll in SLS 2311 (Overview of Select Medical Careers) the first Spring semester they are enrolled. This course provides a broad exposure to the various four-year health professions. In addition, the entire 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.

## College of Arts and Humanities

Although students may have several advisors for various reasons, majors within the College of Arts and Humanities 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 Humanities 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;
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 myUCF Class Schedule Search is also available online at <https://my.ucf.edu> each semester, and a SASS Degree Audit is available on myUCF. Questions about the degree audit should be directed to OASIS unless specific to the major requirements;
3. Continue to register for classes through myUCF. Special assisted registration (e.g., overrides, independent study) must be handled in OASIS;

4. Refer to OASIS any questions pertaining to GEP, CLEP, AP credit, Gordon Rule, university credit hour requirements, as well as policies and procedures; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

## College of Business Administration

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

### New students will:

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

### Continuing students will:

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

## College of Education

### New students will:

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

### Continuing students will:

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

### College of Engineering and Computer Science

#### New students will:

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

#### Continuing students will:

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

### College of Health and Public Affairs

#### New students will:

Meet college advising representatives in **group** settings during Orientation to:

1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.
4. If the student is accepted in a major, he or she should check in the department of their major for their assigned faculty advisor during the first few weeks of the semester.

#### Continuing students will:

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

### Rosen College of Hospitality Management

#### New students will:

Meet college advising representatives in **group** settings during orientation to:

1. Discuss degree program requirements;
2. Understand career options and major programs of study;
3. Plan an appropriate first semester class schedule; and,
4. Review a SASS Degree Audit through myUCF.

#### Continuing students should:

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

### College of Sciences

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

### Regional Campus System

New transfer students may meet with a professional or faculty advisor prior to applying to UCF and at any time while enrolled to discuss programs and requirements. Students will meet with faculty/professional advisors in a group setting during orientation to:

1. Discuss degree program requirements;
  2. Understand career options of the major program of study; and
  3. Plan an appropriate first semester class schedule.
- Any student who has not been awarded an AA from a Florida public community college or state university and has not completed the UCF General Education requirements should make an appointment as soon as possible with an advisor at the appropriate UCF Regional Campus System location (or the Orlando Campus) to clarify University policies that will affect the student's status and graduation. Continuing students may meet with their advisors on an on-going basis. For a list of the academic programs available through the Regional Campus System, see 'UCF Regional Campuses' within the "University of Central Florida" chapter of this *Undergraduate Catalog*.

# TRANSFER SERVICES



## Transfer and Transition Services

Director: Charlene A. Stinard, PH 221  
Orlando, FL 32816-0123  
407-823-5959 or Fax: 407-823-3955  
E-mail: [tsservices@mail.ucf.edu](mailto:tsservices@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 Director of Transfer and Transition Services.

## Where Can I Go For Help?

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

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

- Accurate and current information about university programs and policies including entrance and exit requirements, as well as information concerning:
- Transfer concerns and questions;
- Course equivalencies;
- Common program and course prerequisites;
- Critical academic and transfer policies;
- Foreign language requirements;
- UCF critical dates and deadlines;
- General advising and referral for transfer students before and after they enroll at UCF;
- Individual appointments to discuss transfer issues;
- Written articulation agreements between the university

and community colleges;

- Advising for currently enrolled transitioning students who are undeclared majors, undecided or changing majors, and freshmen with 45+ credit hours;
- Transfer Peer Mentor advising services.

## How Can a Community College Counselor or Advisor Help Me?

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

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

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

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

If you do not complete an A.A. at a Florida public community college or university, you must complete UCF's general education requirements, which may be considerably different from your previous institution's requirements. In addition, no grade forgiveness will be honored. All attempted credits will be averaged into your GPA for admission purposes. If you have met all the A.A.

## Transfer Services

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.

Admission requirements have changed for students entering the College of Education. The General Knowledge Test (GKT) of the Florida Teacher Certification Examination (FTCE) may now be used as both an admission and graduation requirement for state-approved teacher preparation programs.

The CLAST will continue to be an admission option for students, but does not satisfy graduation requirements.



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

### What Are the Foreign Language Requirements?

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

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

### How Will My Credits Transfer?

All college level credits earned for which official transcripts have been submitted will be compiled into a Transfer Summary Report (TSR), which is available online. The TSR

## Transfer Checklist

<b>Before Completing the A.A.</b>		<b>Immunization</b>	
___/___/___	meet with counselor or advisor for graduation check	___/___/___	date student health form submitted
___/___/___	complete application for graduation	Y ___ N ___	need immunizations
<b>Application for Admission</b>		<b>Foreign Language Requirements</b>	
___/___/___	date submitted	Y ___ N ___	2 years/units earned in high school
___/___/___	date admission status checked at <a href="https://My.UCF.edu">https://My.UCF.edu</a>	Y ___ N ___	8-10 credits earned at the college level
___/___/___	date of acceptance	Y ___ N ___	credits to be taken at the university
<b>Transcripts (original transcript from all institutions attended)</b>		Y ___ N ___	exempt from foreign language admission requirements
___/___/___	date transcripts sent from all current and prior institutions	<b>Note:</b> Although American Sign Language may be used to satisfy the UCF admission requirement, it <b>may not</b> satisfy graduation requirements of the specific major.	
___/___/___	date final transcript sent after term completed	<b>Program (Major) Requirements</b>	
<b>Financial Aid/Scholarship</b>		Y ___ N ___	limited access application
___/___/___	date financial aid application (FAFSA) sent	Y ___ N ___	completed prerequisites
___/___/___	date financial aid notification received from UCF	Y ___ N ___	met grade point average (GPA) requirements
___/___/___	date of SCHOLARSHIP application mailed or transfer notice sent to appropriate office	Y ___ N ___	met minimum cumulative GPA for admission to program of study
___/___/___	date of SCHOLARSHIP application response	Y ___ N ___	met cumulative GPA in courses taken for program of study
<b>Housing</b>		Y ___ N ___	met grade requirements for designated courses
___ on-campus ___ off-campus		Y ___ N ___	audition, portfolio, additional admission requirements met
___/___/___	date application sent (include deposit when required)	Y ___ N ___	CLAST exam or alternatives
___/___/___	date accepted	<b>Orientation:</b>	
		___/___/___	orientation date at UCF

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 myUCF (<https://my.UCF.edu>). A late payment fee of \$100 will be assessed on all accounts not paid or deferred by each term's payment deadline. Please note that you will not be sent a bill. It is up to you to view your invoice through myUCF. Payments may be made at the Cashier's Office, Millican Hall, room 110, or mailed to:

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

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

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

## Can Transfer Students Participate in The Burnett Honors College?

Qualified students who transfer to UCF with an honors A.A. from a Florida public community college that has signed an articulation agreement with The Burnett Honors College will be admitted into University Honors with junior standing. Community college transfers and other students who have completed their general education requirements may participate in the Honors in the Major program through the completion of departmental honors requirements, including an original research project. Transfer students who apply for admission to departmental honors programs must have a minimum

GPA of 3.5 in their major. Successful completion of either honors program will be noted on your transcripts and diploma. For more information, call 407-823-2076 or visit the honors web site at <http://honors.ucf.edu>.

## Transfer Tips:

### Office Visits for Transfer Advising

- Students are encouraged to contact the Office of Transfer and Transition Services with questions or to schedule an appointment to meet with an advisor. Advisors are available Monday - Friday, 8:30 a.m. - 4:30 p.m.
- Transfer students accepted to UCF who are undeclared majors or are undecided about their major should contact Transfer and Transition Services prior to orientation for advisement.

### Students should:

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

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

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

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

es 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**.



# UNDERGRADUATE DEGREE REQUIREMENTS

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

## General Education Program (GEP)

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

Courses that fulfill the General Education Program requirements are specified, but in some cases an advanced course in the same discipline may be substituted for GEP requirements. These advanced courses, approved by the Faculty Senate Undergraduate Common Program Requirements Committee, are listed in the section identified as "Alternate Courses: General Education Program." Students should consult with an advisor before enrolling in an advanced course. Undergraduate students who have not completed requirements for the Associate of Arts degree and who desire to transfer to another Florida public university can have their transcripts indicate "General Education Requirements Met" upon written request, if they have completed UCF's GEP requirements with a GPA of 2.0 or better. 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

### Communications Foundation

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

### Cultural and Historical Foundation

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

### Mathematical Foundation

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

### Social Foundation

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

## 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.)

Satisfactorily complete one course in each of the twelve numbered areas. . . . . 36 hours

A. Communication Foundation . . . . . 9 hours

1. ENC 1101 English Composition I <sup>1, 2</sup> . . . . . 3(3.0)
2. ENC 1102 English Composition II PR: ENC 1101 <sup>1, 2</sup> . . . . . 3(3.0)
3. SPC 1600C Fundamentals of Oral Communication or . . . . . 3(3.0)  
 SPC 1016 Fundamentals of Technical Presentation . . . . . 3(3.0)  
 COM 1000 Communication . . . . . 3(3.0)

B. Cultural and Historical Foundation . . . . . 9 hours

1. EUH 2000 Western Civilization I <sup>2</sup> . . . . . 3(3.0)  
 EUH 2001 Western Civilization II <sup>2</sup> . . . . . 3(3.0)  
 HUM 2210 Humanistic Tradition I <sup>2</sup> . . . . . 3(3.0)  
 HUM 2230 Humanistic Tradition II <sup>2</sup> . . . . . 3(3.0)  
 AMH 2010 U.S. History: 1492-1877 <sup>2</sup> . . . . . 3(3.0)  
 AMH 2020 U.S. History: 1877-present <sup>2</sup> . . . . . 3(3.0)  
 WOH 2012 World Civilization I <sup>2</sup> . . . . . 3(3.0)  
 WOH 2022 World Civilization II <sup>2</sup> . . . . . 3(3.0)
2. 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 <sup>2</sup> . . . . . 3(3.0)  
 LIT 2120 World Literature II PR: ENC 1102 <sup>2</sup> . . . . . 3(3.0)

3. Take one additional course from either B1 or B2. . . . . 6 hour

C. Mathematical Foundation . . . . . 6 hour

1. MAC 1105 College Algebra <sup>2</sup> . . . . . 3(3.0)  
 MGF 1106 Finite Mathematics <sup>2</sup> . . . . . 3(3.0)
2. CGS 1060C Introduction to Computer Science <sup>2</sup> . . . . . 3(3.0)  
 STA 1060C Basic Statistics using Microsoft Excel <sup>2</sup> . . . . . 3(3.0)  
 STA 2014C Principles of Statistics <sup>2</sup> . . . . . 3(3.0)

D. Social Foundation . . . . . 6 hours

1. ECO 2013 Principles of Macroeconomics . . . . . 3(3.0)  
 ECO 2023 Principles of Microeconomics . . . . . 3(3.0)  
 POS 2041 American National Government . . . . . 3(3.0)
2. PSY 2012 General Psychology . . . . . 3(3.0)  
 SYG 2000 General Sociology . . . . . 3(3.0)  
 ANT 2000 General Anthropology . . . . . 3(3.0)

E. Science Foundation . . . . . 6 hours

1. 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 . . . . . 4(3.3)  
 CHM 1020 Concepts in Chemistry PR: High School Algebra . . . . . 3(3.0)
2. 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 Intro to Biotechnology and Genetic Engineering . . . . . 3(3.0)

\* A one credit laboratory is also available for this course.  
<sup>1</sup>A grade of "C-" (1.75) or better is required in this course.  
<sup>2</sup>A grade of "C-" (1.75) or better satisfies three hours of the Gordon Rule requirement.

Effective Date: Summer 2006

## Substitution of Courses: General Education Program and Other Requirements

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

## Alternate Courses: General Education Program

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

GEP Requirement	Acceptable Substitutions
MAC 1105 (College Algebra) <sup>1</sup>	MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313
ECO 2013 (Macroeconomics)	Any higher level ECO course which has ECO 2013 as a prerequisite ECO 2023 (Microeconomics)
PHY 2053C (Physics)	PHY 2048, PHY 2049, PHY 2054C, PHY 2014C, PHY 5015C
CHM 1020 (Chemistry)	CHM 2045C, CHM 1032, CHS 1440
BSC 1005 or BSC 1050 (Biology) <sup>1</sup>	BSC 2010C
GEO 1200 (Geography)	GEO 2370
CGS 1060C (Intro to Computer) <sup>1</sup>	CGS 2100C, COP 2200, COP 2500C, COP 3502C, COT 3100C;
STA 2014C (Statistics)	STA 2023, STA 3032
THE 2000 (Theatre)	THE 2020
FIL 1001 (Cinema Survey)	FIL 2400, FIL 3401, FIL 3402
MUL 2010 (Enjoyment of Music) <sup>1</sup>	MUH 4212, MUL 2016, MUL 2720

<sup>1</sup>For all of the acceptable substitutions in this GEP requirement, a grade of "C-" or better satisfies three hours of the Gordon Rule requirement.

## Diversity Requirement

The University recognizes that communities are comprised of, and enriched by, people of diverse backgrounds. The study of diversity is encouraged to promote an understanding of the needs of individuals, the University, and society. Thus, all students completing their first bachelors degree from UCF must complete at least one course that explores the diverse backgrounds and characteristics found among humans, including: race/ethnicity, gender, social class/caste, religion, age, sexual orientation, and level of physical ability.

Students are exempt from this requirement if they have completed an Associate of Arts degree or the General Education Program at a Florida public state university or community college. Students who have previously completed a baccalaureate degree also are exempt. The requirement is satisfied by the successful completion of a diversity course selected from the following list. Additional courses may be approved subsequently by the General Education Oversight Committee, so students should consult their departmental advisor for the most current listing.

## General Education Courses:

- ENC 1102 Composition II
- SPC 1600C Fundamentals of Oral Communication

- Understand how individuals behave and interact with other individuals in their psychological, political, economic and social environments.

### Science Foundation

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

# Undergraduate Degree Requirements

SYG 2000	General Sociology
ANT 2000	General Anthropology
POS 2041	American National Government
PSY 2012	General Psychology
WOH 2022	World Civilization II
LIT 2120	World Literature II

## Other Courses:

AMH 3421	History of Florida to 1845
AMH 3423	Florida History 1845-Present
AMH 3562	Women in American History II
AML 3283	Contemporary American Women's Fiction
AML 3615	Harlem, Haiti, and Havana
ANT 3245	Native American Religions
ASH 4304	Women China
CCJ 4463	Cultural Diversity in Criminal Justice
CCJ 4670	Women and Crime
CJE 4174	Comparative Justice Systems
COM 4014	Gender Issues in Communication
COM 4461	Intercultural Communication
CPO 3304	Politics of Developing Areas
EDG 2701	Teaching Diverse Populations
GEO 3470	World Political Geography
JST 3401	History of the Jewish People I
JST 3402	History of the Jewish People II
LIN 4643	Cross Cultural Communication
LIN 4XXX	African-American Styles of Communication
LIT 3354	Ethnic Literature in America
LIT 3192	Caribbean Literature
MMC 4300	International Media
MUL 2710	Music of the World
NUR 3809	Transitional Concepts in Nursing I
NUR 3617	Promoting Healthy Communities
NUR 3616	Promoting Healthy Families Across the Lifespan
PAD 4446	Multiculturalism in Public Administration
PLA 4020	Law and Society
PLA 4830	World Legal Systems
PLA 4XXX	Employment Discrimination
POS 3627	Cultural Plurism and Law
POS 4323	Women and Politics
POS 4622	Politics and Civil Rights
PUP 3314	Minority Politics
SOW 3420	Social Work with Minorities
SPW 4772	Black Presence in Contemporary Latin America
SYD 3800	Sex Roles in Modern Society
SYP 4323	Social Systems and Diversity
SYP 4734	Minority Aging
SYP 4323	Social Systems and Diversity
THE 3230	Commonality within Cultural Diversity Experienced through Theater
WST 3561	Third Wave Feminism
WST 3015	Introduction to Women's Studies

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

## Exit Exams

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

## Foreign Language Proficiency Requirement (Bachelor of Arts Degree)

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

### Placement in Language Course

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

tion abroad must substitute select classes.

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

1. This requirement is for proficiency and not a requirement for a particular number of hours of course work. For example, successful completion of only SPN 1121 (Elementary Spanish Language and Civilization II) would satisfy the B.A. requirement. Appropriate scores on Advanced Placement and CLEP examinations will also satisfy the requirement.
2. This is a University-wide requirement for all B.A. majors.
3. The Testing Administrator of the University Testing Center will offer the Foreign Language Proficiency Examination throughout each term. Students must register in advance with that office to take the examination (PH 106).
4. The foreign language proficiency requirement does not apply to students seeking a second baccalaureate degree.
5. A student who is required and furnishes a passing TOEFL (Test of English as a Foreign Language) score for admission to the University is considered to have satisfied the requirements.

## American Sign Language

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

## SUS Foreign Language Admission Requirement

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

## The Gordon Rule

The "Gordon Rule" (State Rule 6A-10.30) applies to students who first enrolled in any college or university after October 1982. The rule requires students to complete four courses (twelve credit hours) of writing and to complete two courses (six 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	(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. Six hours of English coursework and six hours of additional coursework with significant college level writing	(1) Six hours of English Composition (2) Specifically identified courses and those from the following list:
--	--

### General Education courses that apply to the Gordon Rule Writing Requirement:

ENC 1101	Composition I
ENC 1102	Composition II
LIT 2110	World Literature I
LIT 2120	World Literature II
AMH 2010	U.S. History: 1492-1877
AMH 2020	U.S. History: 1877-Present
EUH 2000	Western Civilization I
EUH 2001	Western Civilization II
HUM 2210	Humanistic Tradition I
HUM 2230	Humanistic Tradition II
WOH 2012	World Civilization I



# Undergraduate Degree Requirements

WOH 2022	World Civilization II
BSC 2010C	Biology I
<b>Non-Gen Ed courses that also apply to the Gordon Rule Writing Requirement:</b>	
<b>All Courses with an AML, ENC, ENG, ENL, and LIT prefix</b>	
AMH 3402	History of the South to 1865
AMH 3403	History of the South Since 1865
AMH 3441	History of the Frontier: Eastern America
AMH 3442	History of the Frontier: Western America
AMH 3541	U. S. Military History To 1900
AMH 3561	Women in American History I
AMH 3571	Black American History I
AMH 3800	Canadian History
AMH 4110	Colonial America, 1607-1763
AMH 4130	The Age of the American Revolution, 1763-1789
AMH 4140	Jeffersonian America
AMH 4160	Jacksonian America
AMH 4170	Civil War and Reconstruction
AMH 4201	The Gilded Age and Progressivism
AMH 4231	United States History: 1914-1939
AMH 4270	United States History: 1939-1960
AMH 4311	American Culture I
AMH 4313	American Culture II
AMH 4510	Rise of the United States to World Power, 1776-1914
AML 3031	American Literature I
AML 3041	American Literature II
ANT 3163	Mesoamerican Archaeology
ARH 4450	20th Century Art
ARH 4800	Theory and Criticism of the Visual Arts
ASH 4404	China in 19th and 20th Centuries
ASH 4442	Modern Japan, 19th and 20th Centuries
DAN 3134	Dance History I
EAS 4700C	Aerospace Design I
EGN 4412C	Interdisciplinary Design I
EML 4501C	Engineering Design I
EUH 3122	Medieval Society and Civilization
EUH 3142	Renaissance and Reformation
EUH 3235	Romanticism and Realism
EUH 3242	Modern Europe and the First World War
EUH 3281	Second World War and Rebirth of Europe
EUH 3411	Ancient Rome
EUH 3451	History of Modern France
EUH 3651	War and Society
EUH 4284	Fascism and the Totalitarian Dictatorships
EUH 4465	Hitler's Third Reich
EUH 4500	English History to 1485
EUH 4501	English History: 1485-1815
EUH 4502	British History: 1815-Present
EUH 4571	History of Russia to 1801
EUH 4574	History of Russia: 1801-1917
EUH 4576	History of Russia in the 20th Century
EUH 4620	European Great Powers: 1815-1914
HIS 4150	History and Historians
HUM 3320	Contemporary Multicultural Studies
HUM 3394	Representations of Place and Space
HUM 3401	Asian Humanities
HUM 3431	Ancient Humanities
HUM 3460	Latin American Humanities
HUM 3553	Moses, Jesus and Muhammad
JOU 2100C	News Reporting
JOU 3101	Advanced Reporting
JOU 4181	Public Affairs Reporting
JOU 4300	Feature Writing
JOU 4306C	Critical Writing
JOU 4308	Freelance Writing
LAH 3130	Latin American History I
LAH 3200	Latin American History II
LAH 3400	History of Mexico and Central America
LAH 3470	History of the Caribbean
NUR 3165	Nursing Research
NUR 3805	Transitional Concepts in Nursing I
PAD 4034	The Administration of Public Policy
PAD 4720	Survey Research in Public Administration
PHH 3100	Ancient Philosophy
PHH 3200	Medieval Philosophy
PHH 3460	Modern Western Philosophy
PHH 3600	Contemporary Philosophy
PHH 3700	American Philosophy
PHI 3083	Research Methods in Philosophy
PHI 3320	Philosophy of Mind
PHI 3323	Minds and Machines: Philosophy of Cognitive Science

PHI 3451	Philosophy of Psychology
PHI 3670	Ethical Theory
PHI 3800	Aesthetics
PHI 3803	Philosophy and Creativity
PHI 3805	Contemporary Aesthetics
PHI 3941	Philosophy Practicum
PHI 4221	Philosophy of Language
PHI 4321	Philosophies of Embodiment: Mind/Body/Self
PHI 4341	Ways of Knowing
PHI 4804	Critical Theory
PHI 4931	Philosophy in the News
PHM 3401	Philosophy of Law
PHP 3781	African-American Philosophy
PHP 4782	Phenomenology
PLA 3155	Legal Writing
PLA 4935	Capstone: Legal Issues
REL 3131	Religion in America
REL 3432	Roots of Western Mysticism
RTV 4403	Electronic Media, Technology, and Society
SOW 4232	Social Welfare Policies and Issues
SOW 4341	Micro-Level Roles and Interventions in Social Work
THE 2304	Script Analysis
TPA 4940	Technical Theatre/Design Internship
TPP 3310C	Directing for Theatre I
TPP 4940L	Theatre Internship

## College Level Academic Skills Test (CLAST)

The College Level Academic Skills Test (CLAST) is designed to ensure that students have achieved communication and computation skills commensurate with successful completion of the lower-division coursework. All students seeking an Associate of Arts or baccalaureate degree from a State of Florida institution are required by the State to satisfy the CLAST requirement. There are several methods by which students may meet this requirement, but applicants for teacher certification can 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 credit hours** who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of CLAST may enroll in 36 semester hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met. An appeal to continue enrollment may be submitted to the CLAST Petition Committee (PH 106). CLAST is offered statewide once per term. Students must register in advance at the University Testing Center (PH 106). Additionally, students may retake the English Language Skills, Reading, and/or Mathematics subtests on computer at the University Testing Center, PH 106. 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) at 407-823-5130. Academic advising offices can answer questions students may have regarding CLAST.

### 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 subtest of the CLAST due to a disability can request that a subtest 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 the Student Academic Resource Center (PH 115) to complete a petition to waive a CLAST subtest. The CLAST Waiver Committee reviews all requests for waivers on a case-by-case basis. For disability registration information, contact Student Disability Services at 407-823-2371. For CLAST waiver petition information and forms, visit <http://fyt.sdes.ucf.edu>.

### Summer Attendance Requirement

A student entering the State University System with fewer than 60

# Undergraduate Degree Requirements

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

## Admission to the Upper Division

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

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

## Graduation Application Deadline

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

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

## Grad On Track (GOT)

*First Year Advisor:* Stephen O'Connell; PH 116; 407-823-3789; [got@mail.ucf.edu](mailto:got@mail.ucf.edu); <http://gradontrack.sdes.ucf.edu>

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

## Correspondence Courses

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

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

The current catalog details enrollment procedures, fees, and course information. A copy may be obtained at no cost by calling or writing to: University of Florida, Independent Study, Suite D, 2209 NW 13th St., Gainesville, FL 32609; 352-392-1711, Ext 200; e-mail: [learn@nervm.nerdc.ufl.edu](mailto:learn@nervm.nerdc.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. degrees and must use the same catalog year for both majors. Students **may not** pursue a BA/BS double major in the same major. Although both majors will be indicated on the transcript, only **one** diploma (B.A. or a B.S., at the student's option) will be awarded. A double major does not require a minimum number of hours beyond those necessary for completing degree requirements (120 or more hours), while a second baccalaureate degree has specific minimum requirements.

## Double Degrees/Second Baccalaureate Degree

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

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

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

## Catalog Year Requirements for Double Degrees and Double Majors

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

## Dual Usage of Credit Hours

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

# 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 myUCF Class Schedule Search at <https://my.ucf.edu>.

Registration is available over the web using the myUCF system at <https://my.ucf.edu> and in the college advising offices. The dates and times for each registration period are included in the "Academic Calendar" online at [http://www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php).

## 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

Undergraduate Enrollment Status	Credit Hours
Full Time	12 or more
Three Quarter Time	9-11
Half Time	6-8
Less Than Half Time	less than 6

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

## Credit Hour Limits

Undergraduate students are limited to 14 credit hours for the Summer term and to 17 credit hours for the Fall and Spring terms. The department chair and college advising office must approve overrides. Overrides may be processed at the college advising offices.

## Excess Hours

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

## Hold

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

## Add/Drop Policy

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

## Audit Registration

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

## Senior Citizen Audit

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

## State of Florida Employee Registration

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

## UCF Employee Registration

UCF employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of Registration each term at the time specified on the "Academic Calendar," online at [http://www.ucf.edu/info/acad\\_calendar.php](http://www.ucf.edu/info/acad_calendar.php). For waiver eligibility and application information, see "Tuition Waivers" within the "Financial Information" chapter of this *Undergraduate Catalog*.

## State Tuition Exemption Program (STEP) (National Guard) Registration

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

## State University System (SUS) Florida Transient Students

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

# Academic Regulations and Procedures

## UCF Students Attending Another State University System of Florida Institution

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

## UCF Students Attending a Non-SUS Institution

A UCF degree-seeking student desiring to earn credit at another college or university for transfer back into a UCF degree program must obtain prior transient approval for specific courses from the Dean or Department Chair 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.facts.org> and must submit the completed, approved and signed form to the Registrar's Office (MH 161). Transient credit cannot be used to reduce the last 30 semester hour residency requirement for a baccalaureate degree, the last 20 semester hour residency requirement for an Associate of Arts degree, or any departmental residency requirements.

## Enrollment and Degree Certifications

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

## Withdrawal Policy

Withdrawal for each term begins after "Late Registration and Add/Drop" ends. Students may withdraw from a class and receive the notation of "W" until the date noted in the "Academic Calendar" online at <http://www.ucf.edu/info>. A student may withdraw from courses using myUCF at <https://my.ucf.edu>, or by visiting the Registrar's Office (MH 161), certain college advising offices, or a Regional Campus records office. Students may withdraw by fax at 407-823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student's identification number, the course(s) to be dropped and his or her signature. Students also may send a written request to the Registrar's Office by mail (to P.O. Box 160114, Orlando, FL 32816-0114). This letter must be time-stamped or post-marked before the published withdrawal deadline and must include the student's identification number, the course(s) to be dropped and his or her signature. Students seeking to withdraw in person must sign the request and must provide photo-identification. The official date of withdrawal is the date the University receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal. 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 "WP" will be recorded on the student's permanent record; if failing, a "WF" will be entered. Medical and late withdrawals normally are for all courses taken in the semester.

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

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

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

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

## Withdrawal and Academic Behavior Violations

Should an alleged violation of academic behavior standards arise before the withdrawal deadline in a term, the instructor shall notify the unit head who will notify the University Registrar that the student shall not be withdrawn from the course in question. Only a written release from the instructor of the authorized party deciding a student appeal will permit withdrawal. However, if the student appeals the academic action and desires to withdraw from the course, the process shall be initiated by the student immediately in the normal University manner. Such withdrawal requests will be held in abeyance until a ruling on an appeal is obtained. If resolved in favor of the student, the withdrawal request will be processed at the time. The individual empowered to rule on the student appeal shall appropriately notify both the University Registrar and the Director of the OSRR or designee of the outcome. For additional information regarding Academic Behavior Violations, see the current *Golden Rule*.

## Grade System

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

Grades	Grade Points Per Semester Hour of Credit
A	4.00
A-	3.75
B+	3.25
B	3.00
B-	2.75
C+	2.25
C	2.00
C-	1.75
D+	1.25
D	1.00
D-	0.75
F	0.00
NC - No Credit	*

\* Available only in CHM 1032, CHM 2045C, CHS 1440, ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014C. In these classes NC replaces the use of D+, D and D-.

Legend	Action	Grade Points
I	Incomplete	-
N	No grade reported by instructor (followed by grade)	-
R	Repeated course (Grade Forgiveness)	-
S	Satisfactory (w/credit)/Satisfactory Progress (Research, Thesis, or Dissertation) (followed by grade) Subsequently repeated (no credit)	-
T		-
U	Unsatisfactory (no credit)	-
W	Withdrawn	-
WF	Withdrawn Failing	-
0.00		-
WH	Health Form Withdrawal	-
WM	Medical Withdrawal	-
WP	Withdrawn Passing	-
X	Audit (no credit)	-

The Grade Point Average (GPA) is the average number of grade points per semester hour attempted. **GPA is computed by dividing the total number of grade points assigned by the total number of semester hours attempted, less hours resulting from NC, W, WP, and I grades.** The GPA for graduation requirement is a minimum UCF 2.0 ("C").

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

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

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

2) Divide the total number of grade points by the total number of semester hours earned that term:  
 $46.00 \text{ total grade points} / 13 \text{ semester hours} = 3.54 \text{ GPA for that term.}$

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

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

## Incomplete Grade

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

## Grade Change

A grade change is the change of any originally assigned grade to another grade, including grades of "I" and grades earned by administrative withdrawals. Grade changes other than medical withdrawals will be considered only during the semester immediately following the one in which the grade was assigned, except that grades assigned during the Spring semester may be changed during either the following Summer term or Fall semester. A change in grade must be approved by the dean of the college or school. A grade will not be changed after a

degree has been conferred. The Registrar will change a student's academic status if necessitated by a change of grade, except in cases of academic suspension. If a student is suspended, the Admissions and Standards Committee may review the suspension and readmit the student if the Committee decides readmission is warranted.

## Grade Reports

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

## Attendance, Absences, or Unsatisfactory Work

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

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

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

## Classroom Responsibility

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

## Student Conduct

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

A person applying for admission to UCF who has declared a violation of conduct policies at a previous college or university or has been charged with a violation of the law (including traffic violations that resulted in a fine of \$200 or more) may have circumstances of the case reviewed by the Office of Student Conduct (SRC 154) to consider eligibility for admission.

## Religious Observances

It is the policy of the University of Central Florida to reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. A student who desires to observe a religious holy day of his or her religious faith will notify all of his/her instructors and be excused from classes to observe the

# Academic Regulations and Procedures

religious holy day.

The student will be held responsible for any material covered during the excused absence, but will be permitted a reasonable amount of time to complete any work missed. Where practicable, major examinations, major assignments, and University ceremonies will not be scheduled on a major religious holy day.

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

## Student Classifications

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

**Freshman:** 0-29 semester hours.

**Sophomore:** 30-59 semester hours.

**Junior:** 60-89 semester hours.

**Senior:** 90 or more semester hours, prior to completion of baccalaureate requirements.

### Post-Baccalaureate:

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

### Graduate:

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

### Other Student Classifications:

#### Auditor:

A student registered for any credit course who is not seeking credit.

#### Co-op Student:

A student enrolled in the Center for Cooperative Education and Applied Learning Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op academic calendar: a co-op student either is on assignment or attending class during each term.

#### Special Student:

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

#### Temporary:

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

#### Transient:

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

#### Limited Non-Degree Seeking:

A student earning credit, but not working on a degree program.

#### Provisional:

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

## Academic Honors

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

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

### President's Honor Roll Certificate (Part-Time Award)

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

### Dean's List

The Dean's List is compiled in recognition of scholastic honors 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.

### 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 (this includes transfer credit) that is in the upper 10 percent of the range established by all students graduating in the same college/school during the previous two years;
2. 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.

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

Consult the Academic Honors list at

<http://pegasus.cc.ucf.edu/~irps/character/honorscutpoints.html> for the most up-to-date UCF Honors minimum GPA requirements.

## Grade Forgiveness

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

1. Grade Forgiveness is limited to **two** courses;
2. Grade Forgiveness **may not** be used twice for the same course;
3. Grade Forgiveness will only be awarded if the original and repeated courses both are taken at UCF;
4. All grades will remain on the student's official transcript. The original course grade will be marked with a "T" to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an "R." The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;
5. If it is determined that the student is ineligible for the Grade Forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made;
6. If a student applies for Grade Forgiveness and later withdraws, or receives an "I" grade or "NC" grade in the course, the attempt **will** count as one of the allotted Grade Forgiveness attempts, and the GPA will calculate both grades.
7. UCF **does not** honor Grade Forgiveness granted at other institutions unless it is part of an Associate in Arts or a specific statewide articulated Associate in Science degree transferred from a Florida Public Community College or State University. Grade forgiveness awarded within a bachelor's degree from a Florida State System institution is not honored at UCF. UCF's Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations;
8. Due to the two-course limit, a student who has repeated two or

more courses at a Florida Public Community College or State University and included those courses in the transfer of an AA or a specific statewide articulated AS degree **will not** be granted any Grade Forgiveness at UCF;

9. Grade Forgiveness awarded for repeated courses will not retroactively alter any previous academic action (i.e. academic probation or disqualification). In addition, no academic records can be altered after a student graduates;
10. Grade Forgiveness is not retroactive and, therefore, may not be used for a course repeated before Fall 1981. If a student who repeated a course at UCF before 1981 and did not use the previous forgiveness policy may repeat the course again. In this case, the lower of the previous two grades will be forgiven. This special circumstance is the only one in which a student will be allowed to repeat a course more than once; and,
11. With prior approval from the Dean's office in which the course is offered, a student can only substitute a course different from the original one if: 1) the substitute course reflects a change in prefix, number, hours, or title but not in substance; or 2) the substitute course replaces a course no longer offered by UCF.

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

## Academic Standing

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

## Academic Probation

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

First-time-in-college students may be admitted on Academic Probation at the discretion of the Undergraduate Admissions Office or the Admissions and Standards Committee. Transfer students may be admitted on Academic Probation at the discretion of the Undergraduate Admissions Office or the Admissions and Standards Committee. Academic Probation is intended to inform students making unsatisfactory progress of their need to alter study habits and seek additional counseling. Early recognition will indicate to the student the possible jeopardy to academic goals and will also allow an opportunity to demonstrate acceptable performance.

## Disqualified (First Suspension)

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

## Exclusion (Second Suspension or more)

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

## Good Standing

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

## Earning Credit While Disqualified or Excluded

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

## Readmission

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

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

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

## Readmission Following Non-Enrollment for Two Consecutive Semesters

The student must complete and submit the "Readmission Application Form," available at the Registrar's Office or on the web at <http://registrar.ucf.edu>. If the student has attended another regionally accredited institution since leaving UCF, the student must request an official transcript be sent to the Registrar's Office. If the student was previously admitted to a UCF limited-access program, the student will be placed in pending status for that major and must apply to the college for readmission to the program. Plus or minus grades will transfer for 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:

## Academic Regulations and Procedures

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

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

2. Contact the major's department/school/college to establish a plan to complete the program of study. The student **must** obtain the department/school/ college's favorable recommendation of this plan in writing; and,
3. Submit to the Registrar's Office official transcripts from all other schools attended during suspension (if applicable).

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

### Readmission Prior to Completion of the Required Suspension

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

### Readmission Following Suspension: Disqualification (with a Grade Point Deficiency of 1.5 or more Grade Points) or Exclusion

Students who are disqualified (with a grade point deficiency of 1.5 grade points or more) or who have been excluded **are not eligible for readmission to the University**. The Registrar's Office will deny readmission to ineligible students. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details. For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

### Dropping or Withdrawing During Readmitted Term

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

### Limitations on the Number of Readmission Appeals

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

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

### Non-Academic Admission Clearances

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

denied admission or readmission, or other academic and/or disciplinary action up to and including expulsion.

### Appeal

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

### Admissions and Standards Committee

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

### Appeal

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

### Right of Appeal

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

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



- e. SASS Degree Audit (obtained from myUCF at <https://my.ucf.edu>).

Excepting students who have not completed the required suspension period, the appellant will be afforded the opportunity to personally 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 advising office. This plan will include the following:
  - a. The specific semesters of the student's academic history to be nullified by satisfactory completion of the Academic Amnesty Program;
  - b. Approved courses in which the student will enroll during the two terms that comprise the Academic Amnesty Program; and
  - c. Any additional requirements mandated by the college advising office (i.e., academic advising or mentoring, required tutoring or academic support services, etc.).
  - d. Complete and submit an Academic Amnesty Agreement to the Admission and Standards Committee.
- 2) The UCF Admissions and Standards Committee will determine a student's eligibility for entrance into the Academic Amnesty Program. The student will be required to appear before the Admissions and Standards Committee.

Obtain the Academic Amnesty form at [registrar.ucf.edu](http://registrar.ucf.edu).

## Athletic Eligibility and Retention Committee

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

## Name Changes

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

## Address and E-Mail Changes

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

## Transcript Requests

Requests for official transcripts are made through the Registrar's Office (in person, by mail, or by fax). "Transcript Request Forms" are also available on the Registrar's Office website at <http://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 myUCF at <https://my.ucf.edu>.

## Third Attempt Course Repeat Surcharges

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

Exemptions to the third attempt surcharge will be considered through a Fee Appeal Process.

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

## Extenuating Circumstances

Those circumstances determined by the University to be exceptional and beyond the control of the student. These may include, but 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, Minor, Undergraduate Certificate Policies

### Policy for Undeclared Students

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

### Majors

The University assigns the major that the student indicated on the "Application for Admission or Readmission." It is the student's responsibility to make appropriate major changes. Students who change majors between different colleges (including the Rosen College of Hospitality Management) must adopt the most current catalog. Students changing from a declared major to an "Undeclared" or "Undecided" major also must adopt the most current catalog. For each of these students, the University automatically will update the catalog year when processing the change in major. Students may retain their catalog when changing tracks/concentrations within the same major (e.g., English: Literature to English: Creative Writing), or when moving from a "Pending" category to the equivalent major (e.g., "Business Pending" to "Accounting"). If the new major is a different subject from the "pending" major (e.g., "Business Pending" to "History"), the student must adopt the most current catalog and the University automatically will update the catalog year when processing the change in major. If they have not interrupted 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.

### Undergraduate Certificates

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

## Student Records

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

## Family Educational Rights and Privacy Act (FERPA)

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

1. The right to inspect and review the student's education records within 30 days of the day the University receives a written request for access. Students should submit to the University Registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they desire to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed;
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.

The student may ask the University to amend a record that he or she believes is inaccurate or misleading. The student should write the University official responsible for the record, clearly identify the part of the record to be changed, and specify why the current record is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing;

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

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

## Directory Information

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

- name
- current mailing address
- telephone number
- e-mail address
- date of birth
- major field of study
- dates of attendance

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

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

### Higher Education Act

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

### Accelerated Education Opportunities

The University of Central Florida provides a number of options by which students may shorten the time required to complete the baccalaureate degree. These options permit the University to recognize high levels of academic achievement and acquisition of knowledge prior to or during attendance at the University. Procedures that may be used include the Advanced Placement Program (AP), the College Level Examination Program (CLEP), University Course Credit by Examination, DANTES, and the International Baccalaureate. A maximum of 45 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. In addition, there are accelerated Undergraduate - Graduate Programs linking the bachelors and Master's degree listed in the catalog.

**At the time this catalog went to press, the Florida Department of Education was reviewing test credit policies. For updated information please visit <http://www.registrar.ucf.edu/testcredit.html>.**

### Advanced Placement Program (AP) (see table below)

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

### Advanced Placement Language (all modern languages)

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

### Advanced Placement Literature (all modern languages)

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

### Advanced Placement Latin

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

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

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

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

### International Baccalaureate (all modern languages)

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

## ADVANCED PLACEMENT EXAMS

Exam	Score of 3	GEP Usage	Score of 4	Score of 5	GEP Usage
Art History	ARH 1000		ARH 2050 and 2051	Same as 4	CUL & HIS Found 2
Biology	BSC 1005/1005L	SCI Found 2	Same as 3	BSC 2010C and BSC 2011C	SCI Found 2
Calculus AB	MAC 2311	MAT Found 1	Same as 3	Same as 3	MAT Found 1
Calculus BC	MAC 2311	MAT Found 1	MAC 2311 and 2312	Same as 4	MAT Found 1
Chemistry	CHM 1020 & 1020L	SCI Found 1	CHM 2045C or CHM 2045 & CHM 2045L	CHM 2045C and CHM 2046 & 2046L	SCI Found 1
Computer Science A	CGS 1075	MAT Found 2	Same as 3	Same as 3	MAT Found 2
Computer Science AB	CGS 1076	MAT Found 2	Same as 3	Same as 3	MAT Found 2
Economics: Macro	ECO 2013	SOC Found 1	Same as 3	Same as 3	SOC Found 1
Economics: Micro	ECO 2023	SOC Found 1	Same as 3	Same as 3	SOC Found 1
English Language and Composition	ENC 1101	COM Found 1	ENC 1101 and 1102	Same as 4	COM Found 1&2
English Literature and Composition	ENC 1101	COM Found 1	ENC 1101 and 1102	Same as 4	COM Found 1&2
Environmental Science	ISC 1051	SCI Found 2	Same as 3	Same as 3	SCI Found 2
European History	EUH 1009		EUH 2000 and 2001	Same as 4	CUL & HIS Found 1
Government and Politics: Comparative	CPO 1002		Same as 3	Same as 3	
Government and Politics: United States	POS 2041	SOC Found 1	Same as 3	Same as 3	SOC Found 1
Human Geography	GEO 1400		Same as 3	Same as 3	
Music Theory	MUT 1001 if composite score is 3 or higher MUT 1111 and MUT 1241 if both aural and non-aural subscores are 3 or higher				
Physics B	PHY 2053C	SCI Found 1	Same as 3 PHY 2053C and PHY 2054C	Same as 3 Same as 4	SCI Found 1
Physics C: Electricity / Magnetism	PHY 2054C	SCI Found 1	PHY 2049C	Same as 4	SCI Found 1
Physics C: Mechanics	PHY 2053C	SCI Found 1	PHY 2048C	Same as 4	SCI Found 1
Psychology	PSY 2012	SOC Found 2	Same as 3	Same as 3	SOC Found 2
Statistics	STA 2023	MAT Found 2	Same as 3	Same as 3	MAT Found 2
Studio Art: Drawing Portfolio	No direct equivalent		Same as 3	Same as 3	
Studio Art: 2-D Design Portfolio	No direct equivalent		Same as 3	Same as 3	
Studio Art: 3-D Design Portfolio	No direct equivalent		Same as 3	Same as 3	
United States History	AMH 1000		AMH 2010 and 2020	Same as 4	CUL & HIS Found 1
World History	WOH 2022	CUL & HIS Found 1	Same as 3	Same as 3	CUL & HIS Found 1

UCF REGULATIONS & PROCEDURES

# Academic Regulations and Procedures

Florida take English as their A1 level language (literature for native or near-native speakers) and one or more foreign Language B exams. Within each category, there are "standard" and "higher" level examinations. Institutions may wish to award additional credit for higher-level exams.

## Language B (most common)

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

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

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

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

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

### INTERNATIONAL BACCALAUREATE

Exam	4 (Diploma holders only)	GEP Usage	5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)	GEP Usage	6-7 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)	GEP Usage
Biology	BSC 1005/1005L	SCI Found 2	BSC 1005/1005L and BSC 2010C	SCI Found 2	Same as 5	SCI Found 2
Chemistry	CHM 1020 & 1020L	SCI Found 1	CHM 1020/1020L and CHM 2045C	SCI Found 1	Same as 5	SCI Found 1
Computer Science	CGS 1078	MAT Found 2	CGS 1078 (6 Credits)	MAT Found 2	Same as 5	MAT Found 2
Design Engineering	ETI 1410		ETI 1410 (6 Credits)		Same as 5	
Economics	ECO 1000		ECO 2013 and ECO 2023	SOC Found 1	Same as 5	SOC Found 1
English A1	ENC 1101	COM Found 1	ENC 1101 and ENC 1102	COM Found 1&2	Same as 5	COM Found 1&2
Environmental Systems	ISC 1050	SCI Found 2	ISC 1050 (6 credits)	SCI Found 2	Same as 5	SCI Found 2
Further Mathematics (Advanced Mathematics)	MHF 1202		MHF 1202 and MHF 1209		Same as 5	
Geography	GEA 1000		GEO 1200 and GEO 1400	SCI Found 2	Same as 5	SCI Found 2
History	WOH 1030	CUL & HIS Found 1	WOH 1030 and WOH 1999	CUL & HIS Found 1	Same as 5	CUL & HIS Found 1
Math Methods	MAC 1105	MAT Found 1	MAC 1105 and MAC 1140	MAT Found 1	MAC 1140 and MAC 2233	MAT Found 1
Math Studies	MAT 1033		MAT 1033 and MGF 1106	MAT Found 1	Same as 5	MAT Found 1
Mathematics	MAC 1147	MAT Found 1	MAC 1147 and MAC 2233	MAT Found 1	MAC 2233 and MAC 2311	MAT Found 1
Music	MUL 2010	CUL & HIS Found 2	MUL 2010 and HUM 1999	CUL & HIS Found 2	Same as 5	CUL & HIS Found 2
Philosophy	PHI 1999	CUL & HIS Found 2	Same as 4	CUL & HIS Found 2	Same as 5	CUL & HIS Found 2
Physics	PHY 1020C	SCI Found 1	PHY 1020C and PHY 1009	SCI Found 1	PHY 2053C and PHY 2054C	SCI Found 1
Psychology	PSY 2012	SOC Found 2	PSY 2012 and additional course determined by institution.	SOC Found 2	Same as 5	SOC Found 2
Social Anthropology*	ANT 2410	SOC Found 2	ANT 2410 and additional course determined by institution.	SOC Found 2	Same as 5	SOC Found 2
Theatre Arts	THE 2000	CUL & HIS Found 2	THE 2000 and HUM 1999	CUL & HIS Found 2	Same as 5	CUL & HIS Found 2
Visual Arts	ARH 1999	CUL & HIS Found 2	ARH 1999 & HUM 1999	CUL & HIS Found 2	Same as 5	CUL & HIS Found 2

\* This use for General Education applies only to I.B. credit.

### COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

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

**IB Latin**

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

**College Level Examination Program (CLEP)**

(see table on previous page)

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

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

- Credit may be awarded in the CLEP subject examination area, provided the student: a) is not within 60 semester hours of graduation; b) has not previously received comparable college course credit in the CLEP examination area; c) does not receive comparable college credit in the CLEP examination area in the same term the examination is taken or in a subsequent term; d) has not previously completed, failed, nor received credit by UCF (transfer or otherwise) in a more advanced course in the examination area; and e) does not complete nor receive credit by UCF (transfer or otherwise) in a more advanced course during the semester in which the CLEP examination is taken.

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

**CLEP Language Examinations**

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

**Credit by Examination**

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

**Cambridge AICE Exams**

(see table below)

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

**CAMBRIDGE AICE EXAMS**

Exams	Passing score of "E" or "D"	GEP Usage	Passing score of "C", "B", or "A"	GEP Usage
Art and Design (AS-Level)	Credit at discretion of faculty; submission of portfolio recommended		same	
Art and Design (A-Level)	Credit at discretion of faculty; submission of portfolio recommended		same	
Biology (AS-Level)	none		BSC 1005/1005L	SCI Found 2
Biology (A-Level)	none		BSC 2010C	SCI Found 2
Chemistry (AS-Level)	none		CHM 1020/1020L	SCI Found 1
Chemistry (A-Level)	none		CHM 2045C	SCI Found 1
Computing (AS-Level)	CGS 1073	MAT Found 2	same	MAT Found 2
Computing (A-Level)	CGS 1073 and CGS 1074	MAT Found 2	same	MAT Found 2
Economics (AS-Level)	ECO 1000		same	
Economics (A-Level)	ECO 2013 and ECO 2023	SOC Found 1	same	SOC Found 1
English (AS-Level)	ENC 1101 or ENC 1102*	COM Found 1	same*	COM Found 1
English (A-Level)	ENC 1101 or ENC 1102#	COM Found 1	ENC 1101/1102 or ENC 1102/LIT 1006#	COM Found 1
Environmental Science (AS-Level)	EVR 1001C	SCI Found 2	same	SCI Found 2
Geography (AS-Level)	GEA 1000		same	
Geography (A-Level)	GEO 1200 and GEO 1400	SCI Found 2	same	SCI Found 2
History (AS- or A-Level)	Three credits for each successfully passed paper, subject to institutional review		same	
Foreign Language (Language Exams, AS or A-Level)	At least one semester of language credit up to elementary II level (usually 1121)		At least one semester of language credit up to intermediate II level (usually 2201)	
Foreign Language (Literature Exams, AS or A-Level)	One semester of literature survey credit		same	
Mathematics (AS-Level)	none		MAC 1147	MAT Found 1
Mathematics (A-Level)	none		MAC 2311	MAT Found 1
Physics (AS-Level)	none		PHY 1020C	SCI Found 1
Physics (A-Level)	PHY 2053C	SCI Found 1	PHY 2053C/2054C	SCI Found 1
Psychology (AS-Level)	none		none	none
Psychology (A-Level)	PSY 2012	SOC Found 2	same	SOC Found 2
Sociology (AS-Level)	none		none	none
Sociology (A-Level)	SYG 2000	SOC Found 2	same	SOC Found 2

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

# Academic Regulations and Procedures

## DANTES Examination Credit (see table below)

The University will award credit to students presenting qualifying scores in DANTES examinations. The table labeled "DANTES Subject Standardized Tests (DSST)" provides information related to the Dantes Examination credit. For additional information: [www.getcollegecredit.com](http://www.getcollegecredit.com).

## Excelsior College Examinations (see table below)

The table labeled "Excelsior College Examinations" provides information related to the Excelsior examination areas and subtest areas for which credit is awarded. More detailed information about Excelsior College Examinations, including detailed test descriptions, can be found online at <http://www.excelsior.edu>.

### DANTES SUBJECT STANDARDIZED TESTS (DSST)

Exam Credit	Course Number (3 credits per exam)	GEP Usage	Passing Grade
Business Math	QMB 1001		C
Criminal Justice	CCJ 1000		C
Environment and Humanity	EVR 1017		C
Foundations of Education	EDF 1000		C
Fundamentals of Counseling	PCO 1202		B
Here's to Your Health	HSC 1100		C
Human Resources Management	MAN 1300		C
Human/Cultural Geography	GEO 1400		C
Introduction to Business	GEB 1011		C
Introduction to Law Enforcement	CCJ 1000		C
Lifespan Developmental Psychology	DEP 2004		B
Money and Banking	BAN 1501		C
Physical Geology	GLY 1000	SCI Found 2	C
Principles of Financial Accounting	ACG 1001		C
Principles of Physical Science I	PSC 1121	SCI Found 1	B
Principles of Statistics	STA 1014	MAT Found 2	C

### EXCELSIOR COLLEGE EXAMINATIONS TABLE

Exam Title	Course Number (3 credits per course )	GEP Usage	Passing grade for credit
Abnormal Psychology	CLP 1140		B
English Composition	ENC 1101 for C	COM Found 1	C
	ENC 1101/ 1102 for B	COM Found 1	B
Ethics: Theory and Practice	PHI 1630		C
Foundations of Gerontology	GEY 1000		C
Human Resources Management	MAN 1300		C
Life Span Developmental Psychology	DEP 2004		B
Microbiology	MCB 1000		C
Psychology of Adulthood and Aging	DEP 1401		B

# SPECIAL ACADEMIC PROGRAMS AND RESEARCH INSTITUTES

## International Studies and Programs

*Interim Assistant Vice President of International and Interdisciplinary Studies:* Dr. Diane Z. Chase  
*Associate Director:* Angel Cardec  
407-882-2300; Fax: 407-275-4386; Research Pavilion, Suite 395,  
P.O. Box 163105, Orlando, FL 32816-3105;  
<http://www.international.ucf.edu>.

The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university's broader strategic plan for internationalization.

The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

Central to the global mission at UCF is an ongoing program of international grants and development projects. The OIS secures, through external funding agencies, the resources necessary for faculty and curriculum development, joint research projects, and partnership programs. Recent grants include U.S. Department of Education Fulbright-Hays Group Projects Abroad grants to Mexico, the Caribbean, Peru, India, and Bolivia.

Several enrichment opportunities for faculty have OIS involvement, including the International Track of the UCF Faculty Development Summer Conference, other faculty workshops, and research opportunities.

The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocolary statements of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Through the OIS, UCF develops, promotes and supports programs of study throughout Africa, Asia, Europe, Latin America and the Caribbean (see below).

## Study Abroad Programs

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self confidence, and awareness of other

cultures are only some of the benefits of study abroad. Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages' intensive programs in France, Japan, Germany, Spain and Italy; Social Work

Department programs in South Africa and Russia; Criminal Justice in Barbados and Russia, Nursing in Sweden, Education in the Netherlands, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Qingdao University in China; Universit'e de

Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jonkoping, Mallardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom

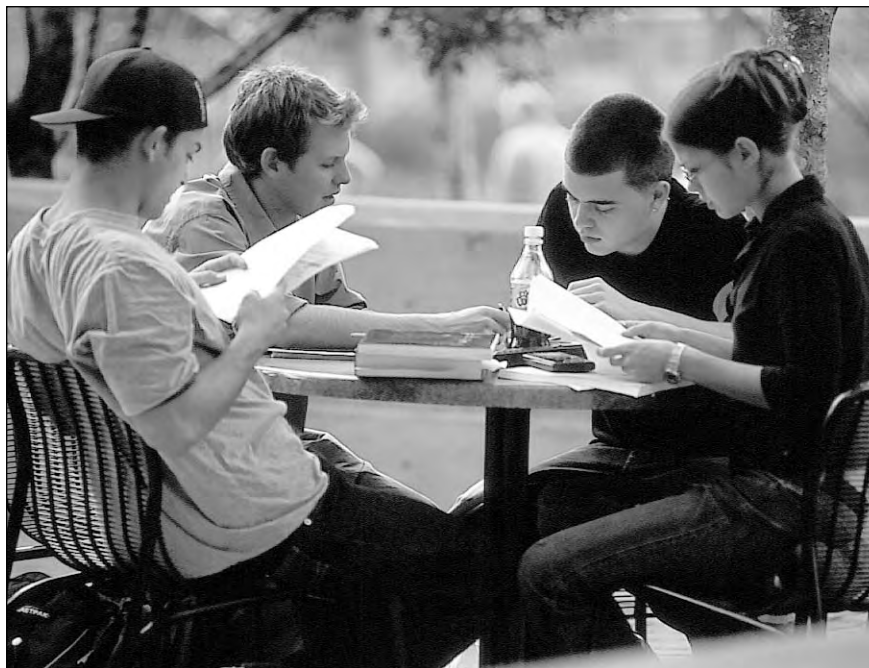
UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system. UCF students apply to these programs directly and must become transient students at the host institution.

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

## Experiential Learning, Undergraduate Studies

*Director:* Dr. Sheri Dressler, Howard Phillips Hall, Suite 208  
(407) 823-2667, [www.csel.ucf.edu](http://www.csel.ucf.edu)

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



## Special Academic Programs and Research Institutes

nerships with academic departments and community partners locally, nationally, and internationally.

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

- Co-op opportunities are available to students on all campuses in all Colleges. They are always major-related, paid, and multiple semesters with progressively responsible duties. They are either part-time around class schedules or full-time alternating semesters, structured for learning with reflection and evaluation, designated on transcripts, and available for credit when it will count in a student's academic program.
- Internships provide similar benefits to co-op experiences. They are usually one-semester, paid or unpaid, for credit, and occur toward the end of a student's program of study. They are available through the Experiential Learning department or through departments in Colleges. Contact information for department internship coordinators is on the Experiential Learning website.
- Service-Learning is a means of incorporating experiential learning into academic courses so that students learn course content through a service experience. Through this process, students gain an appreciation for civic engagement while using course content in a real-world environment. Courses using this approach are designated with SL in course listings so that students can select to participate in this type of learning experience.

Current co-op and internship opportunities through Experiential Learning are listed on our website under Experiential Learning. To apply for these opportunities students may complete an application online any time during the year, preferably one semester before they want to participate to allow time to obtain an appropriate learning experience.

### Division of Continuing Education

*Assistant Vice President/Director:* J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390, Orlando, FL 32826; 407-882-0260; Fax: 407-882-0244; Website: [www.ce.ucf.edu](http://www.ce.ucf.edu)

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

### Center for Multilingual Multicultural Studies

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

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

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

### Off-Campus College Credit Programs

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

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

## Institutes and Centers for Research

### Center for Applied Human Factors in Aviation (CAHFA)

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

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

### Center for Economic Education

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

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

### Dick Pope, Sr. Institute for Tourism Studies

*Director:* Abraham Pizam; 407-823-6202

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

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

### Executive Development Center

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

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

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



and tomorrow's opportunities.

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

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

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

## Florida Canada Linkage Institute

*Director:* Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649;  
*E-mail:* [fcli@mail.ucf.edu](mailto:fcli@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, culture, and trade between Canada and Florida. The Institute serves the entire State University System. The Institute administers the Florida Out of State Tuition Fee Exemption Program for Canadian students to study in Florida's universities and community colleges for the same tuition fees as Florida residents. The awards are competitive and limited to 25 FTE per year.

## Florida Eastern Europe Linkage Institute

*Director:* Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649;  
*E-mail:* [eeli@mail.ucf.edu](mailto:eeli@mail.ucf.edu)

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

## The John Scott Dailey Florida Institute of Government at the University of Central Florida

*Director:* Marilyn Crotty; 407-317-7745, Fax 407-317-7750.

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

## Florida Solar Energy Center (FSEC)

*Director:* James Fenton, 1679 Clearlake Road, Cocoa FL 32922-5703; 321-638-1007; Fax: 321-638-1010.

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

alternative energy. FSEC's international Renewable Energy Training and Education Center is providing educational programs for government and industry leaders around the world.

## Florida Space Institute (FSI)

*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](mailto: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 technology, teaches courses, and provides services to the scientific community. In cooperation with the Florida Space Authority, NASA / Kennedy Space Center, the Air Force, and statewide industry infrastructure, FSI works to facilitate engineering and science interactions within the state.

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

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

## Institute for Simulation and Training (IST)

*Director:* Randall Shumaker; 3280 Progress Drive, Orlando, FL 32826-0544; 407-882-1300; Fax: 407-658-5059;  
*E-mail:* [shumaker@ist.ucf.edu](mailto:shumaker@ist.ucf.edu); Website: <http://www.ist.ucf.edu>

The Institute for Simulation and Training (IST) was established to conduct research and develop technology that advances the state of the art in affordable and effective simulation capabilities and training systems. Driven by a proven record of research achievement, IST has developed unique qualifications and is positioned to provide the enabling technologies and technical talent necessary for future simulation development. In April 1985 a State of Florida resolution recognized the institute as part of the Center of Excellence for Simulation and Training.

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

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

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

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

## Special Academic Programs and Research Institutes

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 on clients' grant proposals. The Institute also provides statistical support to various government agencies and private organizations. For a brief description of consulting activities of the Institute and research expertise of faculty members, please visit (<http://www.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. Associate Professor Nizam Uddin ([nuddin@mail.ucf.edu](mailto:nuddin@mail.ucf.edu)) is the Director of the Institute. However, other faculty members from the Department of Statistics and Actuarial Science are available for assisting clients.

### **Institute for Technical Documentation**

*Director:* Karla Saari Kitalong; CNH 307E; 407-823-6257.

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

### **Oak Ridge Associated Universities (ORAU)**

*President and ORAU Councilor for University of Central Florida:* John C. Hitt

*ORAU Corporate Secretary:* Monnie E. Champion; 865-579-3306  
<http://www.orau.org>

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

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

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

### **Small Business Development Center (SBDC)**

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

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

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

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

### **Small Business Institute**

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

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

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

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

# 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:

### Burnett College of Biomedical Sciences

Bachelor of Science (B.S.)

*Majors:* Molecular Biology and Microbiology  
Medical Laboratory Sciences

### College of Arts and Humanities

Bachelor of Arts (B.A.)

*Majors:* Art, Digital Media, English, Film, Modern Languages Combination, French, History, Humanities, Music, Philosophy, Religious Studies, Spanish, Theatre

Bachelor of Fine Arts (B.F.A.)

*Majors:* Art, Film, Theatre

Bachelor of Music Performance (B.M.)

Bachelor of Music Education (B.M.E.)

Bachelor of Science (B.S.)

*Majors:* Digital Media, Photography

### College of Business Administration

Bachelor of Science in Business Administration (B.S.B.A.)

*Majors:* Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing

Bachelor of Arts

*Major:* Economics  
(Regional campuses only)

### College of Education

Bachelor of Science (B.S.)

*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.

### College of Engineering and Computer Science

Bachelor of Science

*Majors:* Aerospace Engineering (B.S.A.E.), Civil Engineering (B.S.C.E.), Computer Engineering (B.S.Cp.E.), Computer Science (B.S.), Electrical Engineering (B.S.E.E.), Electrical Engineering Technology (B.S.E.E.T.), Engineering Technology (B.S.E.T.), Environmental Engineering (B.S.Env.E.), Industrial Engineering (B.S.I.E.), Information Systems Technology (B.S.), Information Technology (B.S.), and Mechanical Engineering (B.S.M.E.).

### College of Health and Public Affairs

Bachelor of Arts (B.A.)

*Majors:* Communication Sciences and Disorders, Criminal Justice, Legal Studies, Public Administration

Bachelor of Science (B.S.)

*Majors:* Cardiopulmonary Sciences, Communication Sciences and Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Pre-Clinical Allied Health Track, Health Services Administration, Legal Studies, Public Administration, Radiologic Sciences

Bachelor of Science in Nursing (B.S.N.)

*Major:* Nursing

Bachelor of Social Work (B.S.W.)

*Major:* Social Work

### College of Sciences

Bachelor of Arts (B.A.)

*Majors:* Advertising/Public Relations, Anthropology, Interpersonal/Organizational Communication, Journalism, Political Science, Psychology, Radio-Television, Sociology

Bachelor of Science (B.S.)

*Majors:* Actuarial Science, Biology, Chemistry, Forensic Science, Mathematics, Physics, Psychology Statistics

### Rosen College of Hospitality Management

Bachelor of Science (B.S.)

*Majors:* Hospitality Management, Restaurant and Foodservice Management

### Office of Undergraduate Studies

Bachelor of Arts (B.A.)

*Major:* Liberal Studies

Bachelor of Science (B.S.)

*Majors:* Liberal Studies, Social Sciences

## Academic Minors by College

College Awarding Minor*	Name of Minor
Burnett College of Biomedical Sciences	Molecular Biology & Microbiology
College of Arts and Humanities	African American Studies, American Studies, Cognitive Sciences, Digital Media, Judaic Studies, Latin American Studies, Middle Eastern Studies, Music, Women's Studies
College of Business Administration	Accounting, Business Administration (for non-Business Administration majors), Economics (for non-Business and Business majors), International Business, Management Information Systems, Marketing (for Business and non-Business majors), Real Estate (for Business and non-Business Majors), Sport Business Management (for Business Majors Only)
College of Education	Coaching, Early Childhood Education, Exceptional Education, Fitness Training, Technical Education and Industry Training
College of Engineering and Computer Science	Aerospace Studies, Engineering Leadership & Management, Military Science, Secure Computing and Networks, Space Studies, Intelligent Robotic Systems, Technology and Society Information Technology, Computer Science
College of Health and Public Affairs	Aging Studies, American Humanics, American Sign Language, Communication Sciences and Disorders, Criminal Justice, Deaf Studies, Emergency Management and Homeland Security, Health Sciences, Health Services Administration, Health Information Management, Legal Studies, Public Administration, Urban and Regional Planning
College of Sciences	Anthropology, Anthropology in Multicultural Studies, Astronomy, Biology, Chemistry, European Studies, Interpersonal Communication, Magazine Journalism, Mass Communication, Mathematics, North American Indian Studies, Organizational Communication, Physics, Political Science, Political Science/Prelaw, Psychology, Sociology, Statistics Environmental Studies, Social Sciences-Interdisciplinary
Rosen College of Hospitality Management	Hospitality Management Event Management

## Academic Minors by Department

School/Department Awarding Minor*	Name of Minor
Multidisciplinary	Space Studies
Department of Aerospace Studies	Aerospace Studies (Air Force ROTC)
Department of Anthropology	Anthropology, Anthropology in Multicultural Studies
Department of Art	Art History, P.A.V.E., Art-Studio
Department of Biology	Biology
Department of Chemistry	Chemistry
Nicholson School of Communication	Interpersonal Communication, Organizational Communication, Mass Communication, Magazine Journalism
Department of English	Technical Writing and Editing, Creative Writing, Literature, Linguistics, Writing
Department of Film	Cinema Studies
Department of History	History
Department of Mathematics	Mathematics
Department of Military Science	Military Science (Army ROTC)
Department of Music	Music
Department of Modern Languages and Literatures	French, German, Italian, Spanish
Department of Philosophy	Humanities, Philosophy, Religious Studies
Department of Physics	Astronomy, Physics
Department of Political Science	Asian Studies, European Studies, Political Science, Political Science/Pre-Law
Department of Psychology	Clinical, Human Factors, Industrial/Organizational
Department of Sociology	Sociology
Department of Statistics	Statistics
Department of Theatre	Theatre

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

### Office of Undergraduate Studies

Environmental Studies Minor  
Social Sciences Interdisciplinary Minor  
World Comparative Studies Minor

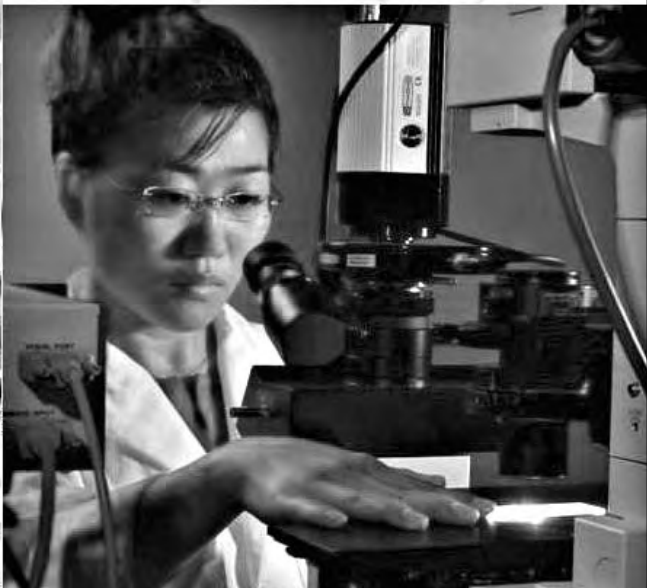
Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

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.

## Graduate Programs

See description at the beginning of each college section. For further information on a particular program or graduate fellowships, contact the departmental office in the respective college or see the *Graduate Catalog*; <http://www.graduate.ucf.edu/catalog/>.

# THE BURNETT COLLEGE OF BIOMEDICAL SCIENCES



COLLEGES

## The Burnett College of Biomedical Sciences

*Dean:* P.E. Kolattukudy; BMS 136; 407-823-1312, Fax 407-823-0956  
*Associate Dean:* Roseann White; HPA II 335J; 407-823-5932

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

The Burnett College of Biomedical Sciences became the 9<sup>th</sup> college in UCF on August 10, 2004 with the goal of building a nationally and internationally recognized biomedical research and education enterprise. The college initially has over 1,400 undergraduates and 75 graduate students who, along with faculty, conduct research to find novel treatments for cancer, cardiovascular diseases, neurodegenerative diseases and infectious diseases.

## Programs and Degrees

**Program**  
 Molecular Biology and Microbiology  
 Medical Laboratory Sciences  
 Biomolecular Science

**Degree**  
 B.S., M.S., Minor  
 B.S.  
 Ph.D.

## Department of Molecular Biology and Microbiology

*Chair:* P.E. Kolattukudy; BMS 136; 407-823-1312  
*Assistant Chair:* Roseann White; HPA II 335J; 407-823-2914  
*Undergraduate Coordinator:* Dorilyn Hitchcock; HPA II 335A; 407-823-5932  
*Graduate Coordinator:* Karl Chai; BMS 323; 407-823-6122  
*Faculty:* K. Chai; D. Chakrabarti; R. Chakrabarti; S. Chan; J. Cheng; A. Cole; H. Daniell; S. Ebert; C. Fernandez-Valle; R. Gennaro; D.

# The Burnett College of Biomedical Sciences

Hitchcock; K. Ireton; A. Khaled; P. Kolattukudy; G. Lopez; W. Lopez-Ojeda; Y. Lu; F. Morgan; M. Muller; S. Naser; W. Safranek; M. Samsam; W. Self; K. Sugaya; S. Tatulian; K. Teter; J. Turkson; R. White; A. Zervos.

The Department of Molecular Biology and Microbiology offers a Bachelor of Science degree, a Master of Science degree and a Minor in Molecular Biology and Microbiology. The department also offers a Bachelor of Science degree in Medical Laboratory Sciences. The Molecular Biology and Microbiology programs prepare students for entry into any professional schools in health sciences, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry. The programs also prepare students entering the technical workforce in biotechnology, pharmaceutical and/or any other medical technology industry. The department is a major partner in the interdisciplinary PhD program in Biomolecular Science.

## Program in Molecular Biology and Microbiology

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

**Degrees:** Molecular Biology and Microbiology (BS, MS)  
**Tracks:** Molecular Biology and Microbiology Preprofessional Track (BS)  
**Minors:** Molecular Biology and Microbiology

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

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

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

## Program in Medical Laboratory Sciences

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

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

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

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

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

**Degrees:** Medical Laboratory Sciences (BS)  
**Tracks:** None  
**Minors:** None

## Office of Student Services and Advisement (OSSA)

*Academic Advisor:* Cynthia María Contreras; HPA II 335H; 407-823-5787

*Academic Advisor:* Ana Maria Schwindt; HPA II 335G; 407-823-1259  
*E-mail:* bcbsinfor@mail.ucf.edu

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

## Biomolecular Science Center

*Director:* P.E. Kolattukudy; BMS 136; 407-823-1312

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

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

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

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

**Degrees:** Biomolecular Science (Ph.D.)  
**Tracks:** None  
**Minors:** None

## Pre-health Professions Advisement Office

*Director:* Gennaro Lopez; HPA I 124; 407-823-2670

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

For more information regarding this office, please refer back to the "Academic Advising" section of this *Undergraduate Catalog*.

# THE BURNETT HONORS COLLEGE



## **The Burnett Honors College**

*Dean:* Alvin Wang; The Burnett Honors College;  
407-823-2076, Fax 407-823-6583

*Director of Research and Civic  
Engagement:* Kelly Astro

*Director of Student Services:* Madi Dogariu

*Director of Computer Operations:* Andrew Holloway

*Director of Student Affairs:* Jill Norburn

*Director of Administrative Services:* Donna Plaisted

*Director of Student Development:* Lisa Sklar

*Director of Advising:* Peter Wallace

<http://www.honors.ucf.edu>

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

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

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

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

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

## University Honors

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

Students must maintain a minimum 3.2 UCF GPA and a minimum 3.0 GPA in Honors courses to remain in University Honors. In addition to meeting the GPA requirements, to graduate with University Honors the student must: 1) complete 12 hours of Honors lower-division course work<sup>1</sup>; 2) complete with a "Satisfactory" (S) grade Honors Symposium<sup>2</sup>; and 3) meet upper-division Honors course requirements determined by college or major<sup>3</sup>.

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 a waiver of credit for one upper-division Honors Seminar<sup>4</sup> upon completion of six or more hours of upper-division credit for the following programs: 1) University Study Abroad Program; 2) The Washington Center; and 3) Research Experiences for Undergraduates (REU) program. Students may receive a waiver of credit for one upper-division Honors Seminar<sup>4</sup> upon satisfactory completion of a graduate level course while taken as an undergraduate student. Students may only receive a waiver of credit once for each category listed.

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

## Summary Table of University Honors Requirements

Symposium	Lower-division	Upper-division Major
1 hour	12 hours	See requirements by College <sup>3</sup>

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

<sup>2</sup> Honors Symposium is a one credit hour course offered in the Fall semester of each year. This course includes guest lectures, video and film presentations, and live performances by guest artists. Only one absence is permitted. A field trip is included as part of the Honors Symposium. Attendance at this series will be mandatory for all students seeking University Honors. The course is graded on a Satisfactory/Unsatisfactory basis.

<sup>3</sup> These upper-division requirements for the completion of University Honors are under review and revision by the professional colleges.

The current requirements are as follows:

■ **University Honors Upper-Division Program Requirements: College of Arts and Humanities, College of Education, College of Sciences, Rosen College of Hospitality Management, and Medical Laboratory Sciences, Engineering Technology, and Information Technology majors**

1. Complete one Honors Interdisciplinary Seminar<sup>4</sup> (3 hrs)
2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars<sup>4</sup> (6 hrs)

■ **University Honors Upper-Division Program Requirements: College of Business Administration**

1. Complete one Honors Interdisciplinary Seminar<sup>4</sup> (3 hrs)
2. Complete two Honors upper-division Business courses (6 hrs)
 

BUL 3130H	Honors Legal and Ethical Envir't of Business	3 hrs
GEB 3356H	Honors Introduction to International Business	3 hrs
MAR 3023H	Honors Marketing	3 hrs
FIN 3403H	Honors Business Finance	3 hrs
MAN 3025H	Honors Management of Organizations	3 hrs

Note: Please refer to the "UCF Courses and Descriptions" section of this Undergraduate Catalog for information on direct prerequisites for the above courses.

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

■ **University Honors Upper-Division Program Requirements: College of Engineering and Computer Science Excluding Computer Science, Information Technology and Engineering Technology**

1. Complete one Honors Interdisciplinary Seminar<sup>4</sup> outside the student's department of major (although it may be within the College of Engineering and Computer Science) (3 hrs)
2. Complete two Honors upper-division Engineering courses (6 hrs)
 

STA 3032H	Probability and Statistics for Engineers	3 hrs
EGN 3310H	Engineering Analysis-Statics	3 hrs
EGN 3321H	Engineering Analysis-Dynamics	3 hrs
EGN 3373H	Principles of Electrical Engineering	3 hrs
3. Complete the Honors Engineering Research Seminar (3 hrs)
 

EGN 4931H	Honors Seminar-Research	
-----------	-------------------------	--

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

■ **University Honors Upper-Division Program Requirements: Computer Science majors**

1. Complete one Honors Interdisciplinary Seminar<sup>4</sup> (3 hrs)
2. Complete two Honors upper-division Computer Science courses (6 hrs)
 

COP 3502H	Computer Science I	3 hrs
COP 3503H	Computer Science II	3 hrs
COT 3100H	Introduction to Discrete Structures	3 hrs
ENC 3241H	Writing for the Technical Professional	3 hrs

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

■ **University Honors Upper-Division Program Requirements: College of Health and Public Affairs (COHPA) excluding Nursing majors.**

1. Complete one Honors Interdisciplinary Seminar<sup>4</sup> (3 hrs)
2. Complete with a grade of "B" or better ZOO 3733H Honors Human anatomy (3 hrs)
3. Complete with a grade of "B" or better PCB 3703H Honors Human Physiology (3 hrs)

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

■ **University Honors Upper-Division Program Requirements: Burnett College of Biomedical Sciences excluding Medical Laboratory Sciences majors.**

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

<sup>4</sup>An Honors Seminar normally is an upper-division offering intended for all majors. Most seminars are strongly interdisciplinary, may be team-taught, and present cutting-edge topics by faculty who must present course proposals for consideration by the University Honors Committee. Enrollments are limited to 20 students. At least one of these seminars will form part of the revised University Honors upper-division curriculum currently under adoption by each college or major.

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

[http://www.honors.ucf.edu/usf\\_medschool.html](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
  - Other majors are available using the 4 + 4 option
- The Burnett Honors College will provide oversight of the student's progress in meeting Honors requirements and will coordinate overall completion of the first three years of the program. Students will receive advisement and schedule planning assistance each semester from a department advisor and the Pre-professional advisor.

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

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

## Eligibility Requirements

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

## Honors in the Major

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

Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credit including at least 12 graded upper-division hours at the University of Central Florida; at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses regardless of institution. Students must also seek approvals by the department from which Honors in the Major is sought and from the Director of Research and Civic Engagement 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. For Molecular & Microbiology students only, BSC 3404H may substitute for Honors Directed Readings. 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 Research and Civic Engagement of TBHC. The student must receive a grade of at least "B" in all Honors in the Major course work to be awarded Honors in the Major.

The student must file an "Intent to Graduate with Honors in the Major" form with the TBHC Office of Research and Civic Engagement by the last day of classes of the semester preceding their anticipated graduation date. A student who completes all of the requirements for Honors in the Major, including maintaining at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division 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 [honorsresearch@mail.ucf.edu](mailto:honorsresearch@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 fall, spring, or summer semester research. Students seeking more information about SMART should visit [http://www.honors.ucf.edu/SMART\\_main.html](http://www.honors.ucf.edu/SMART_main.html)

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

## Office of Student Scholarship and Fellowship Advisement

The Office of Student Scholarship and Fellowship Advisement (OSSFA) serves all UCF students who are eligible to apply for prestigious scholarships such as the Rhodes, Truman, Gates, and Marshall. Because TBHC is UCF's campus representative for all prestigious scholarships, applicants for scholarships that require institutional nomination must contact OSSFA prior to the application process. Students seeking detailed information about prestigious scholarships and the application process should visit [http://www.honors.ucf.edu/scholar\\_main.html](http://www.honors.ucf.edu/scholar_main.html). All students who are applying for a prestigious scholarship or fellowship are encouraged to contact the OSSFA office for assistance with their applications, even if the scholarship does not require institutional endorsement. Students seeking more information should contact OSSFA in BHC 103 or by phone at 407-823-0325 prior to the application process.



## College of Arts and Humanities

*Dean:* Jose Fernandez; CAS 190;  
407-823-2251

*Associate Dean:* Lyman Brodie; CAS 190; 407-823-2251

*Assistant Dean:* Consuelo Stebbins; CAS 190; 407-823-2251

The College of Arts and Humanities includes the following departments: Art, English, Modern Languages & Literatures, History, Music, Philosophy, and Theatre. The College also houses programs in Judaic Studies, Latin American, Caribbean and Latino Studies, Women's Studies, Middle Eastern Studies and the School of Film and Digital Media.

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the areas of humanities and arts. The departments collectively offer more than 60 baccalau-

reate and graduate programs. For additional information concerning graduate programs, please refer to the *Graduate Catalog*.

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

A student enrolled in the College as an undergraduate must fulfill all University degree requirements including those for general education as well as the particular requirements set forth within each area of specialization. Computer proficiency is determined within the student's department of major. Depending on the program evaluation may be via a written test, relevant projects, or specific exercises

within a course or an entire course dealing with computers. To be certified for graduation, a student must achieve at least a "C" GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in each major course. Students are advised to consult their departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign 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:* Jennifer Mundale; CNH 411L; 407-823-5076

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts background, regardless of major field. A Bachelor of Arts or

Bachelor of Science degree with approximately three-fourths of the course work representing theory content is typically suggested. Majors such as English, History, Legal Studies, Philosophy, Sociology, and Political Science meet this criterion. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that the Law School Admission Test (LSAT) be taken prior to consideration for admission. General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-law Advisor.

Advisement of pre-law students will be provided in the area where a major is chosen. For example, a pre-law student who desires to emphasize the historical foundations should seek advisement in the Department of History; for emphasis in political science advisement should be sought in the Department of Political Science; emphasis in economics should be gained through advisement in Economics programs in either the College of Arts and Humanities 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 Humanities 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](mailto: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 Humanities and the College of Sciences. OASIS assists students in the Colleges with degree requirements, policies



and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits.

Questions concerning University and College academic policies affecting the College of Arts and Humanities and the College of 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 multidisciplinary programs that focus on specific regions or cultural groups. UCF has four area studies programs with an international focus: Asian; Judaic; Latin American, Caribbean, and Latino Studies; and Middle Eastern. Although the academic home of these programs is the College of Arts and Humanities, faculty and students from across the entire university may participate in them. These programs may be elected as minors by students majoring in any discipline within the university. For more information about the

programs and contact numbers of the program directors see the list below. Contact the Office of International Studies for assistance or referral for all international inquiries regarding academic programs.

**Asian Studies** - Contact: Consuelo Stebbins, 407-823-2251

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

**Latin American, Caribbean and Latino Studies** - Contact: Luis Martinez-Fernandez; 407-823-1173

**Middle Eastern Studies** - Contact: Husain Kassim; 407-823-2803

## International Study Centers

### Undergraduate Inter-institutional Transient Program

The State University System operates study centers in London, England and Florence, Italy during the Fall and Spring semesters. Students with 27 or more semester hours of credit and a minimum GPA of 2.5 or above in all state universities are eligible to apply for one or both semesters as inter-institutional transient students. Faculty at the centers are drawn from the nine state universities. While credits are earned through Florida State University, which administers the program on behalf of the State University System, credits are fully transferable within the System. Students at the Centers are considered to be resident in their home institutions for attendance and degree purposes.

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

## Programs, Tracks, and Degrees

Title	Degree
African-American Studies	Minor
American Studies	Minor
Animation	BFA
Art	BA, BFA, Minor, MFA
Asian Studies	Minor
Cinema Studies (Film)	BA, Minor
Community Arts - PAVE	Minor
Digital Media	BA, BS, Certificate, Minor
English	BA, MA, Minor, MFA, Ph.D., Certificate

# The College of Arts and Humanities

Film	BFA
Modern Language Combination	BA
French	BA, Minor
German	Minor
History	BA, MA, Accelerated MA, Minor
Humanities	BA, Minor
Italian	Minor
Jazz Studies	Certificate
Judaic Studies	Certificate, Minor
Latin American Area Studies	Minor
Middle Eastern Studies	Minor
Music	BA, BM, Minor
Music Education	BME
Philosophy	BA, Minor
Religious Studies	BA
Spanish	BA, MA, Minor
Teaching ESL	MA
Theatre	BA, BFA, MA, MFA, Minors in Dance, Theatre
Translation and Interpretation	Certificate
Women's Studies	BA, Minor, Certificate

## Departments and Programs

### African-American Studies: Program

<http://www.cas.ucf.edu/africanamericanstudies>

*Program Director:* Dr. JoAnne Stephenson; CNH 201G; 407-823-0026

The College of Arts and Humanities offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from a multi-disciplinary perspective. The program is designed to enhance and complement the student's major area of study. The minor incorporates courses from many different disciplines including Music, Fine Arts, History, English, Foreign Languages, Political Science, Psychology, Sociology, Anthropology, Film, and Theater. The program's interdisciplinary approach emphasizes the artistic and intellectual traditions of African Americans, and is dedicated to developing expertise and knowledge of the black experience in the African Diaspora.

**Degrees:** None

**Tracks:** None

**Minors:** African-American Studies

### American Studies: Program

*Contact:* Consuelo Stebbins; CAS 190; 407-823-2251 Email: [stebbins@mail.ucf.edu](mailto:stebbins@mail.ucf.edu)

The College of Arts and Humanities 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

### Asian Studies: Program

*Contact:* Consuelo Stebbins, CAS 190, 407-823-2251

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

### Department of Art

<http://reach.ucf.edu/~art>

E-mail: [art@ucf.edu](mailto:art@ucf.edu)

*Chair:* Mark Price; VAB 117; 407-823-2676

*Faculty:* Abbas, Abraham, Burkhart, Burrell, Chavda, Cooper, Cutler, Francis, Gaudnek, Gonzalez, Hall, Haran, Haxton, Kilmer, 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 anima-

tion, 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

### Community Arts—PAVE: Program

*Program Director:* Kevin Haran; VAB 117; 407-823-2676

A minor in Community Arts—Partners in Art in Visual Education (PAVE) is offered for the student who is majoring in Art, Music, Theatre, or English.

**Degrees:** None

**Tracks:** None

**Minors:** Community Arts

### English: Department

<http://www.english.ucf.edu>

E-mail: [english@ucf.edu](mailto:english@ucf.edu)

*Chair:* Thomas Krise; CNH 405; 407-823-1159

*Faculty:* Angley, Applen, Barnes, Bartkevicius, Bell, Bowdon, Bowie, Brain, Brodtkin, Campbell, Carpenter, Casmier-Paz, Cato, Davidson, Dombrowski, Flammia, Fox, Graieda, Gomrad, Hemschemeyer, Hepner, Hohenleitner, Hubbard, A. Jones, D. Jones, Kamrath, Kesler, Kitalong, Lamazares, Leiby, Lillios, Logan, Marinara, Mauer, Meehan, Morton, Murphy, Oliver, Owens, Pugh, Rodriguez-Milanes, Roney, Rushin, Saper, Schell, Scott, Seidel, Smith, Spraker, Stap, Telep, Thaxton, Trouard, Wallace, Young.

*Professors Emeriti:* Adicks, Omans, Schiffforst

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, MFA, Ph.D)

**Tracks:** Literature, Creative Writing, Technical Writing

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

### School of Film and Digital Media

*Interim Director:* Terry Frederick

407-823-0362

*Administrative Assistant:* Sue Ann Mann; 407-823-0362

#### Digital Media: Program

E-mail: [dmdirector@mac.com](mailto:dmdirector@mac.com)

*Division Head:* Clint Bowers; OTC5 500; 407-823-1733

*Faculty:* Blue, Bowers, Cannon-Bowers, Carbone, Croft, Curasi, Deaery, Frederick, Gourlay, Hadrika, Hall, Hughes, Kenny, Moshell, McDaniel, Peters, Salisbury, Stapleton, Sung, Underberg, Weaver, Wirth.

Digital Media is a four year curriculum with areas of specialization in Visual Language and Interactive Media. Basic concepts in digital technology, story and performance are fundamental to the curriculum. There are strong interests in digital production and entertainment, serious games, internet issues and the development of digital media presentations via various electronic capabilities.

Digital media partners with several companies in the area with internships, research activities and graduate work in game development.

**Degrees:** Digital Media (BA)

**Tracks:** Digital Interactive Systems and Visual Language

**Minors:** Minor, Certificate

**Film: Program**

<http://www.film.ucf.edu>

E-mail: [film@ucf.edu](mailto:film@ucf.edu)

*Division Head:* Steve Schlow; COM 121; 407-823-0694

*Faculty:* Blum, Congdon, Cook, Fluegel, Gerstein, Harpole, Harris, Ingle, Johnson, Jones, Rohdie, Sandler, Schlow, Stockl, Yearwood

Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student's creative voice, and stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of their work. Encompassing all aspects of filmmaking from conceptualization to distribution, the department prepares students to become effective independent filmmakers.

Graduating seniors are required to complete a capstone film, script, or digital media project. Concentrations include: filmmaking, screenwriting, digital cinema, and cinema studies. Community partners include: Universal Studios Florida, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the "limited access" program by submitting an application form and creative portfolio by 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)

**Department of History**

<http://pegasus.cc.ucf.edu/~history>

E-mail: [history@ucf.edu](mailto:history@ucf.edu)

*Chair:* Edmund Kallina; CNH 505A; 407-823-5450

*Faculty:* Adams, Beiler, Cassanello, Clark, Crepeau, Downing, Farless, Fernandez, Foster, Gordon, Greenhaw, Herlihy, Kallina, Lester, Lyons, Martinez-Fernandez, Solonari, Stockdale, Walker, White, Zhang

History is the study of the past. Its objective is to understand the past, and through the past, to understand the present. The discipline of history is more than 2,500 years old and remains a vital body of knowledge in the 21st century.

Students who are interested in becoming a lawyer should seriously consider a major in history as a foundation for law school. Law is a historical phenomenon and part of the political, social, and economic processes that have contributed to the success of the United States. An understanding of history lends great insight to the function of, and motives behind the legal system. In addition, a careful study of history will enable the student to become effective in oral and written communication, while developing intellectual skills in critical thought and analysis, both of which are invaluable to the study of law.

The Department participates in the programs in Women's Studies, American Studies, African-American Studies, Asian Studies, and Latin American, Caribbean and Latino Studies.

**Degrees:** History (BA, MA, Accelerated MA)

**Tracks:** None

**Minors:** History

**Judaic Studies: Program**

[http://www.cas.ucf.edu/judaic\\_studies](http://www.cas.ucf.edu/judaic_studies)

E-mail: [judaicst@ucf.edu](mailto:judaicst@ucf.edu)

*Program Director:* Professor Moshe Pelli; CNH 201, 407-823-5039 or 823-5129

*Faculty:* Hanson

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The program offers instruction, conducts research, and disseminates knowledge in the civilization of the Jewish people from Biblical times to the present day in the major dimensions of its creativity: literature, language, religion, philosophy, law, and social, political and economic organization. Because the roots of western culture and civilization and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Judaic Studies form an essential component of the university's curricula.

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

**Degrees:** None

**Tracks:** None

**Minors:** Judaic Studies, Certificate

**Latin American Program**

E-mail: [marfern@mail.ucf.edu](mailto:marfern@mail.ucf.edu)

*Program Director:* Luis Martinez-

Fernandez; VAB 203; 407-823-1173

The Latin American Area Studies Minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand Latin America, the Caribbean and Latinos in the United States. Students completing the minor will be prepared to apply their knowledge on the areas covered by the minor in a variety of careers including, but not limited to education, government, journalism, foreign service, social and community service, international trade, and public relations.

**Degrees:** None

**Tracks:** None

**Minors:** Latin American Area Studies

**Middle Eastern Studies Program**

E-mail: [kassim@mail.ucf.edu](mailto:kassim@mail.ucf.edu)

*Program Director:* Husain Kassim, CNH 411J, 407-823-2803

*Advisory Board Co-Chairs:* John C.

Bersia, Janan Smither

An interdisciplinary minor designed to offer students both an overview of Middle Eastern civilization and a detailed study of its most important features. The focus of the program is on the religious, political, historical and social forces shaping the region.

Course work will include classes from the curricula of participating programs (modern languages, history, humanities, Judaic studies, philosophy and political science).

**Degrees:** None.

**Tracks:** None.

**Minors:** Middle Eastern Studies

**Department of Modern Languages and Literatures**

<http://www.cas.ucf.edu/forlang/>

E-mail: [foreignlanguages@ucf.edu](mailto:foreignlanguages@ucf.edu)

*Chair:* Paul Giordano; CNH 523; 407-823-2472

*Faculty:* Barberet, Barsch, Decker, Fabery, Fernandez, Ferri, Folse, Garcia, Gervasi, Korosy, Leticee, Lopez, Montalvo, Nalbene, Negy, Pollgreen, Prucha, Purmenski, Redmon, Rivera, Sipin, Spina,



## The College of Arts and Humanities

Stebbins, Taylor, Trinquet-Balak, Villanueva, Vitanova, Micarelli (Professor Emeritus)

The Department provides instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a Combination Major (two languages). The language combinations may consist of French, German, or Spanish as a first language, and any of these three, plus Italian, as a second language.

These programs are designed to meet the needs of students who desire competency in a language and expanded understanding of a foreign culture and literature. Students desiring to major in a foreign language must meet all the requirements for graduation as set forth by the University, the College of Arts and Humanities, and by the Department of Modern Languages and Literatures.

**Degrees:** French (BA), Spanish (BA, MA), Modern Language Combination (BA), TESOL (MA)

**Tracks:** None

**Minors:** French, German, Italian, Spanish

### Department of Music

<http://www.cah.ucf.edu/music/>

E-mail: [music@ucf.edu](mailto:music@ucf.edu)

**Chair:** Johnny Pherigo; CNH 205; 407-823-2869, Fax 407-823-3378

**Faculty:** Almeida, Boukobza, Brodie, Brownlow, Brunner, Cardarelli, Garcia, Gay, Greenwood, Harrison, Holcomb, Hunt, Koons, Kraut, Macklem, Marosi, Moore, Montague, Palmer, Pickering, Potter, Rupert, Scharron, Stephenson, Sung, Thornton, Warfield, Weremchuk, Yonetani

**Part-Time Faculty:** Bagley, Fox, Hawkins, Hill, Hsu, Randall, Robertson, Titus, Schultz, Wei

The Department of Music offers a Bachelor of Music degree with options in performance and composition; a Bachelor of Arts Degree in music; and a Bachelor of Music Education Degree with specializations in instrumental, choral and elementary school music. The Music Education programs are approved by the Florida State Department of Education. Students who desire to be certified to teach in elementary and secondary schools should major in Music Education.

Courses leading to teacher certification are offered cooperatively with the College of Education. Master of Arts and a Master of Education degrees in Music Education are offered by the College of Education. The Music Department is fully accredited by the National Association of Schools of Music. Music organizations on campus include Pi Kappa Lambda, Phi Mu Alpha, Sigma Alpha Iota, Tau Beta Sigma, Kappa Kappa Psi, Student Chapters of MENC and ACDA, and Music Student Advisory Council.

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

**Tracks:** Music Performance, Composition

**Minors:** Music

### Department of Philosophy

<http://www.cas.ucf.edu/philosophy>

E-mail: [philosophy@ucf.edu](mailto:philosophy@ucf.edu)

**Chair:** Shaun Gallagher; CNH 411; 407-823-2273

**Faculty:** Cash, Compson, Congden, Coverston, DiBernardo, Evans, Hawkins, Jaeger, Janz, Jones, Kassim, Mundale, Park, Schippert, Stanlick, Strawser, VanHook

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

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

**Tracks:** Regular and Honors

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

### Department of Theatre

<http://theatre.ucf.edu>

E-mail: [theatre@ucf.edu](mailto:theatre@ucf.edu)

**Chair:** Roberta Sloan; UTC 111; 407-823-2862.

**Faculty:** Alrutz, Bell, Boyd, Brotherton, Brown, Chicurel, Columbus, Flannery, Harris, Helsinger, Huaixiang, Ingram, Lartonoix, Lee, Listengarten, Melita, Niess, Ruscella, Rusnock, Schellhardt, Scott, Seay, Shafer, Siegfried, Smith (Professor Emeritus), St. Claire, Stribling, Tollefson, Vernon, Weaver, Woods, Wooten, Wuehrman

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

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

**Tracks:** Acting, Design and Technology, Design, Stage Management, Musical Theatre, Theatre for Young Audiences, Theatre Studies

**Minors:** Dance, Theatre

### Women's Studies: Program

<http://www.cas.ucf.edu/womensstudies>

E-mail: [womenst@ucf.edu](mailto:womenst@ucf.edu)

**Program Director:** L. M. Logan ; CNH 201H; 407-823-6502

**Faculty:** Preston, Oliver

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

**Degrees:** BA (Liberal Studies)

**Tracks:** Women's Studies Track in Liberal Studies

**Minors:** Women's Studies, Certificate

# THE COLLEGE OF BUSINESS ADMINISTRATION



## College of Business Administration

*Dean:* Thomas L. Keon, BA 230;  
407-823-2181

*Associate Dean:* Bradley M. Braun,  
BA 230L; 407-823-5094

*Associate Dean:* E. Taylor Ellis, BA2 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

## The College of Business Administration

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, and a 2.0 GPA.
- Common Program Prerequisites with a 2.0 GPA and "C" or better in each class.

Students who otherwise meet the University admission requirements, such as entering freshmen and transfer students, will be placed in a major pending category until they meet the requirements set forth above. Only grades of "C" (2.0) or higher will transfer into the program. Each student should attend orientation for academic advising and should meet with an academic advisor in the College to outline a program of study.

### BE2010

**UCF Business... the Best Undergraduate Business Education in Florida.** In 1993 the UCF Business faculty established a goal to deliver the best undergraduate business education in Florida. The product of the alumni, faculty, business leaders, and students, the Business Education 2000 (BE2000) curriculum focused on four competencies that are integrated throughout all coursework: Teamwork, Communication, Creativity, and Adapting to Change. These four competencies were expanded in 2002 to include Ethics and Diversity and constitute the BE 2010 curriculum. Faculties, working with representatives from the business community, help you develop these competencies as you work through the following required courses in the Common Body of Knowledge:

GEB 3031	Cornerstone
GEB3356	Introduction to International Business
BUL 3130	Legal and Ethical Environments of Business
ECO 3411	Quantitative Business Tools II
FIN 3403	Business Finance
MAN 3025	Management of Organizations
ISM 3011	Essentials of Management Information Systems
MAR 3023	Marketing
MAN 4720	Strategic Management

### Grade Point Average Requirements

For graduation the student must have maintained a minimum 2.0 GPA in course work taken in the College of Business Administration and a minimum 2.0 GPA in the course work required in the major, and a UCF minimum GPA of 2.0. In addition, all majors within the College of Business Administration also require a grade of "C" (2.0) or better in *each* course within the major.

### Student Load

A student who is enrolled in 15 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 in the Fall and Spring terms, and 14 semester hours in the Summer term must obtain permission from the College.

### Community/Junior College Transfer Notes

1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida's community and junior colleges should complete the following courses as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 2011), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023, (or QMB 2100) and CGS2100. 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 com-

plete 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; BA2 101; 407-823-2184

The Office of Undergraduate Student Services (USS) is the primary office for undergraduate assistance in the College of Business.

Degree requirements, registration, and any questions concerning University and College academic policies affecting Business majors should be directed to the Office of Undergraduate Student Services staff in BA11 101 or by calling 407-823-2184. Visit USS's home page at: <http://www.bus.ucf.edu/uss/>

### Programs and Degrees

Title	Degree
Accounting	BSBA, MSA, MST
Business Administration	MBA, Ph.D.
Economics	BSBA, MAAE, Ph.D.
Finance	BSBA
General Business	BSBA
Management Information Systems	BSBA, MS
Management	BSBA, MS HR
Marketing	BSBA
Business (Regional campuses only)	BABA

### Departments and Programs

#### Kenneth G. Dixon School of Accounting

*Director:* R. Roberts, Director; BA 437; 407-823-2871

*Assistant to Director:* M. Hampton; BA 438; 407-823-5678

*Faculty:* Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kelliher, Klintworth, Lacy, Mahoney, Roberts, Roush, Savage, Smith, Vaughen, Veit, J. Welch,

#### Mission Statement

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

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

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

The objective of the baccalaureate program with a concentration in accounting is to provide basic conceptual accounting and business knowledge as a foundation for accounting career development. The undergraduate degree also is the first step toward becoming a Certified Public Accountant, Certified Management Accountant and Certified Internal Auditor. The Kenneth G. Dixon 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:* W. Milon; BA2 305-D; 407-823-3266, economics@bus.ucf.edu

*Faculty:* Anton, Braun, Buhagiar, Caputo, Dickie, Elston, Euzent, Finnoff, Gerking, Gibbs, Hamilton, Harrison, Hofler, Hosni, Im, Martin, McHone, Mikhael, Milon, Moore, Pennington, Potter, Rungeling, Rutstrom, Scrogin, Soskin, Tramell, Underwood, White  
*Faculty Advisor:* R. Pennington; BA2 303-B; 407-823-2640

Economic issues dominate today's news and public debates more than ever before. Inflation, unemployment, health care, economic growth, pollution, poverty, and international economic relations are a few of these issues. The primary strength of economics is that it provides a logical, ordered way of looking at most problems and issues. Undergraduate education in economics equips individuals to both better understand and seek solutions to these issues.

The Department of Economics participates in two undergraduate degree programs: a BSBA degree and a BA degree. The purpose of the BSBA Economics Program is to provide students with a professional business background that prepares them for careers in private business and government. The purpose of the economics BA Program is to provide a broad-based liberal arts background that can serve as a strong foundation for further graduate studies in law, social sciences, and other fields or as training for careers in politics, teaching, research, social service, and other areas. Both programs enable students to better understand the economic and non-economic issues that are confronted in their jobs and their private lives and to provide the analytical skills that will allow them to resolve 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.
- 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:** Business Economics (BSBA, MAAE, Ph.D.)  
Economics (BA)

**Minors:** Economics

## Department of Finance

*Chair:* A. Byrd; BA 409; 407-823-3575

*Faculty:* Ajayi, Atkinson, Block, Borde, Byrd, Chen, Cheney, Choi, Dalrymple, Frye, Gilkeson, Gregg, McQuillen, Modani, Park, Ragozzino, Ramanlal, Scott, Schnitzlein, Singer, Smith, Weaver, Whyte

The program in finance is designed to provide the student with broad knowledge in finance, including business finance, investments, financial institutions, international finance, risk management and insurance, and real estate. The program provides the student with the theoretical background and tools of analysis required for making

effective financial decisions. The study of finance prepares the student for careers in business financial management.

## Distinctive Benefits

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

**Degrees:** Finance (BSBA), Real Estate (BSBA)

**Minors:** International Business, Real Estate, Finance

**Certificates:** Banking, Commercial Real Estate, Investments Real Estate, Residential Real Estate, Corporate Finance, Investments

## General Business

*Faculty Advisor:* B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

**Degrees:** General Business (BSBA, MBA, Ph.D)

**Minors:** For non-Business majors

## Department of Management

*Chair:* F. Jones; BA 335; 407-823-2679

*Faculty:* Ambrose, Arnaud, Barringer, Becker, Bogumil, Butcher, Callahad, Connell, Fernald, C. Ford, R. Ford, Holland, Huseman, Keon, Migenes, McDonald, Putschinski, 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 specialized areas of Entrepreneurship and Human Resource Management, or students can choose to major in General Management which allows them to take a broader variety of course work and prepares them for general management responsibilities.

The General Management major prepares students for a career that involves decision making responsibilities regardless of organization or assignment. The department goal is to emphasize the expertise, knowledge, and skills necessary to be not only a team player, but ideally a team leader. Whether the student is studying leadership, motivation, staffing, or international management, the curriculum will sharpen students' skills in problem identification, analysis, and solution. The major can lead to a variety of rewarding careers in management positions throughout the organization. The department offers more specialized training - using the same approach - via our Human Resource Management major. Career paths include positions in training and development, personnel and employee relations, equal opportunity and labor relations, human resource consulting, and more. For students interested in starting their own business or working for smaller fast growing organisations, 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.

## The College of Business Administration

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

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

**Tracks:** General Management, Entrepreneurship, Human Resource Management

**Minor:** Entrepreneurship

### Department of Management Information Systems

*Chair:* P. Cheney; BA 308; 407-823-3106, Fax 407-823-2389

*Faculty:* Courtney, Goodman, Haynes, Hightower, Hornik, Jiang, Johnson, Leigh, McNamara, Porkh, Odisho, Saunders, Szymanski, Thienel, Tidwell, Van Slyke, West

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

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

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

The MIS major is ideal for students who excel at solving problems and who can take responsibility for implementing their solutions in working organizational systems. Students in the program are trained to be comfortable shifting between the big picture and the detailed view of a problem and its solution. They also have their communication skills refined so that they are better able to communicate effectively as they discover the nature of the organizational problem (or opportunity), as they present their solutions, and as they manage the system implementation.

Successful MIS graduates have a variety of career options open to them, which lead to competitive salaries and travel opportunities. While many graduates join internal MIS staffs or consulting firms, there is a wide array of choices available to them. Graduates can choose between large and small companies, emerging or stable industries, and from among a multitude of career paths.

#### Distinctive Benefits

- Challenging field of study that rewards inquisitive students who are willing to work toward a goal.
- Student internship opportunities throughout the Central Florida region.
- An active student organization (MISA).
- Excellent job opportunities and starting salary prospects.
- Ability for graduates to apply and integrate all of the functional areas of business early in their professional careers.

**Degrees:** Management Information Systems (BSBA)  
Master of Science, Management Information Systems (MS/MIS)

**Minors:** Management Information Systems

### Department of Marketing

*Chair:* R. Michaels; BA2 307; 407-823-2108;

<http://www.bus.ucf.edu/marketing/index.htm>

*Faculty:* Allen, Borrieci, Crowson, Das, Davis, Desiraju, Echambadi,

Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott, Mayfield-Garcia, Michaels, Rubin, Sooder, Stock, Whang, Yoon

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

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

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

Marketing is vitally important to all organizations and individuals, from global corporations to small businesses, from CEOs to the proprietors of small retail stores, from global manufacturing operations to a new dot com startup. Nearly one-third of the civilian work force in the United States is employed in jobs related to marketing. Marketing offers a variety of interesting and challenging career opportunities, such as professional selling, retailing, advertising, marketing research, sports marketing, distribution and logistics, purchasing, and e-business. In addition, students with marketing degrees may find excellent job prospects in international markets. Marketing career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government and social service agencies. Marketing also provides a strong career foundation for movement into top management positions.

#### Distinctive Benefits

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

**Degrees:** Marketing (BSBA)

**Tracks:** Generalist, Sales

**Minor:** Marketing

**Certificates:** Selling and Sales Management, Retailing Management, e-Marketing, Sports Marketing, Management, Healthcare Marketing, Services, Marketing, Entertainment 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 COLLEGE OF EDUCATION



## **College of Education**

*Dean:* Sandra L. Robinson; 407-823-5529  
*Executive Associate Dean:* Jennifer C. Platt;  
407-823-2046  
*Associate Dean:* B. Grant Hayes;  
407-823-5391  
*Associate Dean:* Rex Culp  
*Deans' Office:* ED 308  
<http://education.ucf.edu/>

The role of the College of Education at the undergraduate level is to provide a high-quality education for students in preparation for careers in early childhood, elementary, secondary, exceptional, physical, technical education, and sports and fitness professionals. The College of Education is dedicated to preparing professional educators/reflective practitioners who meet the needs of our schools and society.

# The College of Education

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

## Success to Significance

- America's 100 Best Colleges of Education 2005
- Invited to join the Carnegie Corporation of New York – Teachers for a New Era
- State and National Accreditation
- Proven and promising practices
- Partnerships within the eleven county school districts
- High quality teacher education programs
- Leadership in reform efforts
- Strength of faculty and students
- Broad influence in higher education community
- Access to cutting edge educational technologies
- Opportunities to become involved in professional education organizations
- State-of-the-art facilities
- UCF Academy for Teaching, Learning and Leadership
- Toni Jennings Exceptional Education Institute
- Florida's Literacy and Reading Excellence Center (FLaRE)
- Lockheed Martin Academy for Mathematics and Science
- Consortium for Social Responsibility and Character in Education
- Early and continuous field experiences
- Internships with highly qualified teachers
- Infusion of multicultural education, ESOL and technology throughout classes
- Majors in Early Childhood, Elementary, Exceptional and English Language Arts Education graduate with an ESOL Endorsement
- Graduates are eligible for professional teacher certification

## Admission to the College of Education

Admission to the College will be granted when students meet the following requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete common program prerequisite courses

### Transfer Notes:

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information. Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements. Students are responsible for all ESOL assignments for all UCF ESOL-infused courses that may be transferred from other institutions.

### New student will:

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

faculty advisor's name and telephone number appear on the SASS Degree Audit and in Polaris to assist students in making an advising appointment.

4. Purchase LiveText software at the beginning of the first semester of enrollment in the College of Education and utilize, based on program requirements.

### Continuing students will:

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

## Office of Student Affairs

*Executive Director:* Tina Smilie, ED 110, 407-823-3723

Located in the Education Complex in Suite 110, the Office of Student Affairs is dedicated to facilitating the success of students seeking advisement, assistance, and support in the College of Education. The Office of Student Affairs is organized into the Offices of Clinical Experiences, Minority Programs In Education, and Student Services.

## Mission Statement

The mission of the College of Education Office of Student Affairs is to provide seamless services and resources to current and prospective students including recruitment, pre-advising, orientation, program advising, financial assistance, internships, graduation certification, and graduate education. To promote student success, we collaborate with and support College of Education faculty, administrators, and community partners.

## Office of Clinical Experiences

*Director:* Carolyn Walker Hopp; ED 110, 407-823-2436  
<http://reach.ucf.edu/~edintern>

Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of every degree program and consist of early field experiences as well as Internship I and Internship II. Placement of students is the responsibility of the College of Education.

**Students must be aware:** if they have been arrested for certain crimes, they may not be able to be placed in internships and/or hired as a teacher. All school districts require fingerprinting prior to Internship I. All applications for internships are made through the Office of Clinical Experiences.

### Application deadlines for all Internships are as follow:

March 1 for Fall semester  
September 15 for Spring semester

### Admission to Internship I

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

- Have on file in the University admissions office passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted).
- Possess minimum overall GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a "C-" (1.75) or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I online by deadlines listed above
- Meet any special departmental requirements

- Be recommended by the faculty of the department of the student's major
- Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a university coordinator. Students are enrolled in a limited number of related professional courses during the experience. Additional courses may be taken only with the consent of the academic program coordinator and department chair.

### Admission to Internship II

Internship II is a 9-12 semester hour experience (depending on the program) normally completed during the student's last semester. Internship II is considered a full-time experience, and students are permitted to enroll in other classes only with the consent of their academic program coordinator and department chair. Admission to Internship II will be granted when students have met the following requirements:

- Successfully complete Internship I
- Have on file passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- Possess a minimum overall GPA of 2.5

recruit and retain diverse students as they prepare for a career in education. MPIE provides future educators with financial assistance, academic support, and professional development. Each student admitted into the program is paired with a faculty mentor in the College.

### Program Objectives

- Recruit and retain diverse students interested in careers in teaching
- Promote academic excellence and foster professional development
- Assist in job placement
- Encourage community involvement and commitment

### Scholarship Requirements

Students must meet the following criteria:

- Eligible groups: African-American/Black, Asian-American/Pacific Islander, Hispanic, or American Indian/Alaskan Native
- Be a Florida Resident
- Be admitted into the UCF-College of Education as a degree-seeking undergraduate student
- Minimum semester and overall grade point average of 2.5
- Submit Scholarship Application



- Possess minimum professional preparation GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Achieve a "C-" (1.75) or better in all prerequisite methods/specialization courses, and a minimum GPA of 2.5 is required in the professional preparation and specialization areas.
- Complete a formal application for Internship II by deadline
- Be recommended by the faculty of the department of the student's major
- Meet any special departmental requirements

Students must also have completed all methods courses and most of their specialization courses. Some programs (such as Elementary Education) require all specialization courses to be completed prior to Internship II. Students must also be approved for admission by the faculty in the department of the student's major. Internship II experience is completed locally.

## Office of Minority Programs in Education

Director: TBA; ED 110,  
407-823-0184  
<http://pegasus.cc.ucf.edu/~mpie/>

The Office of Minority Programs in Education (MPIE) is designed to

- Successful interview with the Scholarship Application Review Committee
- Submit two letters of recommendation and current resume
- Complete 40 hours of community service for each year the scholarship is received

### Application deadlines:

July 1 for Fall semester  
November 15 for Spring semester

## Office of Student Services

Director: Andrea Withington, ED110, 407-823-3723  
<http://pegasus.cc.ucf.edu/~stuservw/>

The College of Education Office of Student Services assists students with orientation, registration information, general academic advisement, college and University academic requirements and graduation certification. Education Pending majors are advised in the Office of Student Services. Students are assigned a faculty advisor upon meeting College of Education admission requirements. Students are encouraged to make an early appointment with an academic advisor. Information regarding majors offered by the College of Education can be obtained in the Office of Student Services or at <http://www.edcollege.ucf.edu/> (click on Student Services).

## UCF Courses and Descriptions

Admission to the University of Central Florida does not imply admission to the College of Education. Students will be allowed to enroll in the 3000/4000 level courses taught by the College of Education **after they have been admitted to the College.**

### Graduation Requirements

To qualify for graduation, a student must successfully complete all coursework to include a minimum overall GPA of 2.5, a minimum 2.5 GPA in all specialization courses, and a minimum 2.5 GPA in professional preparation courses. In addition, students must pass all applicable sections of the Florida Teacher Certification Exam (FTCE) and complete a portfolio according to program guidelines to meet graduation requirements.

### Alternative Certification for Non-Degree Students

All students who have earned a Baccalaureate degree from an accredited institution and who desire to be certified in Elementary Education must complete an undergraduate or masters degree program in Elementary Education. For other certification areas for which the College has programs, students may elect to complete 1) an undergraduate degree 2) a graduate degree or 3) an alternative program as a post-baccalaureate student. Students must meet regular admission requirements for the College of Education and Teacher Education.

## Department of Educational Studies

*Chair:* Karen L. Biraimah; ED 209B;  
407-823-2426

*Assistant to the Chair:* Ximena Mejia;  
ED 206-E; 407-823-6579

*Faculty:* Ackley, Allen, Alvarez, Becker, Boote, Brown, Condly, Gill, Sluti-Eriksson, Goodman, Hewitt, Holt, Hutchinson, Johnson, Kaplan, Koger, , Lockett, Lue, Meyer, Miller, Munroe, Offer, Short, Stewart

The Department of Educational Studies serves all students in the College of Education. The Department provides instruction in the core professional courses that address the competencies and skills needed by all undergraduate majors. These courses emphasize learning theory, teaching strategies, diversity, and the social, philosophical and historical foundations. The Department provides courses for all masters and doctoral programs in education, and coordinates the core courses for the Curriculum and Instructional Doctoral Program and the Graduate Certificate in Initial Teacher Preparation. The Department houses the Masters of Education in Curriculum and Instruction Program, with M.Ed., M.A. and Graduate Certificate options in Gifted Education, Urban Education, and Multicultural and Global Education. Educational Studies graduate courses provide opportunities for students to advance their knowledge and skills related to multicultural, social, and psychological factors, curriculum and instructional theories, and the historical and philosophical factors that influence education.

## Department of Child, Family, and Community Sciences

*Chair:* TBA; ED 209-H;  
407-823-2595

*Assistant to the Chair:* Roanne G. Brice; ED 206-D; 407-823-0664

*Faculty:* Albers, Balado, Blanes, Casado, Cross, Daire, Dieker, Edwards, Englehart, Ezell, Fuller, Hartle, Hayes, Hines, Hughes, Jennings, Jones, Klein-Ezell, Lambie, Little, Manning, Martin, Miller, Mumford, Oliva, Platt, Ray, Robinson, Szente, Taub, Thomas-Richmond, Wienke, Young

Undergraduate academic major programs leading to bachelor's degrees and certification are offered in Child, Family and Community Sciences. Students who major in Early Childhood Education are qualified to teach Pre-Kindergarten through grade 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.

Certification and Master's level programs are available in Early Childhood Education and Counselor Education, with an emphasis on school counseling or mental health counseling. A Specialist Program is available in School Psychology. A graduate level certificate program is available in Sports Leadership. The Ph.D. in Education is available with tracks in Counselor Education and Exceptional Education.

## Department of Teaching and Learning Principles

*Chair:* Robert Williams; ED 209-D;  
407-823-4836

*Assistant to the Chair:* Dr. Lawrence Mione, ED 206-C, 407-823-0523

*Faculty:* Blair, Brewer, Buchoff, Camp, Circle, Cohn, Crawford, Culp, Diaz, Dixon, Ergle, Everett, Fisher, Frazee, Gaudelli, Gerking, Gresham, Higginbotham, Hopkins, Hynes, Jeanpierre, Joels, Kazoroski, Kehoe, Kelley, Lanier, Lee, Mitchell, Neville, Ortiz, Ousley, Palmer, Palumbo, Ragsdale, Roberts, Romjue, Scharlach, Schulte, Seeley, Spalding, Stanley, Starzynski, Sweeney, Torbert, Verkler, Waring, Wegmann, Whiteman, Wienke C., Williams K., Wilson, Zygoris-Coe

### Elementary/Middle Education

The Elementary Education program is designed for prospective teachers interested in the education of children, five through twelve years of age. Students who major in elementary education are qualified to teach grades kindergarten through six upon graduation and receipt of a Florida teaching certificate.

### Secondary/Post Secondary Education and Training

Programs in this area are designed for prospective teachers/trainers interested in working with students in a specific academic or vocational area in middle/junior high school, high school, selected post-secondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, Sports and Fitness, and Technical Education and Industry Training. Graduate level programs are available in Art Education, Elementary Education, English Language Arts Education, Educational Media, K-8 Mathematics and Science Education, Mathematics Education, Music Education, Physical Education, Science Education, Social Science Education, Reading Education and Vocational Education. The Ph.D. in Education is available with tracks in Mathematics Education and Elementary Education.

### K-12 Education

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

## Department of Educational Research, Technology and Leadership

*Chair:* Conrad Katzenmeyer; ED 209D;  
407-823-4835

*Assistant to the Chair:* Christine Karper; ED 206B; 407-823-0623

*Faculty:* Blasi, Bozeman, Cornell, Evans, Gunter, Hahs-Vaughn, Hirumi, House, Magann, Murray, B., Murray, K., Orwig, Paugh, Pawlas, Robinson, J., Scheick, Sivo, Taylor, Tubbs, Wallace, Witta

The Department of Educational Research, Technology and Leadership provides graduate programs in the following areas: Educational Leadership, Research, Evaluation and Assessment, Technology, Higher Education and Policy Studies.

# THE COLLEGE OF ENGINEERING AND COMPUTER SCIENCE



COLLEGES

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

*Dean:* Neal C. Gallagher; ENG2 202;  
407-823-2156

*Interim Executive Associate Dean for Research:* Debra Reinhart;  
ENG2 202; 407-823-2156

*Associate Dean for Academic Affairs:*  
J. F. Nayfeh; ENGR 107; 407-823-2455

*Assistant Dean for Distributed Learning:*  
Samuel Richie; ENGR 289; 407-823-5765

*Director, Academic Support Services:* Melissa Dagley-Falls;

ENGR 107; 407 823-2455

*Director, of College Honors Programs:* Mohamed Abdel-Aty,  
ENGR2 301H 308; 407-823-21795657

Website: <http://www.cecs.ucf.edu>

*Assistant Dean for Distributed Learning:*  
Samuel Richie; ENGR 289; 407-823-5765

*Director, Minority Engineering & Computer  
Science Programs:* Jacqueline Smith;  
ENGR 281; 407-823-3466

## Undergraduate Majors and Degrees

Aerospace Engineering  
 Civil Engineering  
 Civil Engineering - Construction Engineering Concentration  
 Computer Engineering  
 Computer Engineering - Software Engineering Concentration  
 Computer Science  
 Electrical Engineering  
 Electrical Engineering - Wireless Communication Concentration  
 Electrical Engineering -  
 Microelectronics Concentration  
 Electrical Engineering Technology -Computer Systems Concentration  
 Electrical Engineering Technology - Electrical Systems Concentration  
 Electrical Engineering Technology -Photonics Concentration  
 Engineering Technology - Design Concentration  
 Engineering Technology - Operations Concentration  
 Engineering Technology - Space Systems Concentration  
 Environmental Engineering  
 Industrial Engineering  
 Information Systems Technology  
 Information Technology  
 Mechanical Engineering - Energy Systems Concentration  
 Mechanical Engineering - Mechanical Systems Concentration  
 Mechanical Engineering - Materials Concentration

BSAE  
 BSCE  
 BSCE  
 BSCpE  
 BSCpE  
 BS  
 BSEE  
 BSEE  
 BSEE  
 BSEE  
 BSEET  
 BSEET  
 BSEET  
 BSET  
 BSET  
 BSET  
 BSEnvE  
 BSIE  
 BS  
 BS  
 BSME  
 BSME  
 BSME

### Accelerated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering, Engineering Technology, and the Information Technology Program are offering an Accelerated BS/MS degree program which will allow students of high academic standing to complete an MS degree at an accelerated pace. The generic rule for students in this program is that they will be allowed to use up to twelve hours of selected courses with a grade of "B" or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the program descriptions in the graduate and undergraduate catalogs. They may also contact the department Assistant Chair and/or Graduate Coordinator if they have any further questions.

### College Vision

The College of Engineering and Computer Science (CECS) at the University of Central Florida will be recognized nationally and globally for undergraduate and graduate education, research and partnership. CECS will strive to become a top 50-ranked college within the next 5 years, and a top 25-ranked college within the next 10 years. CECS will achieve high standards in all aspects of education, research and technology application. These accomplishments will take place in a College dedicated to diversity, quality, resource expansion and partnerships throughout all of its operations and programs.

### College Mission Statement

The CECS primary mission is to further the knowledge and practice of the engineering and computer science professions nationally and internationally by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, to prepare a diverse student body to be effective, contributing members of a technological society and life-long learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of humankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

### College Core Values

- Honesty: Tell the truth and be aboveboard and candid.
- Integrity: Foster trust and be accountable for one's actions.
- Professionalism: Adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: Pursue life outside of the professional environment, giving family a priority.
- Altruism: Work as a team; help each other; and sacrifice for the common good. Understand that each individual's work is part of

a larger purpose and plan.

### College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate programs to provide graduate-like education for undergraduates.
- High quality graduate education to meet the needs of Florida and the U.S. and to achieve national and international prominence.
- A model for university outreach, globalization and partnerships
- A college with national and international visibility.
- An inclusive, open and supportive environment.

Students who seek a challenging technical career in research and development, design, technical sales, manufacturing, management, teaching, or other professions requiring a methodical, creative solution to problems should seriously consider pursuing an education in engineering, engineering technology, or computer science. The internationally-recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today's engineer, engineering technologist, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is also recognized as a valuable asset to those entering other professional pursuits such as the medical or law professions, architecture, education, the military professions, or even politics.

### College Organization

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

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

The Engineering Technology Division and Department offers baccalaureate concentrations in Design, Operations and in Space Sciences, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems, Computer Systems, and in Photonics, all leading to the Bachelor of Science in Electrical Engineering Technology (BSEET) degree. Both the BSET and BSEET, with the exception of the new Photonics concentration, degrees are accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for



Engineering and Technology (ABET), 111 Market Place, #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, FAX: (410) 625-2238. The Engineering Technology Department also offers a Bachelor of Science degree in Information Systems Technology (BS). This degree is designed for students who have completed 33 credit hours of lower level technical courses at a community college in the areas of networking, programming, information technology, computer science, computer engineering and technology or closely related disciplines.

The College houses the ROTC Division for those students desiring to pursue military training while earning their degree. The AFROTC program offers a minor in Aerospace Studies, and the AROTC program offers a minor in Military Science.

## The Honors Program in the College of Engineering and Computer Science

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

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

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

## The Honors in the Major Program

The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate under the guidance of a faculty member in his/her major. The Honors in the Major represents a total of six semester hours of work. These credit hours are acceptable as technical electives by all programs except for Electrical and Computer Engineering. Electrical and Computer Engineering students in the HIM program use the HIM credits in lieu of Senior Design I and II. These six credit hours consist of an Honors in the Major Seminar titled Research Methods in Engineering (EGN 4931H) (three semester hours), plus three semester hours of Undergraduate Honors Thesis (EGN 4970H).

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

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

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

soring 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, Niels Lobo (Computer Science), Harris Corp. Engineering Center, Room 252, or Mohamed Abdel-Aty, (Engineering) Engineering Building 2, room 301H. For more information about The Burnett Honors College programs, please visit their homepage at <http://www.honors.ucf.edu>.

## The LEAD Scholars Program in the College of Engineering and Computer Science

Engineering, engineering technology, and computer science students may also participate in the LEAD (Leadership Enrichment and Academic Development) Scholars Program (see the section on the LEAD Scholar Program found elsewhere in this catalog).

## Additional Information on UCF Baccalaureate Engineering, Engineering Technology, and Computer Science Programs

Information on each UCF engineering, engineering technology, computer science, and information technology program follows, and more current information can be found on the College home page at <http://www.cecs.ucf.edu/>, and on the home pages of each department. For the home page associated with a particular program, see the listing for that department on the following pages of this catalog.

## Department of Civil and Environmental Engineering

*Interim Chair:* A. Gonzalez; ENG2 211; 407-823-2841, Fax: 407-823-3315

*Faculty:* Abdel-Aty, Al-Deek, Catbas, Chang, Chopra, Cooper, Dietz, Hagen, Kuo, Nnadi, Oloufa, Radwan, Randall, Reinhart, Taylor, Wanielist, Wayson, Yeh, Zhao

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSCE) and Environmental Engineering (BSEnVE).

### The Civil Engineering Program

The Civil Engineering major is concerned primarily with fundamental civil engineering design and analysis in such areas as structures, geotechnical engineering, sanitary engineering, water resources, transportation engineering, and construction engineering. Civil Engineering students are required to take a minimum of two Project Design Courses, which synthesize various pre-requisite course offerings into a design project. Students in the Civil Engineering with Construction option are required to take two Project Design Courses (Construction Design Project and Geotechnical Engineering Design). These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

### Mission

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

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

# The College of Engineering and Computer Science

## Program Objectives

Within the first several years following graduation, graduates should:

- Be successfully employed or employable in civil engineering practice in areas such as structural, geotechnical, transportation, construction, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

## Educational Objectives

1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geo-technical, water resources, transportation, construction, surveying, and environmental.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

## The Environmental Engineering Program

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

Environmental Engineering students are required to take a minimum of two Project Design Courses (out of four offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually "open-ended" and duplicate real world 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.

## Program Objectives

Within the first several years following graduation, graduates should:

- Be successfully employed or employable in environmental engineering practice in areas such as solid waste, air pollution, water and wastewater treatment, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

## Educational Objectives

1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Environmental Engineering such as solid waste, air pollution, water and wastewater treatment, and water resources.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in

- applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The mission statement and objectives for the Civil Engineering and Environmental Engineering programs are electronically posted and continuously updated. More information on the Civil and Environmental Engineering programs can be found on the CEE Department home page at <http://www.cee.ucf.edu>.

## Department Policy for Double Major in Civil and Environmental Engineering

The faculty of the Civil and Environmental Engineering Department believe that a double major from our department should reflect a significant achievement of students, and therefore a significant increase in knowledge and formal coursework above the requirements for a single degree. Any undergraduate in Civil or Environmental Engineering desiring to obtain a double major disciplines shall meet the following requirements:

- the student shall meet all individual requirements for each degree
- the coursework must include two different capstone design courses, one from each program
- the student shall notify the Chair of his or her intent to pursue a double major by the start of the final academic year (3 semesters) of coursework, and shall have a "program of study" prepared and approved by the Chair
- completion of requirements for both majors must be in the same semester.
- the same catalog year must be used for both majors

## Additional notes:

- All students, by meeting the requirements for each degree, will be able to represent themselves as either a Civil Engineer or an Environmental Engineer or both.
- The double major program for a student must be approved by the Chair in the final year. This eliminates last-minute confusion by the student and allows the Chair time to review the technical elective, and the specific design courses being taken by each student.

The 24 hours represents two additional semesters of full time enrollment, and represents the minimum requirements for a second 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 double major will be so indicated on one diploma. If a student desires two separate diplomas, a B.S.C.E. and a B.S.Env.E, this is permitted for students who have a minimum of 150 credit hours.

## School of Electrical Engineering and Computer Science

*Director:* Dr. Issa Batarseh; Harris Corp Engineering Center; 437D, 407-823-2787

*Faculty:* Allen, Bassiouni, Batarseh, Bauer, Berrios, Boloni, Brigham, Chatterjee, Demara, Deo, Dutton, Einioui, Favorov, Foroosh, Frederick, Georgiopoulos, Gerber, Gomez, A. Gonzalez, F. Gonzalez, Guha, Haralambous, Heinrich, Hughes, Jones, Kasparis, Klee, Kocak, Lang, Lee, Leeson, Liou, Lisetti, Llewellyn, Lobo, Malocha, Marin, Marinescu, Mikhael, R. Miller, Moshell, Mukherjee, Orooji, Parsons, Pattanaik, Petrasko, R. Phillips, Qu, Reinhard, Richie, Rogers, Rolland, Schiavone, Shah, Shen, Sundaram, Turgut, Vemulapati, Wahid, Wei, Workman, A. Wu, T. Wu, Yuan

## The Computer Science Program

The Computer Science program offers courses and programs leading to Bachelor of Science, Master of Science (see Graduate Catalog), and Doctor of Philosophy (see Graduate Catalog) degrees in Computer Science. In addition, the program offers minors in Computer Science, Applied Computer Science, and Computer Information Technology.

The program strives to meet the requirements for professional careers and research in software development and computing systems technology by producing graduates with a broad base of formal course work. Students may use required elective credit to concentrate their degree in one of many research areas, including computational biotechnology, computational complexity, computational geometry, computer architecture, computer graphics, computer networks, computer simulation, computer vision, databases systems, design and analysis of algorithms, distributed computing, digital media, evolutionary computing, graph theory, machine learning, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, software engineering and VLSI design tools and hardware algorithms.

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

## Mission

The mission of the Computer Science program is to educate majors in the principles and practices of computer science, preparing them for graduate school, for careers in software development and computing technology, and for a lifetime of learning.

## Objectives

1. CS majors should be practiced in the design and analysis of algorithms using mathematical and statistical methods and techniques.
2. CS majors should be proficient in the use of modern and widely-used programming languages.
3. CS majors should be practiced in abstract reasoning and modeling of complex real-world systems.
4. CS majors should be practiced in oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing technology and applications.
5. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
6. CS majors should be highly competitive in securing entry-level positions in software and computer system development industries.
7. The top fifteen percent (15%) of all graduating CS majors shall be qualified and prepared for pursuing graduate studies in the top tier graduate schools in Computer Science.

## The Information Technology Program

The Information Technology program offers courses leading to the Bachelor of Science degree in Information Technology. Information Technology encompasses computer hardware, software, peripheral devices and their use in communication networks and information systems. IT-related disciplines include database engineering, network engineering, performance planning, system security, digital media design, and web server design. The program provides students a strong conceptual core, which will prepare them to be life-long learners, along with significant hands-on experience. The inclusion of advanced courses in technical writing, a course in ethics, and five upper division courses in an area outside information technology will prepare these students to deal with the subject areas and communicate in the parlance of the industries in which they choose to work. Basically, students will have an interdisciplinary core in which the principles and practices of the three disciplines of the School are presented in a cohesive, connected manner. They will then create their own multidisciplinary component by taking upper division courses that are typically outside the College of Engineering and Computer Science.

## Mission

The mission of the Bachelor of Science in Information Technology Degree Program is to educate students in the science and practices of information technology, preparing them for a lifetime of learning and for careers in information technology as well as in a wide variety of disciplines that integrate information technology into their respective fields of activity.

## Objectives

1. Graduates will learn the principles and practices of information technology, along with the mathematical and engineering founda-

tions of this discipline.

2. Graduates will obtain the skills to solve complex problems via the development of models, and the design, implementation, and analysis of computer realizations of these models.
3. Graduates will receive an education that enables them to design, implement, and administer complex distributed information systems, including the archival databases and the communication infrastructures associated with such systems.
4. Graduates have the opportunity to obtain a strong background in at least one discipline, outside information technology, in which information technology plays a critical role.
5. Graduates will be prepared for successful careers in information technology. This preparation will include the abilities to work in teams, to communicate effectively, and to experience a lifetime of learning.

## Electrical and Computer Engineering Programs

The Electrical and Computer Engineering programs offer baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BSCpE). Graduate degrees leading to the Master of Science in Engineering (M.S.E.) and Doctor of Philosophy (Ph.D.) are also offered.

The curriculum provides an integrated experience including humanities and social sciences, mathematics and basic sciences, engineering core, computing, and design experience. The laboratory experiences appropriately combine theory and practice in the Electrical and Computer Engineering programs through a logical progression of courses. Design experiences start with the first circuits course, EEL 3004, and progress to the senior design capstone courses. This senior design experience is a two-semester sequence totaling six credit hours. Aspects of engineering economics, administration, oral presentation, professional issues such as ethics, safety and environmental impact are also covered in the design courses. The design projects required in the design course sequence address real-life problems, and the students work in a team setting. Also, several projects are developed jointly with our industrial partners.

## The Computer Engineering Program

The Computer Engineering program contains a minimum of 24 credit hours of design experience, which includes courses listed as Computer Systems Design I and II (EEL 4767C and EEL 4768C), Engineering Applications of Computer Methods (EEL 4832), Engineering Data Structures (EEL 4851C), and Introduction to Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experiences in specialty areas such as computer architecture, intelligent systems, networking, software engineering, and simulation systems.

## Mission

The mission of the Bachelor of Science in Computer Engineering Degree Program is to educate students to become highly skilled in the principles and practices of computer engineering and develop computer engineers that meet market needs.

## Objectives

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

## The Electrical Engineering Program

The Electrical Engineering program contains a minimum of 18 credit hours of design experience. This is achieved through such courses as Linear Control Systems (EEL 3657), Electronics I and II (EEL 3307C and EEL 4309C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Computer Systems Design I (EEL 4767C), Networks and Systems (EEL

## The College of Engineering and Computer Science

3123C) and Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experience leading to work in communications, controls, image and signal processing, microelectronics and solid state devices, microwaves and electromagnetics, optical engineering, and power/power electronics.

### Mission

The mission of the Bachelor of Science in Electrical Engineering Degree Program is to educate students to become highly skilled in the principles and practices of electrical engineering and develop electrical engineers that meet market needs.

### Objectives

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

The mission statement and objectives for the Computer Engineering and Electrical Engineering programs are electronically posted and continuously updated. More information on the Computer and Electrical Engineering programs can be found on the home page at <http://www.ece.ucf.edu/>.

### School of Electrical Engineering and Computer Science Policies and Procedures

The School's web site (<http://www.eecs.ucf.edu/>) is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ's) concerning academic advisement, student professional societies, undergraduate research opportunities, and means to effectively communicate concerns (comments, suggestions, complaints). We ask that you visit this site and follow its guidelines before you send e-mail and letters, or make phone calls to faculty members and administrators.

### Department of Industrial Engineering and Management Systems

Chair: Lesia Crumpton-Young; ENG2 312; 407-823-2204, Fax 407-823-3413

*Faculty:* Armacost, Butler, Chandra, Crumpton-Young, Elshennawy, Furterer, Geiger, Hoekstra, Hosni, Kotnour, Kulonda, Lee, Malone, McCauley-Bell, Mollaghasemi, Mullens, Pet-Armacost, Proctor, Rabelo, Ragusa, Reilly, Schrader, Sepulveda, Stanney, Tang, Wang, Whitehouse, Williams

Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner and with the highest possible quality. In doing so, the industrial engineer deals with decisions regarding the utilization of people, materials, machines, and automation (including robotics). Industrial engineers are also skilled in Engineering Economic Analysis and Information Management since they are generally considered to be the natural interface between the technical specialist and management.

Industrial Engineers are generally sought in industry, service, and government organizations. In the industrial sector, the industrial engineer is concerned with improving productivity and quality of the manufacturing, distribution, and management system of organizations. In the service sector, the industrial engineer is concerned with determining the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service for their tax dollars.

The Industrial Engineering approach is characterized by a systematic evaluation of alternatives using quantitative analysis, and computer simulations. As such, quantification and measurement play a key

role in the day to day activities of the industrial engineer.

Engineering design experiences are incorporated into many of the required industrial engineering core courses. For instance, students learn how to apply the principles of engineering design to production systems and cost estimation in EIN 3354, to work methods and process flows in EIN 3314, and to facilities design and plant layout in EIN 4364. The design experience concludes with a real-world system design in the two-semester capstone design sequence, EIN 4116 and EIN 4891.

### Mission

To produce industrial engineering professionals and leaders who, working alongside their coworkers, can design and improve operations in industry, business, and government, making them more productive, more responsive, and producing goods and services of higher value to the customer for the global economy of the 21st century.

### Objectives

1. BSIE graduates will demonstrate knowledge of math, science, and engineering fundamentals. Specifically, the student will have the ability to:
    - Demonstrate general design principles.
    - Use fundamental engineering techniques, skills, and tools for engineering practice.
    - Analyze and interpret data to produce meaningful conclusions and recommendations.
  2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:
    - Design systems, components, and processes to meet desired needs.
    - Identify, formulate, and solve industrial engineering problems.
    - Use industrial engineering techniques, skills, and tools for engineering practice.
    - Be a productive member of multi-disciplinary teams.
    - Communicate effectively in both written and spoken presentations.
    - Incorporate contemporary issues into the practice of industrial engineering, including global communication.
    - Have the knowledge to become a Professional Engineer (PE) in the IE discipline.
  3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:
    - Make decisions in light of professional and ethical responsibilities.
    - Understand the impact of engineering solutions in a global and societal context.
    - Understand contemporary issues in the practice of industrial engineering.
    - Engage in life-long learning.
  4. BSIE graduates seeking professional employment or admission to graduate education programs will be successful in doing so within six months of graduation.
  5. IEMS students will receive relevant curriculum content in a learning environment that facilitates learning and retention.
- The mission statement and objectives for the Industrial Engineering programs are electronically posted and continuously updated. More information on the Industrial Engineering program can be found on the Industrial Engineering Department home page at <http://www.iems.ucf.edu>.

### Department of Mechanical, Materials, and Aerospace Engineering

Chair: Ranganathan Kumar; ENGR 307; 407-823-2416, Fax 407-823-0208

*Faculty:* An, Bishop, Q. Chen, R. Chen, Chew, Cho, Chow, Coffey, Conway, Desai, Fang, Hagedoorn, Ham, Ilgbusi, Johnson, Kalita, Kapat, Kar, Kassab, Klemenz, Leonessa, Lin, Minardi, Moslehy, Nayfeh, Nicholson, Peterson, Seal, Sohn, Suryanarayana, Vaidyanathan, Wang, 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 aerody-

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

The Mechanical Engineering program is designed to provide a broadly-based foundation in thermo-fluids, mechanical systems and materials, including topics such as solid mechanics, machine design, vibrations, CAD/CAM/FEM, feedback control and mechatronics, fluid mechanics, heat transfer, and structure and properties of materials.

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

## Mission: Aerospace Engineering

In support of the University and College missions, the Aerospace Engineering program at UCF is committed to provide the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

## Aerospace Engineering Program Educational Objectives and Outcomes

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

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

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

**Life-long Learning:** To produce graduates who believe that their undergraduate aerospace engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

## Mission: Mechanical Engineering

In support of the University and College missions, the Mechanical Engineering program at UCF is committed to 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.

## Engineering Program Educational Outcomes and Objectives

**Career Preparation:** The program prepares graduates for employment as engineers in mechanical or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize mechanical systems, energy systems, or materials, and

will have a command of corresponding engineering principles. Among the career opportunities are power generation, mobility engineering, manufacturing, nuclear applications, from zipper to space shuttle.

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

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

**Life-long Learning:** To produce graduates who believe that their undergraduate mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

## Department of Engineering Technology

*Chair:* R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746  
*Program Coordinator BSET Programs:* L. Morse; ENGR 207: 407-823-4742

*Program Coordinator: BSEET Programs:* A. Rahrooh; ENGR 207; 407-823-4749

*Program Coordinator Information Systems Technology:* B. Motlagh; ENGR 207; 407-823-4748

*Faculty:* Burroughs, Coowar, Craiger, Divo, Ducharme, Mehrabian, Misconi, Morse, Motlagh, Osborne, Rahrooh, Shepard

### Mission

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

### Objectives

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

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

## Bachelor of Science in Electrical Engineering Technology (BSEET)

This program in electrical engineering technology, leading to the BSEET degree, provides a structured curriculum with instruction in fundamentals and engineering principles applicable toward working with both present and future technologies in a variety of work environments. Graduates may find employment opportunities in such diverse fields as aerospace, instrumentation, computers, communications, consumer products, banking and education. They may become involved in applied design, product development, manufacturing, quality assurance, production and operations as well as activities such as field engineering, sales, system analysis, technical writing and software design, preparation and programming.

The EET program provides three paths of concentration, thereby 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

# The College of Engineering and Computer Science

a background in optics, lasers, electrical systems, and the use and theory of light. It is designed to provide the necessary education for a career in the photonics industry.

## Bachelor of Science in Engineering Technology (BSET)

The BSET curriculum consists of a carefully integrated program that includes professional studies, general education, and applied mathematics and sciences. Through the selection of the upper level technical concentration students can build and tailor their program, based on previous knowledge to assist them to launch a career that best meets their needs and aspirations. The Design concentration provides advanced course work in preparation for employment at the baccalaureate level in the fields of manufacturing, testing and fabrication of mechanical parts, and the building and construction industries. Graduates may become involved in applied design, product development, manufacturing or production, to name but a few. The Operations concentration provides an orientation for professional careers in technical management and operations in the manufacturing, sales, services, and construction industries. Graduates may become involved in many diverse areas including product development, manufacturing, quality assurance and logistics, sales, field engineering, technical writing and safety. The Space Science Technology concentration prepares students for a career in launch and space operations, payload management, and other requirements to work in the space industry. Projects in solving real-world problems, are required of all students in the BSET program. In addition to the engineering technology core, all concentrations in the BSET program have a common lower division core as well as a common upper division core.

## Bachelor of Science in Information Systems Technology (BS)

The Engineering Technology Department also offers the Bachelor of Science degree in Information Systems Technology (BS), designed to accept Associate of Science (AS) degree graduates from community college programs in Computer Programming Technology, Digital Communications, and Networking. The IST curriculum provides the AS graduate with additional course work in networking and computer systems. It also provides skills and knowledge related to project management in Information Technology. A characteristic of this curriculum is that it contains less mathematics and natural science than do the BSET and BSEET curricula.

## Reserve Officer Training Corps

### Air Force ROTC (Aerospace Studies)

*Chair:* Col. William G. Palmby; Trailer 501, Room 103;  
407-823-1247,  
Fax 407-823-2265

*Faculty/Staff:* Captain Williams, Captain Ellingson, Captain Little, TSgt Fields, SSgt Crawford, and Mrs. Fioramanti, Office Manager

The Department of Aerospace Studies provides pre-commissioning education for qualified students who desire to serve as commissioned officers in the active duty Air Force. The department offers four-year, three-year, and two-year Air Force ROTC programs. The four/three-year program provides on-campus study during the freshman through senior years. The two year program allows community college transfer students and other students with two academic years remaining in either undergraduate or graduate status to earn an Air Force commission while completing their studies. All programs offer scholarship opportunities to selected students. Students are invited to write or visit the Department of Aerospace Studies to obtain additional information. The Air Force retains sole discretion whether or not any applicant is qualified for pre-commissioning education through the Air Force ROTC. More information on the Aerospace Studies program can also be found on the UCF AFROTC home page at <http://airforce.ucf.edu> and the Air Force ROTC home page at <http://www.afrotc.com/>.

### Curriculum

Students enrolled in the Air Force ROTC program may major in any academic discipline and earn a minor in Aerospace Studies. A major is not offered by this department. AFROTC courses are listed under the prefix AFR. The curriculum is divided into two phases:

#### 1. General Military Course (GMC)

The General Military Course is designed to give students their first exposure to the Reserve Officer Training Corps program during their

freshman and sophomore years. The courses deal with the mission, organization, and structure of the US Air Force, and the development of air power into a prime element of American national security.

#### 2. Professional Officer Course (POC)

The Professional Officer Course is designed to develop and hone managerial and officer skills during a student's junior and senior years. All students who seek a commission through the Air Force ROTC must complete the POC curriculum. The curriculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

### Leadership Laboratory

Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Requirements for entry into the Professional Officer Course

- Be at least 17 years of age at the time of acceptance
- Be able to complete the Professional Officer Course and complete all degree requirements prior to reaching age 29 if entering Flight Training, or before age 30 (can be waived to age 35) if entering a non-flying Air Force specialty
- Pass the Air Force Officer Qualifying Test
- Pass an Air Force medical examination
- Pass the Air Force Physical Fitness Test each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or six weeks)
- Enlistment in the Air Force Reserve certifying agreement to complete the POC and accept an Air Force Commission. This enlistment is terminated upon receipt of a commission

### Monetary Allowance

All contracted students enrolled in the Professional Officer Course receive a tax-free monetary allowance of \$350 or \$400 per month based on their academic classification.

### Air Force ROTC Scholarship Program

Scholarships are phased at four, three, and two year opportunities. This system provides opportunities to those students enrolled in certain academic majors. Depending on state residency and credit hours, these scholarships may provide for full tuition and fees, and an allowance for textbooks. For additional information on Air Force ROTC call 407-823-1247 or visit our web site at <http://airforce.ucf.edu> or e-mail us at [AFROTC@mail.ucf.edu](mailto:AFROTC@mail.ucf.edu). This information is subject to change.

### Summer Training

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

### Officer Commissioning

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

### Army ROTC (Military Science)

*Chair:* LTC Allison R. Reinwald; Trailer 501, Room 110

*Faculty/Staff:* LTC Christensen, MAJ Fallon, CPT Brown, CPT

Hernandez, CPT Plumtree, MSG Celestine, MSG Neil, SFC South, Ms. Betty Martin, Office Manager; 407-823-2430, Fax 407-823-5324

The University of Central Florida, in cooperation with the US Army, provides an opportunity to earn a commission as a Second Lieutenant and compete for an active duty assignment or accept a guaranteed Army Reserve or National Guard position. The program offers both a four-year and two-year option for students working on their Associate of Arts, Baccalaureate or Graduate degrees. The two-year option allows students with at least two academic years remaining in either undergraduate or graduate studies to meet all requirements for commissioning. Students may be eligible for the Army's Simultaneous Membership Program (SMP) which combines Reserve Forces Duty with Army ROTC officer training courses on campus. Students earn about \$9500.00 in their last two years. Note: The Army retains sole discretion - in accordance with public law and military regulation - regarding whether or not any applicant is qualified for pre-commissioning education through Army ROTC. More information on the AROTC program can be found on the AROTC Department home page: <http://army.ucf.edu>

## Curriculum

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

### 1. Basic Military Science

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

### 2. Advanced Military Science

- A. The Advanced Military Science courses (MSL 3101, 3202, 4301, 4302), open to both men and women, are taken during the junior and senior years. These courses specialize in small unit tactics, how to prepare and conduct military training, military justice system, staff procedures, decision making and leadership. Students who desire a commission as a Second Lieutenant are contracted and paid a tax-free subsistence of \$350.00 per month up to 10 months during their Junior year and \$400.00 per month during the Senior school year. Each student is required to take courses that meet the Army's Professional Military Education Requirements. Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced programcourse. They must also successfully complete a 32-day Leadership Development and Assessment Course at Fort Lewis, WA, normally between their junior and senior years.
- B. Requisites for Admission to the Advanced Course:
- Successful completion of Basic Course, Basic Camp (LTC), JROTC, prior military service or permission of the Department Chair
  - Must be at least 17 years of age at the time of entry, but not more 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 \$450.00 or \$500.00 per month during the school year.

### 4. Scholarships

Four, three and two-year scholarships are available for all students who qualify on a competitive basis. These scholarships provide full tuition, books and fees for Fall and Spring semesters. In addition, all contracted scholarship students also receive the \$300.00, \$350.00, or \$450.00, or \$500.00 monetary allowance per month during the school year. Contact the Enrollment Officer for additional information at 407-823-5383.

### 5. Placement Credit

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

### 6. Daytona Beach Campus Students

These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

### Summer Training Courses

#### 1. Basic Course Summer Training (Leader Training Course)

A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning within two years. Students attending the summer course receive approximately \$700.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

#### 2. Specialized Summer Training Courses

Qualified students can be selected to attend specialized military training occurring the summer months. These areas of training include: a) Airborne Training; b) Air Assault Training; c) Northern Warfare Training; d) Cadet Troop Leadership Training; e) Master Fitness Training; and f) Mountain Training.

3. Leadership Development and Assessment Course (LDAC) All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student's leadership performance and potential. Students normally attend LDAC after their junior year and receive approximately \$800 pay for the training.



## College of Health and Public Affairs

*Interim Dean:* Joyce E. Dorner; HPA I 365; 407-823-0171

*Associate Dean:* Stephen Holmes; *Graduate Studies and Technology:* HPA I 365; 407-823-0171

*Associate Dean, Undergraduate Studies:* Pamela Kirby; HPA I 365; 407-823-0171

*Assistant Dean, Student/Personnel Affairs:* Melvin Rogers; HPA I 365; 407-823-0171

*Website:* <http://www.cohpa.ucf.edu>

The College of Health and Public Affairs houses six departments and schools: the School of Nursing, the School of Social Work, and the departments of Communication Sciences and Disorders, Criminal Justice and Legal Studies, Health Professions, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health, social and justice services. In addition to a PhD program in Public Affairs and in Nursing, the College houses both undergraduate and graduate interdisciplinary programs that contribute to a solid educational foundation in public affairs.

## General Requirements for the Bachelor's Degree

Some Schools, Departments or Programs in the College are upper division, limited access programs. Acceptance by or registration at the University does not constitute admission to the following: Schools of Nursing and Social Work, and the Programs in Athletic Training, Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences.

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

The following Departments and Programs do not have restrictions on admissions: Communication Sciences and Disorders, Criminal

Justice/Legal Studies, Public Administration, Health Sciences - Pre-Clinical Allied Health Track, and Health Services Administration.

## Academic Advisement

### Office of Undergraduate Student Services

*Director:* Judith A. Sindlinger; HPA2 115; 407-823-0010;  
E-mail: [hpainfo@mail.ucf.edu](mailto:hpainfo@mail.ucf.edu)

The College of Health and Public Affairs Office of Undergraduate Student Services assists undergraduate students in understanding matters relating to college and university requirements and procedures as well as coordinating orientation, registration and graduation certification. Students interested in pursuing limited access programs are encouraged to meet with advisors in the college to stay on track by taking the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those who are having academic difficulty. Questions concerning university and college academic policies should be directed through this office. Faculty advisors are assigned to students upon admission to their degree program in their academic department.

## Programs and Degrees

Major	Degree
Cardiopulmonary Sciences	BS
Communication Sciences and Disorders	BA, BS, MA
Criminal Justice	BA, BS, MS
Health Information Management	BS
Health Sciences-Athletic Training	BS
Health Sciences - Pre-Clinical Allied Health Track	BS
Health Services Administration	BS,MS
Legal Studies	BA, BS
Nursing	BSN, MSN, PhD
Public Administration	BA, BS, MPA, MNM
Public Affairs	PhD
Physical Therapy	MS
Radiologic Sciences	BS
Social Work	BSW, MSW



## Department of Communication Sciences and Disorders

<http://www.cohpa.ucf.edu/comdis>

*Chair:* R. J. Lieberman; HPA2 101;

407-823-4798

*Undergraduate Coordinator:*

Jamie Schwartz

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

*Faculty:* Barrett, Brice, Carson, DiNapoli, Dreilinger, Harvey, Hostetter, Kent-Walsh, Lieberman, Miller, Nye, Parsons, Ratusnik, Riess, Rivers, Rosa-Lugo, Ruddy, Ryalls, Schwartz, Secord, Utt, Vanryckeghem, Whiteside

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

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

In addition to course work in Communicative Disorders, the Department offers an array of courses in American Sign Language and related topics.

**Degrees:** Communication Sciences and Disorders (BA, BS, MA)

**Tracks:** None

**Minors:** Communication Sciences and Disorders, Deaf Studies, American Sign Language,

**Certificates:** American Sign Language, Language Development and Disorders

## Department of Criminal Justice and Legal Studies

*Chair:* Dr. Bernard McCarthy; HPA 311; 407-823-2603

*Faculty:* Applegate, Bast, Bohm, Cherry, Cook, Craig, Eastep, Fabianic, Flagg, Flint, Flower, Ford, Griset, Holmes, Kirby, Lanier, Lucken, Mahan, B.J. McCarthy, B.R. McCarthy, Milon, Myers, Novogroski, Paoline, Ponte, Randall, Reynolds, Ross, Ruiz, Sanborn, Scott, Slaughter, Surette, Watkins, Winton, Wolf, Wood.

The Department of Criminal Justice and Legal Studies includes two undergraduate degree programs: Legal Studies and Criminal Justice. The department supports Lambda Alpha Epsilon, the professional Criminal Justice fraternity, and Alpha Phi Sigma, the Criminal Justice Honor society and Phi Alpha Delta the Legal Studies professional society.

### Criminal Justice Program

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

### Legal Studies Program

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

Alpha Delta, the professional law school fraternity. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Legal Studies.

**Degrees:** Criminal Justice (BA, BS, MS), Legal Studies (BA, BS)

**Tracks:** None

**Minors:** Criminal Justice, Legal Studies

**Certificates:** Crime Analysis and Crime Mapping, Criminal Profiling, Security Management, and Crime Scene Investigation.

## Department of Health Professions

*Chair:* Diane M. Jacobs; HPA2 210; 407-823-2359

*Faculty:* Acierno, Angelopoulos, Bertetta, Douglass, Edwards, Falen, Fottler, Gosnell, Hanney, Lee, Liberman, Ludy, Lytle, Malvey, McDonough, Noblin, Oetjen, Pierce, Pitts, Rotarius, Salter, Schellhase, Segal, Smith, Trujillo, Unruh, Wagner, Walters, Wan, Welker, Worrell, Zhang.

The Department of Health Professions offers baccalaureate programs which prepare students for professions in the fields of Cardiopulmonary Sciences (Respiratory Care), Health Information Management, Athletic Training, Health Services Administration, and Radiologic Sciences. The Department also offers a degree in Health Sciences - Pre-Clinical Allied Health Track for those planning to go on to a graduate clinical professional program.

The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with an accent on educating future leaders of the health care system. The Department seeks first to strengthen existing programs, as well as to identify and develop new programs that fulfill a documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, and scientific presentations. Finally, the Department seeks to provide continuing education for the health care community and consumer health education.

The programs in Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences require a minimum overall GPA of 2.5 for consideration for admission and the Athletic Training program requires a minimum overall GPA of 2.75. In addition, for admission a minimum grade of "C" (2.0) is required for prerequisite courses and required courses within the program. These programs are all accredited by their national professional associations and graduates are prepared to take the appropriate examination for certification.

### Program in Cardiopulmonary Sciences

*Director:* Jeff Ludy; HPA2 210; 407-823-2214

The major in Cardiopulmonary Sciences (also known as respiratory care) leads to the Bachelor of Science Degree. In the professional curriculum, students study respiratory therapy skills, pharmacology, life support techniques, disease and patient assessment, and patient management. Upon completion of the undergraduate program, the baccalaureate prepared individual will possess basic patient care and advanced practice patient care skills and should be prepared to assume a future leadership role within the profession. Graduates will also be prepared to take the entry-level and advanced practice national examinations. These examinations will first lead to licensing by the State of Florida (CRT examination), and then to the advanced practice credential, Registered Respiratory Therapist (RRT examination).

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

**Degrees:** Cardiopulmonary Sciences (BS)

**Tracks:** None

**Minors:** None

### Program in Health Information Management

*Director:* Tom Falen; HPA2 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

## The College of Health and Public Affairs

management of health information systems which collect, process, store, retrieve, and release health information and statistics, 3) assistance to administration, other health professionals, and medical staff in developing quality assurance programs by abstraction of medical data, preparation of statistical reports, and analysis of information, and 4) assistance in collection and analysis of data for public health services planning.

The curriculum of the Health Information Management program is approved by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). This is a limited access program and requires a separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management program are eligible to take the AHIMA Registered Health Information Administration Certification exam. By successfully passing the exam, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

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

### Program in Health Sciences-Athletic Training

*Director:* K. Schellhase; HPA2 124; 407-823-3463

The Program in Athletic Training at the University of Central Florida is a track in the Program in Health Sciences. The athletic training track is a six semester program where students complete 12-15 credits per semester while engaged in clinical affiliations. The core of athletic training coursework emphasizes the competencies and proficiencies necessary for successful clinical practice in a variety of settings in which certified athletic trainers are presently employed. A significant and important aspect of the educational process is the series of clinical experiences that occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, rehabilitation clinics, and professional athletic organizations. Upon successful completion of the course of study, the graduate with a Bachelor of Science degree in Health Sciences – Athletic Training Track is eligible to take the National Athletic Trainer's Association Board of Certification (BOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (ATC). The Program in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). 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-Pre-Clinical Allied Health Track

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

This program is a preparatory program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health, or Health Services Administration.

**Degrees:** Health Sciences (BS)  
**Tracks:** Generalist  
**Minors:** Health Sciences

### Program in Health Services Administration

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

The department offers a baccalaureate degree in Health Services Administration. The baccalaureate degree is designed for students who desire to study the business side of health care. The primary goal of the program in Health Services Administration is to prepare managers to direct a variety of health care organizations such as hospitals, HMO's, clinics and any other organization involved in the delivery or management of health care services. The undergraduate curriculum is consistent with the curricular requirements of the

Association of University Programs of Health Administration, stressing administration, policy and planning skills. A diverse health care community offers students a variety of internship experiences as well as providing placement opportunities upon graduation. Faculty are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment and integrated delivery mechanisms.

People within the health care industry with associate of science degrees in areas such as nursing, respiratory therapy, radiologic technologies, medical laboratory technology, dental hygiene, and others may find this program providing a migration path from the clinical side of the health care industry to the leadership side. Students without a background in the health care industry can build a solid understanding of the complexity of managing health services organizations.

**Degrees:** Health Services Administration (BS, MS)  
**Tracks:** None  
**Minors:** Health Services Administration, Health Sciences

### Program in Radiologic Sciences

*Director:* T. J. Edwards III; HPA2 210; 407-823-2747

The University of Central Florida offers the only public accredited Bachelor of Science in Radiologic

Sciences degree program in Florida. The Radiologic Sciences Program offers entry-level students the opportunity to specialize in conventional radiography and the advanced imaging modalities. Radiographers are integral members of the health care team dedicated to providing high quality patient care. Graduates are prepared to function as clinically competent radiographers and, with experience, advance to leadership positions in the profession.

The University of Central Florida also sponsors an A.S. to B.S. transfer program designed for ARRT certified Radiographers interested in combining their professional development with earning a baccalaureate degree in Radiologic Sciences. Didactic courses for the entry-level and the A.S. to B.S. transfer programs are offered in the classroom and on the internet. Additional information regarding the transfer program is provided in the "Articulated A.S. to B.S. Degree Programs" section of the catalog.

The primary role of radiographers is to perform medical imaging procedures for the diagnosis of disease and injury. The radiographer enjoys an interesting and challenging variety of examinations/procedures which may include conventional radiography, fluoroscopy, mammography, vascular imaging, computed tomography and magnetic resonance imaging. Employment opportunities are available in hospitals, imaging centers, and private physician offices. Career advancement opportunities include positions in advanced imaging



modalities, administration, education, and quality management.

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

The program works in conjunction with Arnold Palmer Hospital, Central Florida Regional Hospital, Drew Medical, Health Central, HealthSouth Diagnostic Center, Jewett Orthopaedic Clinic, Orlando Regional Medical Center, Orlando Regional Lucerne Hospital, Regional MRI, Orlando Regional South Seminole Hospital, UCF Student Health Services and University Diagnostic Institute.

**Degrees:** Radiologic Sciences (BS)

**Tracks:** None

**Minors:** None

## School of Nursing

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

*Faculty:* Ahern, Ark, Blackwell, Brown, Bushy, Byers, Chen, Covelli, Dennis, Desmarais, Dorner, Dow, Gullo, Heglund, Hennig, Holcomb, Hoyt, Kiehl, Kijek, Ladores, Lafferty, LaManna, Lange, Leli, Mayer, Powel, Pelliccio, Peterson, Ruland, Sheplan, F. Smith, Lisa 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, and Leesburg campuses. The RN-BSN is also offered via the Internet.

The goal of the MSN program is to prepare advanced practice nurses to assume leadership positions in a variety of healthcare settings. Majors include Nurse Practitioner (Family, Adult, or Pediatric), Clinical Nurse Specialist, Clinical Nurse Leader, Nurse Educator, and Nursing Leadership and Management. Minimum hours for the degree are 36-49 hours of graduate work depending on the major. Either a thesis or research scholarly project is required. Student must be a licensed Registered Nurse.

A certificate in Nursing and Health Professional Education is available for students with a bachelors degree in nursing or a related health field.

The doctor of philosophy in Nursing (PhD) program prepares nurse scientists to assume positions as nursing faculty, leaders in the application of innovative technologies to nursing education and clinical care, executive leaders in health care systems and scientists who contribute to the body of nursing knowledge through research.

The School of Nursing BSN and MSN programs are accredited by The Commission on Collegiate Nursing Education. The BSN Program is approved by the Florida Board of Nursing. All programs are limited access and require a separate application to the School of Nursing.

**Degrees:** Nursing (BSN) (MSN) (PhD)

**Tracks:** RN to BSN, Basic BSN, Accelerated BSN degree, AS to BSN, RN to MSN

**Minors:** None

## Department of Public Administration

*Chair:* Dr. Mary Ann Feldheim; HPA2 238; 407-823-2604

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

The Department of Public Administration offers a variety of degrees, minors, and a certificate to provide students with a broad understanding of the public management or nonprofit management. The public sector is vast and includes over 20 million employees, and the

nonprofit sector has expanded to nearly half that number. The Department prepares students for professional careers in public service at the city, county, state and federal levels. Currently the public sector in the United States includes over 87,000 governments, of which the federal government is but one. The Bachelor of Arts or Science degrees with a major in Public Administration enables students to attain entry level positions in government and other nonprofit organizations, and subsequently to advance within their organizations. Those seeking senior management and executive positions are strongly encouraged to pursue the Master of Public Administration (MPA) or Master of Nonprofit Management (MNM). Students with interests that go beyond the Masters level may also pursue a Ph.D. in Public Affairs.

The virtues of public sector employment are numerous. First, the range of employment opportunities is extraordinary and includes a variety of management and staff positions in city and county management, environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration, and emergency management, among others. Second, the salaries are generally highly competitive with private industry, despite common misconceptions to the contrary. Third, public sector employment provides people with the opportunity to "make a difference" for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.

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

**Tracks:** None

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

**Certificates:** Nonprofit Management

## School of Social Work

*Director:* Mary Van Hook; HPA1 204; 407-823-2114

*Faculty:* Abel, Allgood, J. Davis, L. Davis, Gammonley, Green, Harris, Jacinto, Kohn, Lawrence, Leon, Maiden, Turnage

The School of Social Work offers a professional degree program that is nationally accredited by the Council on Social Work Education. Its primary focus is the preparation of students for entry-level professional social work practice within diverse human service organizations such as hospitals, schools, correctional settings, public welfare departments, child placement organizations, community centers, and counseling agencies. The Social Work program is a limited access program that requires separate application to the School of Social Work.

The School of Social Work also offers the Certificates of Aging Studies (open to all majors), Children's Services (open to SW majors only) and Addictions (open to SW majors only). The Aging Studies Certificate is an interdisciplinary program that helps prepare the students to meet the needs of the elderly citizens of Central Florida.

The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing or sociology. Other students, such as those majoring in business, physical education, or art education may also find the program valuable. The Certificate in Children's Services (open to Social Work majors only) prepares social work students to respond to the special needs of children and families. This certificate is of special interest to students planning to work the field of child welfare or related areas. The Addictions Certificate (open to Social Work majors only) prepares students to work in the field of adult and adolescent substance abuse.

**Degrees:** Social Work (BSW, MSW)

**Tracks:** None

**Minors:** Aging Studies

**Certificates:** Addictions, Aging Studies, Children's Services



## College of Optics and Photonics: CREOL and FPCE

Director: Eric W. Van Stryland; 407-823-6800;  
E-mail: [info@creol.ucf.edu](mailto:info@creol.ucf.edu); Website: <http://www.creol.ucf.edu>

The College of Optics and Photonics: CREOL and FPCE is a graduate school for research and education in optics, lasers, and photonics. It was established in 1986 to provide the highest quality education in optics and lasers, conduct scholarly fundamental and applied research, and aid in the development of Florida's high technology-based industries.

CREOL (Center for Research and Education in Optics and Lasers) and FPCE (the Florida Photonics Center of Excellence) are the research arms of the The College of Optics and Photonics. The School offers Masters (MS) and Doctoral (PH.D.) Degrees in Optics. The College of Optics and Photonics/CREOL has become an internationally recognized institute with 25 faculty members, 30 Ph.D. level research scientists, and 137 graduate students. The faculty are recognized as being among the best in the optics/laser/photonics field, with two thirds holding the rank of Fellow in major national and international professional societies. It is housed in a state-of-the-art 83,000-square-foot building dedicated to optics, photonics, and laser education and research on the main campus. This facility houses ninety research laboratories equipped with over \$35 million in state-of-the-art equipment.

The research activities span the spectrum from basic science to prototype development. The faculty and research staff pursue joint research projects with industry, academia, and government laboratories, and are always seeking new opportunities to work with industry to expose students to the industrial environment and to help in tech-

nology transfer. Current research areas include: nanophotonics, biophotonics, imaging science, plasmonics, high-speed photonics networks and telecommunications, solid state laser development, nonlinear optics, laser induced damage, quantum-well optoelectronics, photonic information processing, infrared systems, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, x-ray optics, EUV sources, optical glasses, liquid crystal devices, laser materials processing, and light matter interaction. These programs are supported by over \$17 million of research grants and contracts annually from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from \$18,000 to \$27,500, are available to outstanding students pursuing graduate education in optics and photonics. Research training opportunities are also available to undergraduate students through the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation, and other research grants and contracts.

The College has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of the College. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of optics and photonics.

# THE COLLEGE OF SCIENCES

## College of Sciences

*Interim Dean:* Peter Panousis; CAS 190; 407-823-1997  
*Associate Dean:* Michael Johnson; CAS 190; 407-823-3491  
*Associate Dean:* Jack McGuire; CAS 190; 407-823-3684  
*Associate Dean:* Haven Sweet; CAS 190; 407 823-2992

The College of Sciences, one of the largest academic units at the university, educates and conducts research in physical, life, social, and behavioral sciences. The College houses the departments of Anthropology, Biology, Chemistry, Mathematics, Physics, Political Science, Psychology, Sociology, and Statistics and Actuarial Science; the Nicholson School of Communication; and the National Center for Forensic Science.

The College is responsible for all programs in the sciences and the departments collectively offer 35 baccalaureate, graduate, and pre-professional programs. For additional information concerning graduate programs, please refer to the Graduate Catalog:  
<http://graduate.ucf.edu/currentGradCatalog/>

Undergraduates enrolled in the College must fulfill all University degree requirements, including those for general education, as well as the requirements of the degree program. To be certified for graduation, a student must achieve at least a "C" GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in specified courses. Consult the program requirements and a departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign Language is not considered a foreign language and will not satisfy the requirement.

A student whose written or oral communication in any course is deemed unsatisfactory may be referred to the Office of 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 or science background, regardless of major field. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that applicants take the Law School Admission Test (LSAT). General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-Law Advisor. Advisement about the major is provided by the department offering the major.

### Prehealth Professions

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

## Advisement

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

<http://www.cas.ucf.edu/oasis>  
E-Mail: [oassis@mail.ucf.edu](mailto:oassis@mail.ucf.edu)  
*Director:* Lee Anne Kirkpatrick  
CNH 202; 407-823-2492

The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance for both the College of Arts and Humanities as well as the College of Sciences. OASIS assists students with degree requirements, policies, and procedures as well as coordinates orientation, registration, readmission for suspended students, and graduation. Questions concerning University and College academic policies and requirements should be directed to OASIS. Questions concerning the requirements within a major or minor should be directed to the department offering the program. The student should contact the department early in his/her academic career. For additional information about OASIS, please visit our website.

## Programs and Degrees

Title	Degree
Actuarial Science	BS
Advertising/Public Relations	BA
Anthropology	BA, MA, Minor
Astronomy	Minor
Biology	BS, MS, PhD, Minor
Biomolecular Sciences	PhD
Chemistry	BS, MS, PhD, Minor
Communication	MA
Forensic Science	BS, MS
Interpersonal and Organizational Communication	BA, Minor
Journalism	BA
Magazine Journalism	Minor
Mathematics	BS, MS, PhD, Minor
Mass Communication	Minor
Physics	BS, MS, PhD, Minor
Political Science	BA, MA, Minor
Psychology	BA, BS, MA, MS, PhD, Minor
Radio/Television	BA
Sociology	BA, MA, PhD, Minor
Statistics	BS, MS, Minor

## Departments and Programs

### Anthropology: Department

[http://www.cas.ucf.edu/soc\\_anthro/](http://www.cas.ucf.edu/soc_anthro/)  
E-mail: [anthropology@ucf.edu](mailto:anthropology@ucf.edu)  
*Interim Chair:* A. Chase;  
PH 403; 407-823-2227

*Faculty:* A. Chase, D. Chase, Dupras, Geiger, Howard, D. Jones, Lieberman, Long, Matejowsky, Schultz, Silver, Stearman, Wallace, Zorn

The Department offers a Bachelor of Arts in Anthropology, and provides supporting courses for Forensic Science. Students should consult with their departmental advisor early in their academic careers.

**Degrees:** Anthropology (BA)

**Tracks:** None

**Minors:** Anthropology, Anthropology in Multicultural Studies

### Biology: Department

<http://www.cas.ucf.edu/biology/>  
E-mail: [biology@ucf.edu](mailto:biology@ucf.edu)

*Chair:* David Borst; BL 301;  
407-823-2141

*Faculty:* Bayer, Borst, Calestani, Fauth, Fedorka, Harris, Hoffman, Jenkins, Logiudice, Morrison-Sheltar, Nadeau, Noss, Osborne, Parkinson, Quigley, Quintana-Ascencio, Roth, Shetlar, Sotero-Esteva, Stout, Sweet, Thomas, Vajravelu, von Kalm, Walters, Waterman, Weishampel, Worthy.

*Professors Emeritus:* Ehrhart, Ellis, Kuhn, Koevenig, Snelson, and Taylor.

The Department of Biology offers a Bachelor of Science in Biology, a Minor in Biology, the Master of Science in Biology, a graduate Certificate in Conservation Biology, and a Ph.D. in Conservative Biology, and participates in an interdisciplinary Ph.D. program in Biomolecular Sciences. The core undergraduate curriculum provides a background in the chemical, mathematical, and physical sciences, as well as broad preparation in the biological sciences. This diverse background opens career opportunities for graduates in areas outside of their particular degree program. Graduates are well prepared to further their education in professional or graduate schools. Selection of electives, in consultation with a faculty advisor, permits emphasis on a subspecialty. Careful selection of restricted and unrestricted electives allows students to satisfy requirements for admission to professional or graduate school while completing their B.S. degree in Biology. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts.

**Degrees:** Biology (BS, MS, PhD)

## The College of Sciences

**Tracks:** Biology Pre-professional (BS)

**Minors:** Biology

### Chemistry: Department

<http://www.cas.ucf.edu/chemistry>

E-mail: [chemstaf@mail.ucf.edu](mailto:chemstaf@mail.ucf.edu)

Chair: Kevin D. Belfield;

CH 117; 407-823-2246

Associate Chair and Undergraduate Coordinator: Cherie L. Geiger;

CH 325; 407-823-2135

**Faculty:** J. Ballantyne, K. Belfield, A. Campiglia, C. Clausen, D. Diaz, S. Elsheimer, B. Fookes, C. Geiger, A. Gesquiere, M. Hampton, F. Hernandez, J. Hickman, E. Kluger, Q. Huo, S. Kuebler, F. Kujawa, S. Mallik, A. Masunov, G. Mattson, H. Miles, M. Perez, R. Petzold, O. Phanstiel, T. Selby, M. Sigman, S. Santra, L. Zhai

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

**Degrees:** Chemistry (BS, MS, PhD),  
Forensic Science (BS, MS)

**Tracks:** Chemistry, Forensic Analysis,  
Forensic Biochemistry

**Minors:** Chemistry

### Communication: Nicholson School

<http://www.cas.ucf.edu/communication>

E-mail: [communication@ucf.edu](mailto:communication@ucf.edu)

Director: M.A. Shaver;

COM 238; 407-823-2681

**Faculty:** Akita, Bagley, Baltunis, Barfield, Bledsoe, Brown, Brunson, J. Butler, Collins, Costain, Davis, DeLorme, D. Shaver, Fiedler, Hall, Hanlon, Hastings, Hodgson, Ihde, Katt, Kenney, Major, Malala, Maunez-Cuadra, McCain, Mills, Morgan, Moroux, Morrison, Neel, Pryor, Rice, Santana, Scott, Smith, Sublette, Thompson, Wager, M. Wagner, Workman.

**Faculty Emeriti:** Meeske, O'Keefe, Taylor, Wycoff

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

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
2. Interpersonal & Organizational Communication. Provides knowledge, theory, and skills needed to understand and predict human communicative behavior.
3. Journalism. Provides theory and skills needed to gain employment in newspapers, magazines, and similar forms of mass communication.
4. Radio-Television. Provides theory and skills needed for careers in radio, television, and related forms of electronic communication.

A Master of Arts degree in Communication is offered.

#### Facilities

The Radio-Television Division has fully-equipped audio and video production facilities, a complete multi-camera television studio, an online radio station, and laboratories for interactive multimedia. The Journalism Division has computer labs and a digital darkroom. The Advertising/Public Relations Division has a computer writing lab. The Interpersonal/ Organizational Communication Division has a presentational speaking classroom equipped for audio/video record/playback and computerized visual presentation. The Division also has a small group laboratory equipped with audio/video record/playback.

**Degrees:** Advertising/Public Relations (BA), Interpersonal & Organizational Communication (BA), Journalism (BA), RadioTelevision (BA)

**Specializations:** Broadcast Journalism, Production, Broadcast Generalist, News Writing, Visual Communications, Editing

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

### Mathematics: Department

<http://math.ucf.edu>

E-mail: [math@mail.ucf.edu](mailto:math@mail.ucf.edu)

Chair: Zuhair Nashed;

MAP 209; 407-823-0445

**Faculty:** Andrews, Anthony, Cannon, Caron, Choudhury, Clarke, Danielyan, Dunlop-Pyle, Dutton, Griffiths, Han, Higgins, Ismail, Kassab, Katsevich, Kaup, Li, Martin, Mikusinski, Mohapatra, Nicholson, Ou, Pensky, Phillips, Qi, Reid, Ren, Richardson, Rodriguez, Rollins, Schober, Shivamoggi, Song, Sun, Tamasan, Tovbis, Vajravelu, Vartanian, Yong, Young, Zhao

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

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

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

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

**Degrees:** Mathematics (BS, MS, PhD)

**Tracks:** Applied Mathematics, Computational Mathematics,  
Engineering/Physics, Mathematics, Pure Mathematics

**Minors:** Mathematics

### Physics: Department

<http://www.physics.ucf.edu>

E-mail: [physics@ucf.edu](mailto:physics@ucf.edu)

Interim Chair: Ralph Llewellyn;

MAP 310; 407-823-2325

Associate Chair: Lee Chow;

MAP 315; 407-823-2333

**Faculty:** Bhattacharya, Bindell, Bose, Braunstein, Britt, Brueckner, Campins, Chernyak, Chow, Del Barco, Efthimiou, Fernandez, Heinrich, Johnson, Khondaker, Kokoouline, Leuenberger, Llewellyn, Luo, Martin, Montgomery, Mucciolo, Neighbor, Peale, Roldan-Cuenya, Saha, Schelling, Schulte, Tonner, Wittingham.

**Faculty Emeritus:** Brennan

**Visiting Faculty:** Cooney, Dubey, Flitsiyan, Ngwa, Zhmudsky.

The Department of Physics offers a multi-track program of study leading to the B.S. degree, giving students the flexibility to choose a suitable set of courses to prepare for their career goals. A common core of courses in theoretical and experimental physics will lead to a broad understanding of the general principles of physics. The different tracks allow students to specialize, applying problem-solving techniques in a certain area of interest; this also enhances their qualifications for employment in that area after graduation.

After graduation our students are prepared to enter advanced study in physics, engineering, medicine, environmental sciences, astronomy, and other related disciplines. They are also prepared to begin careers in positions are varied as engineering physics, computational physics, and physics education. Undergraduate physics majors benefit from small class sizes, and are encouraged to be involved in

individually designed senior projects working with a faculty advisor.

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

**Degrees:** Physics (BS, MS, PhD)

**Tracks:** General Physics, Materials Physics, Optics & Lasers, Computational Physics, Astronomy

**Minors:** Astronomy, Physics

## Political Science: Department

<http://www.cas.ucf.edu/politicalscience>

E-mail: [politics@ucf.edu](mailto:politics@ucf.edu)

Chair: R. Handberg;

CNH 415; 407-823-2608

**Faculty:** Benson, Bradford, Conroy, Dolan, Fine, Hamann, Handberg, Houghton, Jacques, Jaeger, Jewett, Jungblut, Kiel, Kinsey, Knuckey, Lanier, Morales, Pollock, Reichert, Sadri, Schraufnagel, Scott, Vittes, Wilson, Young

The Department of Political Science seeks to:

1. Provide students with a broad background for careers in foreign and domestic public service and in the private sector where a knowledge of government and politics is necessary;
2. Provide students with a broad background in pre-law to facilitate their admission to law school;
3. Prepare students for teaching, research, and graduate study in Political Science;
4. Provide a broad background for careers in politics; and
5. Educate citizens and promote their active interest in public affairs. Students should plan their major or minor in consultation with their departmental advisor according to their interests and career objectives.

Political Science courses are divided into three areas of specialization: American Politics and Policy; International Relations and Comparative Politics; and Political Theory. It is strongly recommended that majors planning to continue their education at the graduate level or to pursue a career in international fields acquire a working knowledge of a foreign language. The Department of Political Science participates in the following programs:

- Asian Studies: Contact Houman Sadri.
- Environmental Studies: Contact Dwight Kiel or Peter Jacques.
- European Studies: Contact Kerstin Hamann
- Global and International Studies: Contact Waltraud Q. Morales
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson or Annabelle Conroy.
- Space Studies: Contact Roger Handberg
- Women's Studies: Contact Terri S. Fine or Annabelle Conroy.

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

**Tracks:** American Politics, International Relations Comparative Politics, International Studies, Prelaw

**Minors:** Political Science, Political Science/Prelaw

## Psychology: Department

<http://www.cas.ucf.edu/psychology>

E-mail: [psychology@ucf.edu](mailto:psychology@ucf.edu)

Chair: Dipboye;

PH 302B; 407-823-2216

Associate Chair: W. Wooten,

PH 305E; 407-823-2216

**Faculty:** Berman, Borjesson, Bowers, Chin, Dipboye, M. Dunn, S. Dunn, Fiore, Fisher, Fritzsche, Gilson, Hancock, Hickey, Hitt, Jensen, F. Jentsch, K. Jentsch, M. Kennerley, R. Kennerley, Lavooy, McGuire, Morgan, Mottarella, Mouloua, Negy, Newlin, Pritchard, Rapport, Renk, Reynoso, Rinalducci, Salas, Shirkey, Sims, Smither, Stone-Romero, Thomas-Jenkins, Tucker, Walker, Wang, Whitten,

Wooten

**Faculty Emeritus:** Abbott, Burroughs, Rollins

The Undergraduate Psychology Program has two primary missions; to prepare students for graduate training in psychology or related fields, and to provide the skills needed for students to apply the concepts and methods of psychology in their work, their communities, and their lives.

Students may pursue either a BA or a BS degree in Psychology. The BS option has more science and math-related requirements as well as additional courses in psychology research and statistical methods. As such, it is best for students planning to pursue a graduate degree.

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

**Tracks:** None

**Minors:** Psychology, Behavioral Forensics Certificate

## Sociology: Department

<http://www.cas.ucf.edu/soc.anthro>

Chair: J. Corzine;

PH 403B; 407-823-2227

Associate Chair: D. Gay

**Faculty:** Bradatan, Campbell, Cook, Corzine, Dees, Dietz, Dupras, Ford, Gay, Goldstein, Huff-Corzine, Jasinski, Lynxwiler, Marshall, Morris, Mustaine, Rivera, Sikorska-Simmons, Wright, Zorn

The Department offers a Bachelor of Arts in Sociology. Students should consult with their departmental advisor early in their academic careers.

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

**Tracks:** Domestic Violence (MA)

**Minors:** Sociology

## Statistics and Actuarial Science: Department

<http://www.cas.ucf.edu/statistics>

Interim Chair: D. Nickerson;

CCII 206; 407-823-5528

**Faculty:** Carta, Cutchins, Gau, Han, Johnson, Ni, Pensky, Pepe, Ren, Richardson, J. Schott, S. Schott, Su, Uddin, Wang, You

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

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

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

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

**Tracks:** None

**Minors:** Statistics

# THE ROSEN COLLEGE OF HOSPITALITY MANAGEMENT



## Rosen College of Hospitality Management

*Dean:* Abraham Pizam; 9907 Universal Boulevard, Suite 231-H  
Orlando, Florida 32819; 407-903-8000

*Associate Dean:* Stephen LeBruto; 9907 Universal Boulevard, Suite  
231-A; 407-903-8015

*Faculty:* Ashley, Breiter, Chen, Croes, Dickson, DiPietro, Fisher, Fjelstul, Hara, Iskat, Juge, Jung, Kaufman, Krebs, Logan, Marshall, Milman, Muller, Murphy, Naipaul, Okumus, Rompf, Severt, Tesone, Upchurch, Wang

*Website:* [www.hospitality.ucf.edu](http://www.hospitality.ucf.edu)

The hospitality industry represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen College of Hospitality Management is ideally situated to prepare students for managerial careers in the hospitality industry. Whether the student is interested in entering lodging, food service, travel and tourism, financial management and technology, theme parks, vacation ownership resorts, golf management, or event management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 45 million tourists each year, has over 400 hotels with 120,000 rooms, 5,000 restaurants, and 75 theme parks and attractions. The industry employs a half million people in the State of Florida and many are in the Central Florida area.

The educational mission of the College is to provide students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, and to apply creative decision techniques in responding to those opportunities.

The curriculum is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and practical experiences that students will need to enter and succeed in a hospitality management career. Students also have the opportunity to experience the work world in hospitality through an internship requirement and through extensive contact with leading hospitality managers in the Central Florida area.

The College 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 provide a unique focus in the curriculum on corporate restaurant management. Students have access through the Center to leading restaurant industry executives. This academic unit is an integral part of the Rosen College of Hospitality Management.

### Distinctive Benefits

- A state-of-the-art facility located in the heart of the tourism district in Orlando, Florida with on-campus housing.
- Access to the many hospitality organizations that serve one of the premier tourist destinations in the world.
- Extensive ties with the top leadership of the Orlando area hospitality industry.
- A large number of scholarships made available through the generous support of the industry.
- A faculty committed to continuously improving their knowledge of the hospitality industry as well as their ability to teach that knowledge to their students.
- A required work experience that provides students with practical experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with experience in food preparation.
- American Resort Development Association (ARDA) Professorship of Vacation Ownership.
- Central Florida Hotel and Lodging Association (CFHLA) Professorship of Convention and Conference Management.
- Hospitality Financial and Technology Professionals (HFTP) Professorship of Hospitality Financial Management and Technology.

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

**Minor:** Hospitality Management

**Tracks:** Event Management; Vacation Ownership Resort Management; Theme Park and Attraction Management; Tourism Management; Lodging Management; Hospitality Financial Management and Technology; Golf Management





## The Office of Undergraduate Studies

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

### Liberal & Interdisciplinary Studies Classroom Bldg I, Suite 302

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

*Director:* Elliot Vitte; 407-823-0114

*Program Contact:* The Liberal Studies

Advising Team

*Academic Advisors:* Karen Cox, Lee Logan,  
Linda Skrotzky, Sandra Tabert;

The Liberal Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study that include twelve different areas plus minor degree programs. The degree includes seven different tracks: Liberal Studies, Liberal Arts, Computer Information Technology, Environmental

Studies, Nanoscience & Nanotechnology, Articulated A.S. to B.S., and Women's Studies.

**Degrees:** Liberal Studies (BA, BS, MA, MS), Social Sciences BS

**Tracks:** Liberal Studies, Liberal Arts, Environmental Studies, Women's Studies, Computer Information Technology, Nanoscience & Nanotechnology, Articulated A.S. to B.S.

**Minors:** Environmental Studies,  
Social Sciences Interdisciplinary

**Certificates:** Cultural Tourism

### Social Sciences: Program Classroom Bldg I, Suite 302

*Contact Program:* Liberal Studies Advising, 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

# UCF DEGREE PROGRAMS

---

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

# UCF DEGREE PROGRAMS

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

College of Business Administration, BA2 101,  
407-823-2184

<http://www.bus.ucf.edu>

### Admission Requirements

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

### Degree Requirements

#### 1. UCF General Education Program

(min 36 hrs)

A. Communication Foundations	9 hrs
Required: SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100CC Computer Fund. for Bus	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics	3 hrs
or ECO 2023 Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

#### 2. Common Program Prerequisites

Must be completed with a "C" (2.0) or better

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Macroeconomics
ECO 2023	Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100CC	Computer Fundamentals for Business

\* At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

#### 3. Common Body of Knowledge

(30 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Rrequired in 1st or 2nd semester)	6 hrs
GEB 3356	Intro to International Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management/Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
BUL 3130	Legal and Ethical Environment of Business	3 hrs

Last Semester:

MAN 4720	Strategic Management	3 hrs
----------	----------------------	-------

#### 4. Special College and/or Departmental Requirements

- Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411 count towards this 60 hour requirement).
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have a "C" (2.0) or better in each common program prerequisites class.
- A minimum grade of "C" (2.0) must be earned in each accounting, business law, and tax course completed. Principles of Financial Accounting and Principles of Managerial Accounting are included under this rule.
- Students 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 by submitting a letter indicating the reasons for academic difficulties and positive plans for achieving an Accounting and Tax GPA of 2.0 or higher. Readmission is not automatic.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.

Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

- All students must have credit for a course in each of the following areas:
  - 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 3361	Intermediate Managerial Accounting	3 hrs
ACG 4401C	Accounting Information Systems	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 3253	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	3 hrs
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

Restricted Electives listed below

Note: Course substitutions in any area require approval by the Director, School of Accounting. A grade of "B" or better in pre-requisite course required to take graduate level courses and a minimum GPA of 2.75.

#### 7. Restricted Electives

(3 hrs)

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

ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
ACG 4401C	Accounting Information Systems	3 hrs
ACG 4651	Auditing	3 hrs
ACG 4671	Internal Auditing	3 hrs
ACG 4932	Approved Special Topics Courses in Accounting	3 hrs
ACG 4970H**	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
BUL 5332	Advanced Business Law Topics	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 4453	Financial Models	3 hrs
ISM 3253	MIS Techniques	3 hrs
ISM 4212C	Database Management Systems	3 hrs
TAX 5015	Advanced Taxation Topics	3 hrs

(HPA electives to be added for Governmental Specialization)

\*\*Enrollment restricted to students accepted into the Honors in the Major Program

#### 8. Honors in the Major

(6 hrs)

Eligibility: Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credits including at least 12 graded upper-division hours at UCF; at

## UCF Degree Programs

least a 3.5 GPA within the major; and at least a 3.2 cumulative GPA including all upper-division courses regardless of institution.

**Admission:** Application for admission to the Honors in the Major program must be approved by both the Honors in the Major Coordinator for the School of Accounting and Associate Dean of the Honors College plus the payment of \$25.00 one-time membership dues.

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

*ACG 4903	Directed Readings in Accounting or	3 hrs
*ACG 4904H	Honors Seminar in Accounting	3 hrs

ACG 4970H 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, 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.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

### SUGGESTED FOUR YEAR PLAN OF STUDY - ACCOUNTING

#### Freshman

1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
MAC 1105*	3	Art/Music/Lit	3
Psy/Syg/Ant	3	CGS 2100CC*	3
Science	3	Science	3
Must complete 9 hours in a Summer term			

#### Sophomore

1st Term	15 hrs	2nd Term	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
SPC 1600	3	POS 2041	3
***Elective	3**	***Elective	3
***Elective	3	ECO 3401*	3

\* "C" (2.0) or better grade required in each class

\*\* Accounting majors must have a "C" (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major

#### Junior

1st Ter	15 hrs	2nd Term	15 hrs
GEB 3031	6	ECO 3411	3
**BUL 3130	3	GEB 3356	3
**ISM 3011	3	MAN 3025	3
**ACG 3131	3	**ACG 4401C	3
		**ACG 3361	3

\*\* Accounting majors must have a "C" (2.0) or better in each class to include law and tax and a 2.0 GPA in major.

#### Senior

1st Term	15 hrs	2nd Term	15 hrs
**TAX 4001	3	MAN 4720	3
ACG Specialization	3	**ACG Specialization	3
FIN 3403	3	**Elective	3
**ACG Specialization	3	**ACG Restricted Elective	3
MAR 3023	3	**Elective	3

\*\*\*General electives as required to reach 120 semester hours.

## ACTUARIAL SCIENCE (B.S.)

### College of Sciences

**Department of Statistics and Actuarial Science, CC II  
212, 407-823-5562**

<http://www.cas.ucf.edu/statistics>

**E-mail: [statistics@mail.ucf.edu](mailto:statistics@mail.ucf.edu)**

Nizam Uddin, 407-823-2692

### Admission Requirements

Students must apply for admission to the Actuarial Science Concentration by March 15 of the Spring semester two years prior to expected graduation. Transfer students expecting to graduate in less than two years should apply immediately upon admission to UCF.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.

- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department
- Students must earn at least a "C" (2.0) in each STA course
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major
- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with a departmental advisor
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

## 1. UCF General Education Program (36 + 3 hrs)

Note: Certain courses must be selected in the GEP for the major which brings the GEP above 36

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
Select MAC 2311	
Select STA 20233	
D. Social Foundations	6 hrs
Select ECO 2013	
Select an ANT, PSY or SYG listed course	
E. Science Foundations	8 hrs
Select BSC 2010C	
Select PHY 2053C CHM 2045C	

## 2. Common Program Prerequisites (14 hrs)

COP 3502C*	Computer Science I	3 hrs
ECO 2013	Princ of Macroeconomics	GEP
ECO 2023	Princ of Microeconomics	3 hrs
MAC 2311	Calculus with Analy Geo I	GEP
MAC 2312	Calculus with Analy Geo II	4 hrs
MAC 2313	Calculus with Analy Geo III	4 hrs

\*See Transfer Notes for possible substitutes

## 3. Core requirements (53 hrs)

ACG 2021	Princ Financial Accounting	3 hrs
ACG 2071	Princ Managerial Accounting	3 hrs
FIN 3403	Business Finance	3 hrs
STA 2023	Statistical Methods I	GEP
STA 4321	Statistical Theory I	3 hrs
STA 4322	Statistical Theory II	3 hrs
STA 4672	Actuarial Statistical Methods	3 hrs
STA 4942	Practicum Act Science	3 hrs
STA 4183	Theory of Interest	3 hrs
STA 4130	Life Contingencies I	3 hrs
STA 4131	Life Contingencies II	3 hrs
COT 4500	Numerical Calculus	3 hrs
ENC 3241	Writing for Technical Professionals	3 hrs
BSC 2010C	Biology I	GEP
CHM 2045C or PHY 2053C		GEP
a. Select one course		4 hrs
MAS 3105	Linear and Matrix Algebra	
MAS 3106	Linear Algebra	
b. Select a third science course and associated, with lab		4 hrs
BSC 2011C	Biology II (PR: BSC 2010C)	
CHM 2045C	Chemistry Fundamentals (if not taken in GEP)	
CHM 2046 & 2046L	Chemistry Fundamentals II & Lab (PR: CHM 2045C)	
PHY 2053C	College Physics I (if not taken in GEP)	
PHY 2054C	College Physics II (PR: PHY 2053C)	
c. Select three from among the following:		9 hrs
STA 4641	Risk Theory & Decision	
STA 4163	Statistical Methods II	
STA 4164	Statistical Methods III	
STA 4676	Life Testing Analysis	
STA 4675	Demographic Statistics	
STA 4187	Theory of Graduation	
STA 4939	Problems in Actuarial Science	
STA 5139	Credibility Theory and Loss Distributions	
STA 5646	Casualty Insurance	

## 4. Restricted Upper Division Electives (6 hrs)

- Select from upper division or graduate statistics, actuarial science, or mathematics courses
- Selected courses in business Business courses may be used only with prior approval by the Department of Statistics and Actuarial Science

- The following cannot be used: MAC 2233, MAC 2253, MAC 2254, all MAE courses; and MHF 4404

## 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each STA course.
- 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. Electivess (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required** 120 hrs

**Related Programs:** Mathematics, Mathematics Education, Statistics

**Related Minors:** Statistics, Mathematics

### Transfer Notes:

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

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

- COP 3502C\*: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C\*: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Summer

Math test See catalog 0

### Freshman Year

<b>Fall</b>		<b>Spring</b>	
ECO 2013 Prin of Macroeco	3	ENC 1102 Composition II	3
ENC 1101 Composition I	3	ECO 2023 Prin of Microeco	3
MAC 2311 Calc Anal Geo I	4	MAC 2312 Calc Anal Geo II	4
STA 2023 Stat Methods I	3	ACG 2021 Prin of Fin Acc	3

### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
COM 1000* req# 1A3-GEP	3	BSC 2010C Biology I	4
PHY 2053C* req# 1E1-GEP	4	EUH 2001* req# 1B1-GEP	3
MAC 2313 Calc Anal Geo III	3	PHI 2010* req# 1B3-GEP	3
ACG 2071 Prin of Mangr Acc	3	ENC 3241 Wr the Tech Pof	3
STA 4321 Stat Theory I	3	STA 4322 Stat Theory II	3

### Junior Year

<b>Fall</b>		<b>Spring</b>	
FIN 3403 Business Finance	3	PSY 2012* req# 1D2-GEP	3
STA 4183 Theory of Interest	3	COP 3502C Computer Science I	3
MAS 3105* req# 3a-Core	4	STA 4942 Pract in Act Sci	3
STA 4222* req# 4-ResElect	3	BSC 2011C* req# 3b-Core	4

# UCF Degree Programs

STA 4163\* req# 3c-Core 3

## Senior Year

Fall		<b>Spring</b>	
COT 4500 Numerical Calculus	3	MUL 2010* req# 1B2-GEP	3
STA 4130 Life Cont I	3	STA 4131 Life Cont II	3
STA 4672 Act Stat Methods	3	STA 4939* req# 3c-Core	3
STA 4641* req# 3c-Core	3	Elective* Check restrictions	4
STA 4102* req# 4-ResElect	3	Elective* Check restrictions	4

## ADVERTISING/PUBLIC RELATIONS (B.A.)

**College of Sciences**  
**Nicholson School of Communication, COM 250**  
**407-823-2829**

<http://www.cas.ucf.edu/communication>

**E-mail: ad-pr@ucf.edu**

Contact: 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 to be admitted the next Spring term
  - February 1 to be admitted the next Summer term
  - July 1 to be admitted the next Fall term
- Admission is based on multiple factors, not strictly GPA.
- Attain an overall minimum 2.25 GPA based on a minimum of 45 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies somewhat with the quality of applicants, but for previous acceptance periods, the minimum GPA did not drop below 3.3.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op credit can be used in the major with advisor's approval
- Students should consult with a departmental advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication.
- Students electing to complete a minor must select the minor from outside the Nicholson School of Communication to remain below the 40 credit hour school maximum
- 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)

<b>A. Communication Foundations</b>	
Select ENC 1101 & ENC 1102	6 hrs
Select SPC 1600 or SPC 1016	3 hrs
<b>B. Cultural and Historical Foundations</b>	
9 hrs	
<b>C. Mathematical Foundations</b>	
Prefer MGF 1106 (may substitute a higher level math)	3 hrs
Select STA 2014C	3 hrs
<b>D. Social Foundations</b>	
6 hrs	
<b>E. Science Foundations</b>	
6 hrs	

### 2. Common Program Prerequisites (0 hrs)

Select one course	GEP
SPC 1016	Fund of Technical Presentations
SPC 1600	Fund Oral Communication

### 3. Core requirements (27 hrs)

STA 2014C	Principles of Statistics	GEP
ADV 3000	Principles of Advertising	3 hrs
ADV 4101	Advertising Copywriting	3 hrs
COM 3110	Business and Prof Communication	3 hrs
COM 3311	Communication Research Methods	3 hrs
MMC 4254	Ad/PR Campaigns	3 hrs
MMC 4200	Mass Communication Law	3 hrs
PUR 3100	Writing for Public Relations	3 hrs
PUR 4000	Public Relations	3 hrs
Select one		3 hrs
PUR 4941	Internship	
ADV 4941	Internship	

### 4. School Exit Requirements

- To avoid delaying graduation, the student must request a review of requirements before registering for the last term.
- Achieve an overall "C" GPA (2.0) in required UCF Ad/PR courses. This GPA does not include electives.
- Computer Competency met by CGS 1060C , STA 1060C or departmental assessment.

### 5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement  
 Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 6. External Restricted Electives (variable)

Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

### 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 hrs**

**Related Programs:** Marketing  
 Related Minors: Business, Marketing, Psychology

### Transfer Notes:

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

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<b>Freshman Year</b>			
<b>Fall</b>		<b>Spring</b>	
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	STA 2014C Prin of Statistics	3
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1120* req# Lang/Elect	4	Elective* Check restrictions	3
		SPN 1121* req# Lang/Elect	4
<b>Sophomore Year</b>			
<b>Fall</b>		<b>Spring</b>	
BSC 1005* req# 1E2-GEP	3	CHM 1020* req# 1E1-GEP	3
EUH 2000* req# 1B1-GEP	3	EUH 2001* req# 1B2-GEP	3
POS 2041* req# 1D1-GEP	3	REL 2300* req# 1B3-GEP	3
SPC 1600* req# 1A3-GEP	3	SYG 2000* req# 1D2-GEP	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3
		Application See catalog	0

<b>Junior Year</b>			
<b>Fall</b>		<b>Spring</b>	
ADV 3000 Principles of Ad	3	COM 3110 Bus Prof Com	3
PUR 4000 Public Relations	3	COM 3311 Com Res Methods	3
Restricted* req# Res Elect	3	MMC 4200 Mass Com Law	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3

<b>Senior Year</b>			
<b>Fall</b>		<b>Spring</b>	
ADV 4101 Ad Copywriting	3	MMC 4254 Ad/Pr campaigns	3
PUR 3100 Wr for Pub Reltn	3	PUR 4941 or ADV 4941	3
Grad Review See catalog.	0	Restricted* req# Res Elect	3
Restricted* req# Res Elect	4	Restricted* req# Res Elect	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3
Restricted* req# Res Elect	3		

## AEROSPACE ENGINEERING (B.S.A.E.)

**College of Engineering and Computer Science  
Mechanical, Materials & Aerospace Engineering  
Department,**

**ENGR 307, 407-823-2416; Fax 407-823-0208**

**<http://www.mmae.ucf.edu>**

*Undergraduate Advisor: Waheecha Illasari*

### Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, **Orientation**, found elsewhere in this catalog.

### 1. UCF General Education Program for Engineering Students (36+2 hrs)

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

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311, (PR: MAC 1114)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Take Prefer ECO 2013 <i>or</i> ECO 2023.	
2. Take ANT 2000, PSY 2012, <i>or</i> SYG 2000.	
E. Science Foundations	7 hrs
1. Take Select PHY 2048/48L (PR: MAC 2311).	
2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310	

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

### 3. Courses Required for the Major (56 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1111C	Engineering Computer Graphics	2 hrs
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3343	Thermodynamics	3 hrs
EMA 3706	Structure & Properties of Aerospace Materials	3 hrs
EGN 3373	Principles of Electrical Engrng	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EAS 3010	Fundamentals of Aerospace Flight	3 hrs
EAS 3101	Fundamentals of Aerodynamics	3 hrs
EAS 3800C	Aerospace Engineering Measurements	2 hrs
EAS 3810C	Design of Aerospace Experiments	2 hrs
EAS 4105	Flight Mechanics	3 hrs
EAS 4134	High-Speed Aerodynamics	3 hrs
EAS 4200	Flight Structures	3 hrs
EAS 3530	Space Systems Concepts <i>or</i>	
EAS 4400	Spacecraft Attitude Dynamics <i>or</i>	
EAS 4505	Orbital Mechanics	3 hrs
EAS 4300	Aerothermodynamics-Propulsion Sys	3 hrs
EML 3034C	Modeling Methods in MMAE	3 hrs
EML 4312C	Feedback Control	3 hrs
EGM 3601	Solid Mechanics	3 hrs
EAS 4210C	Space Structural Design	3 hrs

### 4. Approved Technical Electives (9 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 residency at UCF.
  - 25% of course work must be completed in residency at UCF
  - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
  - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).
- Total Semester Hours Required: 128 hrs**

**Related Programs:** Mechanical Engineering.

**Related Minors:** Space Studies, Intelligent Robotic Systems, Engineering Leadership & Management.

### 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

# UCF Degree Programs

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

<b>FIRST YEAR</b>			
<b>Fall</b>			
*ENC 1101 English Comp I	3	<b>Spring</b>	15 <sup>1</sup>
*CHS 1440 Chem for Eng or CHM 2045C w/lab	4	EGN 1007C : Eng Conc/Meth	1
MAC 2311 Calculus I	4	*ENC 1102 English Comp II	3
EGN 1006C Intro to Eng Prof	1	MAC 2312 Calculus II	4
EGN 1111C Eng Comp Graphics	2	*PHY 2048 Phys Eng/Sci I w/lab	4
		*SPC 1016 Tech Presentations	3
<b>Summer</b>			
MAC 2313 Calculus III	4		
EMA 3706 Struct & Prop of Aerospace Mat'l	3		
*Social Foundations	3		
<b>SECOND YEAR</b>			
<b>Fall</b>			
*Historical Foundations	3	<b>Spring</b>	12
*MAP 2302 Diff Equations	3	EGN 3373 Prin Elec Eng	3
*PHY 2049 Phys Eng II w/lab	4	EGN 3321 Engr Anal-Dynmcs	3
EGN 3310 Engr Anal - Statics	3	EGN 3343 Thermodynamics	3
		EGM 3601 Solid Mechanics	3
<b>Summer</b>			
*ECO 2013 or 2023 Macro or Micro	3		
* Historical Foundations	3		
STA 3032 Prob & Stats/Engrs			
<b>THIRD YEAR</b>			
<b>Fall</b>			
EML 3034C Model Meth's MMAE	3	<b>Spring</b>	14
EAS 3010 Fund of Aerospace Flight	3	EAS 3101 Fund of Aerodyn	3
EAS 3800C Aerosp Eng Msr	2	EAS 3810C Dsgn Aerosp Expr	2
Science Foundation	3	EAS 4210C Space Structural Dyn	3
EAS 4200 Flight Structures	3	EAS 4505 Orbital Mechncs or	3
		EAS 3530 Space Sys Concepts	3
		Approved technical elective	3
<b>FOURTH YEAR</b>			
<b>Fall</b>			
EML 4312C Feedback Control	3	<b>Spring</b>	15 <sup>1,2</sup>
EAS 4105 Flight Mechanics	3	EAS 4300 Aerotherm Prop Sys	3
EAS 4134 High-Spd Aerodyn	3	EAS 4710C Aerosp Design II	3
EAS 4700C Aerosp Design I	3	or	
EGN 4412C Interdisciplinary Design I		EGN 4413C Interdiscipl Design II	3
		Cultural Foundations	3
		Approved technical elective	3
		Approved technical elective	3

### Notes:

- Courses marked with an asterisk (\*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- Students should view the MMAE website ([www.mmae.ucf.edu](http://www.mmae.ucf.edu)) or consult with the MMAE Department in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
- The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
- Aerospace engineering students must earn at least 32 hours in residence at UCF.

### IMPORTANT NOTICE

- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a

proper sequence regarding prerequisites.

If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034C ("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 Accelerated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Accelerated BS/MS program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

### ANIMATION TRACK in ART

See Art - Animation Track

## ANTHROPOLOGY (B.A.)

### College of Sciences

### Department of Sociology and Anthropology, PH 403,

407-823-2227,

[http://www.cas.ucf.edu/soc\\_anthro](http://www.cas.ucf.edu/soc_anthro)

E-mail: [anthropology@ucf.edu](mailto:anthropology@ucf.edu)

Contact: A. Chase, 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology.

Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

### Admission Requirements:

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 Anthropology Department
- Students must maintain a grade of "C" (2.0) or better in all courses used for the major
- Co-op or internship credit cannot be used in the major without prior approval
- Students should consult with a departmental advisor
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
- D. Social Foundations
  - 1. Select a listed course 3 hrs
  - 2. Select ANT 2000 3 hrs
- E. Science Foundations
  - 1. Select a listed course 3 hrs
  - 2. Select ANT 2511 3 hrs

### 2. Common Program Prerequisites

(0 hrs)

- ANT 2000\* General Anthropology GEP
- ANT 2511\* The Human Species GEP

\*See Transfer Notes for possible substitutes

### 3. Core Requirements: Lower Level

(6 hrs)

- ANT 2100 Arch & the Rise of Human Cult 3 hrs
- ANT 2410 Cultural Anthropology 3 hrs

### 4. Core Requirements: Upper Level

(12 hrs)

- All students are required to take the following upper level courses in the four subdisciplines of Anthropology:
- ANT 3145 Archaeology of Complex Societies 3 hrs
  - ANT 3640 Language and Culture 3 hrs



ANT 4034	History of Anthropological Thought	3hrs
ANT 4586	Human Origins	3 hrs

## 5. Area Study

All students are required to take one of the following courses:

ANT 3158	Florida Archaeology	<b>(3 hrs)</b>
ANT 3163	Mesoamerican Archaeology	
ANT 3164	Ancient Incas	
ANT 3168	Maya Archaeology	
ANT 3311	Indians of the SE US	
ANT 3312	Ethnology of North American Indians	
ANT 3313	Indians of N American High Plains	
ANT 3314	Indians of the Northeast Woodlands	
ANT 3318	Indians of the Northwest Coast	
ANT 43320	Indians of the Southwest	
ANT 3319	The Anthropology of Diaspora	
ANT 3332	Peoples and Culture of Latin America	
ANT 4340	Caribbean Cultures	
ANT 3358	Life and Death in Ancient Egypt	
ANT 3363	Anthropology of Japan	
ANT 4144	Prehistory of North America	
ANT 4153	North American Archaeology	
ANT 4352	African Societies and Cultures	
ANT 4354	Postcolonial Africa	
ANT 4308	Gender Issues in Latin America	

## 6. Restricted Electives

**(18 hrs)**

Six other Anthropology courses must be taken to complete the major. These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).

ANT 4101	Archaeological Sciences
ANT 3115	Archaeological Method and Theory
ANT 3142	Old World Prehistory
ANT 4184	Mortuary Archaeology
ANT 3212	Peoples of the World
ANT 3241	Magic, Ritual, and Belief
ANT 3245	Native American Religions
ANT 3262	Rural Society
ANT 3273	Law and Culture
ANT 3302	Sex, Gender, and Culture
ANT 3316	Black/Seminole Relationships
ANT 4438	Anthropology of Tourism
ANT 4467	Nutritional Anthropology (or ANG 5467)
ANT 3541	Biobehavioral Anthropology
ANT 3550	Primateology
ANT 3701	Applied Anthropology
ANT 4702	Culture, Power, and Development
ANT 4802	Ethnographic Field Methods
ANT 4180C	Seminar in Laboratory Analysis
ANT 4266	Economic Anthropology
ANT 4462	Medical Anthropology
ANT 4516	Human Biological Diversity
ANT 4521C	Forensic Anthropology
ANT 4525C	Human Osteology
ANT 4528C	Advanced Forensic Anthropology
ANT 4824	Advanced Archaeological Field Work
ANG 5165	Field Research in Maya Studies
ANG 5166	Problems of Maya Archaeology
ANG 5167	Maya Hieroglyphs
ANG 5228	Maya Iconography

## Departmental Exit Requirements

- A grade of "C" (2.0) or better in all courses used for the major
- Computer Competency met by ANT 2100
- Students will be required to take a standard exit exam.

## 8. Foreign Language Requirements

**(0-8 hrs)**

**Admission: Met by graduation requirement.**

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 9. Electives

**(variable)**

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

## 10. University Minimum Exit Requirements

- A "C" (2.0) GPA in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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:** Sociology, Graduate Certificate in Maya Studies

**Related Minors:** African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Judaic Studies, Latin American, Caribbean, and Latino Studies, Russian Area Studies, Sociology, and Women's Studies

### Transfer Notes:

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

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

- ANT 2000: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANT 2511: any ANT course. However, ANT 2511 will need to be taken for the major.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Freshman Year

<b>Fall</b>		<b>Spring</b>	
ANT 2000 General Anthro	3	ANT 2511 The Human Species	3
ENC 1101 Composition I	3	ARH 2050* req# 1B2-GEP	3
EUH 2000* req# 1B1-GEP	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	POS 2041* req# 1D1-GEP	3
COM 1000* req# 1A3-GEP	3	STA 2014C* req# 1C2-GEP	3

#### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
REL 2300* req# 1B3-GEP	3	PSC 1121* req# 1E1-GEP	3
ANT 2100 Arch the of	3	ANT 3640 Language and Cult	3
ANT 2410 Cult Anthro Anthro	3	ANT 4034 His of Anthro Tht	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

#### Junior Year

<b>Fall</b>		<b>Spring</b>	
ANT 3145 Arch of Cmplx Soc	3	ANT 4586 Human Origins	3
ANT 3142* req# 6-ResElect	3	ANT 3164* req# 5-Area	3
Elective* Check restrictions	3	ANT 3212* req# 6-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

#### Senior Year

<b>Fall</b>		<b>Spring</b>	
ANT 3302* req# 6-ResElect	3	ANT 3312* req# 6-ResElect	3
Elective* Check restrictions	3	ANT 3332* req# 6-ResElect	3
Elective* Check restrictions	3	ANT 3541* req# 6-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## ART (B.F.A.)

**College of Arts and Humanities**

**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 majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

# UCF Degree Programs

## Admission Requirements

- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses. The Spring review takes place in the first week of March. The Fall review takes place in the first week of October.
- Graphic Design students must satisfactorily complete the mandatory Graphic Design Portfolio Review for admission to this restricted access program, to be admitted in the following Fall. The application deadline is April 1 for Fall admission.
- Students unable to satisfactorily complete either above requirement, ART 3950 – Portfolio Review or the Graphic Design Portfolio Review, may continue in the Art Department in the Art History track.
- Students may enter the BFA Program as early as the first semester of their Junior year. If they have a 3.0 overall average in ART courses, they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.
- "D" grades from other institutions do not meet departmental requirements.
- Note: Individual portfolio reviews are not possible due to the large number of applicants to the program.

## Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- BFA students must maintain a 3.0 GPA in all ART courses.
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor in their specialization
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations  
Select a course from group B.1 3 hrs  
Select ARH 2050 3 hrs  
Select ARH 2051 3 hrs
- C. Mathematical Foundations  
Prefer MGF 1106 3 hrs  
(may substitute a higher level math)  
Prefer STA 1060C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

### 2. Common Program Prerequisites (18 hrs)

- ART 2201C Design Fundamentals 2-D 3 hrs
  - ART 2203C\* Design Fundamentals 3-D 3 hrs
  - ART 2300C\* Drawing Fundamentals I 3 hrs
  - ART 2301C\* Drawing Fundamentals II 3 hrs
  - ARH 2050 History of Western Art I GEP
  - ARH 2051 History of Western Art II GEP
  - GRA 2101C\* Intro to Computer Art 3 hrs
- Any ART prefix, studio, or media courses at the 2000-4000 levels  
\*See Transfer Notes for possible substitutes

### 3. Core Requirements (9 hrs)

- ART 2820 Art as Interface 3 hrs
- ARH 2500 Survey of Non-Western Art 3 hrs
- Any ART prefix, studio, or digital art courses at the 2000-4000 levels 3 hrs
- ART 3950 Portfolio Review 0 hrs

### 4. Restricted Electives (42 hrs)

- a. Specialization: 18 hrs**  
Select six upper division courses from one area: (classes with an asterisk may be repeated for credit)  
Ceramics (ART 3760C, ART 3764C, ART 4783C\*)  
Drawing (ART 3332C, ART 4320C\*)  
Drawing/Printmaking Combination (ART 3332C, ART 4320C\*, ART 3433C, ART 4402C\*)  
Drawing/Illustration Combination (ART 3332C, GRA 3151C, ART 4320C\*, GRA 4154C\*)

- Graphic Design (GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 4197C\*, GRA 4802C)
  - Painting (ART 3504C, ART 4505C\*)
  - Photography (PGY 3410C, PGY 4420C\*, PGY 4440C)
  - Sculpture (ART 4710C\*)
- \*may be repeated for credit

### b. Elective in Art: 15 hrs

- Select five Art courses; two of which may be lower division. Select from at least three of the following areas, excluding the area of specialization.
- Animation, Ceramics, Drawing, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

### c. Additional Electives 9 hrs

- Select three upper-division Art History courses  
or  
Select one upper division course in Art History, Humanities, and Social Science. (A maximum of six hours of Independent Study, Practicum, and Internship are permitted).

### 5. Departmental Exit Requirements (3 hrs)

- ART 4935 BFA Exhibit/Seminar required, except for Graphic Design specialization (BFA Exhibit Seminar is only offered during Spring Semester)
- Achieve at least a "B" GPA (3.0) overall in courses within the major
  - Each senior is required to submit a portfolio of representative work in the student's specialization, for review and approval by faculty, during their last semester of matriculation toward the degree
  - Computer Competency met by STA 1060C or GRA 2101C

### 6. Foreign Language Requirements (0-8 hrs)

- Admission:** Met by graduation requirement  
**Graduation:** Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 7. Electives (variable)

- Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 8. University Minimum Exit Requirements

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

### Total Semester Hours Required 120 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:

- GRA 2101C\*: A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

## Freshman Year

<b>Fall</b>		<b>Spring</b>	
ARH 2050 His of West Art I	3	ARH 2051 His of West Art II	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210* req# 1B1-GEP	3	STA 1060C Stat Using Excel	3
MGF 1106* req# 1C1-GEP	3	ART 2201C Design Fund 2 D	3
ART 2820 Art as Interface	3	Elective* Check restrictions	3

## Sophomore Year

<b>Fall</b>		<b>Spring</b>	
COM 1000* req# 1A3-GEP	3	ANT 2000* req# 1D2-GEP	3
POS 2041* req# 1D1-GEP	3	BSC 1005* req# 1E2-GEP	3
ART 2203C Design Fund 3 D	3	CHM 1020* req# 1E1-GEP	3
ART 2300C Drawing Fund I	3	ART 2301C Drawing Fund II	3
GRA 2101C Intro to Comp Art	3	ARH 2500 His of West Art	3
		ART 3950 Portfolio Review	0

## Junior Year

<b>Fall</b>		<b>Spring</b>	
ART 2500C* req# 2-CPP	3	ART 3161* req# 3-Core	3
ART 3332C* req# 4a. Spec	3	ART 4320C* req# 4a. Spec	3
ART 4320C* req# 4a. Spec	3	FIL 3286C* req# 4b. ResEI	3
GRA 4151C* req# 4a. Spec	3	ARH 4800* req# 4c. ResEI2	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4
Application See catalog	0		

## Senior Year

<b>Fall</b>		<b>Spring</b>	
GRA 4154C* req# 4a. Spec	3	GRA 4154C* req# 4a. Spec	3
ART 2754C* req# 4b. ResEI	3	ART 3760C* req# 4b. ResEI	3
PGY 2401C* req# 4b. ResEI	3	PGY 4420C* req# 4b. ResEI	3
ARH 4450* req# 4c. ResEI2	3	ARH 4430* req# 4c. ResEI2	3
Elective* Check restrictions	1	ART 4935 BFA Exh Seminar	3

## Fall

		<b>Spring</b>	
ART 2500C* req# 2-CPP	3	ART 3161* req# 3-Core	3
ART 3332C* req# 4a. Spec	3	ART 4320C* req# 4a. Spec	3
ART 4320C* req# 4a. Spec	3	FIL 3286C* req# 4b. ResEI	3
GRA 3151C* req# 4a. Spec	3	ARH 4800* req# 4c. ResEI2	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4
Application See catalog	0		

## Senior Year

<b>Fall</b>		<b>Spring</b>	
GRA 4154C* req# 4a. Spec	3	GRA 4154C* req# 4a. Spec	3
ART 2754C* req# 4b. ResEI	3	ART 3760C* req# 4b. ResEI	3
PGY 2401C* req# 4b. ResEI	3	PGY 4420C* req# 4b. ResEI	3
ARH 4450* req# 4c. ResEI2	3	ARH 4430* req# 4c. ResEI2	3
Elective* Check restrictions	1	ART 4935 BFA Exh Seminar	3

## ART - ANIMATION TRACK (B.F.A.)

### College of Arts and Humanities

**Animation, VAB 210, 407-823-3110,**

**<http://www.art.ucf.edu/> then select "Programs"**

**E-mail: [animation@ucf.edu](mailto:animation@ucf.edu)**

K. Kovach 407-823-2983

**Note:** Although the department maintains a small computer lab for student use, Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

#### Admission Requirements

- Animation students must successfully complete an Animation Portfolio Review to be admitted to this restricted access program. The Animation Portfolio Review submission deadline is March 15 for admission in the following Fall semester, and September 15 for admission in the following Spring semester.
- Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.
- Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA program.
- Students must maintain an overall minimum 3.0 GPA in ART 2201C and ART 2300C.
- Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.

**Note:** Unfortunately, individual reviews are not possible due to the large number of applicants to this program.

## Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Grades below "C" (2.0) in lower level courses do not satisfy major requirements
- Co-op credit cannot be used in the major
- "D" grades from other institutions do not meet departmental requirements. Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken within the UCF Art and Film programs. Nine of these must be in Animation specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program

**(36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
  - Select a course from group B.1 3 hrs
  - Select ARH 2050 3 hrs
  - Select ARH 2051 3 hrs
- C. Mathematical Foundations 3 hrs
  - Prefer MGF 1106 (may substitute a higher level math)
  - Prefer STA 1060C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

### 2. Common Program Prerequisites

**(18 hrs)**

- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2203C\* Design Fundamentals 3-D 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ART 2301C Drawing Fundamentals II 3 hrs
- ARH 2050 The History of Western Art I GEP
- ARH 2051 The History of Western Art II GEP
- GRA 2101C\* Intro to Computer Art 3 hrs
- ART 2XXX-4XXX any ART prefix, studio, media courses 3 hrs

\* See Transfer Notes for possible substitutes

### 3. Core Requirements

**(12 hrs)**

- ART 2820 Art as Interface 3 hrs
- ARH 2500 Survey of Non-Western Art 3 hrs
- Any two upper level Art or Film History courses 6 hrs

### 4. Animation Upper Division Courses

**(18 hrs)**

- ART 3643C Digital Effects and Compositing 3 hrs
- FIL 3286C Introduction to Animation 3 hrs
- FIL 3287C Intermediate Animation 3 hrs
- FIL 3410 History of Animated Films 3 hrs
- FIL 4288C Advanced Animation 3 hrs
- FIL 4289C\* Animation Workshop 3 hrs

\*Workshops may be repeated

### 5. Restricted Electives

**Elective in Art (15 hrs)**

- Select five courses; two of which may be lower division  
 Select from at least three of the following areas, excluding the area of specialization:
- Ceramics, Drawing, Drawing/Printmaking
  - Illustration, Painting, Photography, Printmaking,
  - Sculpture, and Special Topics Studio Courses.

### 6. Departmental Exit Requirements

- ART 4971 Thesis 3 hrs
- Achieve at least a 3.0 average in required art and film courses
- Computer Competency met by CGS 1060C or GRA 2101C

### 7. Foreign Language Requirements

**(0-8 hrs)**

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 8. Electives

**(variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

# UCF Degree Programs

## 9. University Minimum Exit Requirements

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

**Total Semester Hours Required** **120 hours**

**Related Programs:** Art, Art Education, Art History, Film Production/Screen writing, Radio/TV

**Related Minors:** Art, Digital Media, Film

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools, and in-state senior 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:

- **GRA 2101C\*:** A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Freshman Year

Fall	Spring
ARH 2050 His of West Art I	3 ARH 2051 His of West Art II
ENC 1101 Composition I	3 CGS 1060C Intro to Comp Sci
HUM 2210* req# 1B1-GEP	3 ENC 1102 Composition II
MGF 1106* req# 1C1-GEP	3 ART 2201C Design Fund 2 D
ART 2820 Art as Interface	3 Elective* Check restrictions

#### Sophomore Year

Fall	Spring
COM 1000* req# 1A3-GEP	3 BSC 1005* req# 1E2-GEP
POS 2041* req# 1D1-GEP	3 CHM 1020* req# 1E1-GEP
ART 2203C Design Fund 3 D	3 ART 2301C Drawing Fund II
ART 2300C Drawing Fund I	3 ART 2394* req# 2-CPP
GRA 2101C Intro to Comp Art	3 FIL 3286C Intro to Animation

#### Junior Year

Fall	Spring
ART 3161* req# 3-Core	3 FIL 3287C Int Animation
GRA 3151C* req# 3-Core	3 FIL 3410 His of Ani Films I
ART 3643C Dig Effects Compst	3 ART 3332C* req# 5-ResEl
PGY 2401C* req# 5-ResEl	3 ART 4320C* req# 5-ResEl
SPN 1120* req# Lang/Elect	4 SPN 1121* req# Lang/Elect
Application See catalog	0

#### Senior Year

Fall	Spring
ARH 2500 His of West Art	3 ANT 2000* req# 1D2-GEP
FIL 4288C Advanced Animation	3 FIL 4289C Animation Workshop
PGY 3410C* req# 5-ResEl	3 PGY 4420C* req# 5-ResEl
Elective* Check restrictions	4 ART 4971 Senior Thesis
	Elective* Check restrictions
	Elective* Check restrictions

## ART - HISTORY TRACK (B.A.)

**College of Arts and Humanities**

**Art Department, VAB 117, 407-823-2676**

**<http://www.art.ucf.edu/>**

**E-mail: [art@ucf.edu](mailto:art@ucf.edu)**

M. Gonzalez, 407-823-4995

**Admission Requirements**

**none**

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in lower level courses do not satisfy major requirements
- Co-op credit cannot be used in the major
- Students should consult with a departmental art history advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of ARH specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Prefer a course from group B. 1	3 hrs
Select ARH 2050 History of Western Art I	3 hrs
Select ARH 2051 History of Western Art II	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites (12 hrs)

ART 2201C Design Fundamentals 2-D	3 hrs
ART 2300C Drawing Fundamentals I	3 hrs
ARH 2050 History of Western Art I	GEP/3 hrs
ARH 2051 History of Western Art II	GEP/3 hrs

### 3. Core Requirements (18 hrs)

ARH 2500 Survey Non-Western Art	3 hrs
ARH 4310 Italian Renaissance Art	3 hrs
ARH 4430 Nineteenth Century Art	3 hrs
ARH 4450 Twentieth Century Art	3 hrs
ARH 4800 Theory and Criticism of Visual Arts	3 hrs
ENC 3311 Advanced Expository Writing	3 hrs

### 4. Restricted Electives (21 hrs)

- a. One Non-Western Art History Course: 3 hrs

ARH 3520 African Art	
ARH 4545 Art of India	
ARH 4655 MesoAmerican Art	
- b. One of the following courses: 3 hrs

ARH 4200 Medieval Art	
ARH 4350 Baroque Art	
ARH 4892 Women in Art	
- c. Select 15 additional hours from following: 15 hrs

ARH 3471 Art in Last 25 Years	
ARH 3520 African Art	
ARH 3610 American Art	
ARH 3710 History of Photography I	
ARH 3711 History of Photography II	
ARH 3720 History of Prints	
ARH 4170 Greek and Roman Art	
ARH 4350 Baroque Art	
ARH 4655 MesoAmerican Art	
ARH 4892 Women in Art	
ARH 5897 Adv. Seminar in Art History	
ARH 3XXX-4XXX Additional Art History course	

### 5. Departmental Exit Requirements (4 hrs)

- |                             |       |
|-----------------------------|-------|
| ARH 4912 Senior Thesis      | 3 hrs |
| ARH 4906 Comprehensive Exam | 1 hr  |
- Achieve at least a "C" GPA (2.0) in courses within the major
  - Computer Competency met by STA 1060C, GRA 2101C, or ARH 3820

**6. Foreign Language Requirements (0-11 hrs)**

**Admission:** Met by graduation requirement.

**Graduation:** Proficiency equivalent to four semesters of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. German, French or Italian preferred, although other languages are acceptable with prior consent of advisor. Standardized examinations for foreign languages may be used to meet the requirement.

**7. Electives (variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department. (A maximum of six hours of Independent Study, Practicum, and Internship are permitted).

**8. University Minimum Exit Requirements**

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

**Total Semester Hours Required 120 hours**

**Related Programs:** Studio Art (BA, BFA), Art Education, Animation, Digital Media.

**Related Minors:** Studio Art, Partners in Visual Art Education

**Transfer Notes:**

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

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

<b>Fall</b>		<b>Spring</b>	
ARH 2050 His of West Art I	3	ARH 2051 His of West Art II	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210* req# 1B1-GEP	3	STA 1060C Stat Using Excel	3
MGF 1106* req# 1C1-GEP	3	ARH 2500 His of West Art	3
ARH elective	3	Elective* Check restrictions	3

**Sophomore Year**

<b>Fall</b>		<b>Spring</b>	
COM 1000* req# 1A3-GEP	3	ANT 2000* req# 1D2-GEP	3
POS 2041* req# 1D1-GEP	3	BSC 1005* req# 1E2-GEP	3
ART 2201C Design Fund 2 D	3	CHM 1020* req# 1E1-GEP	3
ART 2300C Drawing Fund I	3	ARH 4545* req# 4a-ResEI	3
ENC 3311 Adv Exp Writing	3	SPN 1120* req# Lang/Elect	4

**Junior Year**

<b>Fall</b>		<b>Spring</b>	
ARH 4310 Italian Renais Art	3	ARH 4430 19th Century Art	3
ARH 4450 20th Century Art	3	ARH 4800 Thry Critic of Vis	3
ARH 3710* req# 4c-ResEI	3	ARH 3711* req# 4c-ResEI	3
ARH 4655* req# 4c-ResEI	3	Elective* Check restrictions	3
SPN 1121* req# Lang/Elect	4	SPN 2200* req# Lang/Elect	3

**Senior Year**

<b>Fall</b>		<b>Spring</b>	
ARH 4350* req# 4b-ResEI	3	ARH 4170* req# 4c-ResEI	3
ARH 4912 Senior Thesis	3	ARH 4906 Comprehensive exam	1
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

**ART - STUDIO TRACK (B.A.)**

**College of Arts and Humanities**

**Art Department VAB 117, 407-823-2676**

**http://www.art.ucf.edu/**

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

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.

**Degree Requirements**

- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses. The Spring review takes place the first week of March. The Fall review takes place the first week of October.
- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C+" (2.00) in lower level ART 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 hours must be in an area of specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

**1. UCF General Education Program (36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
  - Select a course from group B.1 3 hrs
  - Select ARH 2050 The History of Western Art I 3 hrs
  - Select a course from either group B.1 or B.2 3 hrs
- C. Mathematical Foundations
  - Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
  - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

**2. Common Program Prerequisites (21 hrs)**

- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2203C\* Design Fundamentals 3-D 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ART 2301C Drawing Fundamentals II 3 hrs
- ARH 2050 The History of Western Art I GEP
- ARH 2051 The History of Western Art II 3 hrs
- GRA 2101C\* 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 2820 Art As Interface 3 hrs
- ARH 2500 History of Non-Western Art 3 hrs
- ART 3950 Portfolio Review 0 hrs

**4. Restricted Electives (27 hrs)**

- Specialization:**  
Select nine upper division courses from at least three areas:
- Art History (any upper level ARH courses)
  - Ceramics (ART 3760C, ART 4783C\*)
  - Drawing and Printmaking (ART 3332C, ART 3433C, ART 4320C\*, ART 4402C\*)
  - Illustration (GRA 3151C, GRA 4154C\*)
  - Painting (ART 3504C, ART 4505C\*)
  - Photography (PGY 2401C, PGY 4420C\*, PGY 4440C)
  - Sculpture (ART 2701C, ART 4710C\*)
  - The Artist Book (ART 4173)
  - Type & Design (GRA 3113C)
- \*may be repeated for credit

**5. Departmental Exit Requirement**

- Achieve at least a "C" GPA (2.0) overall in courses within

# UCF Degree Programs

- the major
- Computer Competency met by STA 1060C or GRA 2101C

## 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

(A maximum of six hours of Independent Study, Practicum, and Internship permitted.)

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required 120 hours**

**Related Programs:** Art History, Studio Art (BFA), Art Education, Animation, Digital Media

**Related Minors:** Partners in Visual Art Education, Digital Media

### Transfer Notes:

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

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

- GRA 2101C: may substitute 3 hours of any digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

<b>Fall</b>		<b>Spring</b>	
ARH 2050 His of West Art I	3	ARH 2051 His of West Art II	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210* req# 1B1-GEP	3	STA 1060C Stat Using Excel	3
MGF 1106* req# 1C1-GEP	3	ART 2201C Design Fund 2 D	3
ART 2820 Art as Interface	3	Elective* Check restrictions	3

### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
COM 1000* req# 1A3-GEP	3	ANT 2000* req# 1D2-GEP	3
POS 2041* req# 1D1-GEP	3	BSC 1005* req# 1E2-GEP	3
ART 2203C Design Fund 3 D	3	CHM 1020* req# 1E1-GEP	3
ART 2300C Drawing Fund I	3	ART 2301C Drawing Fund II	3
GRA 2101C Intro to Comp Art	3	ARH 2500 His of West Art	3
		ART 3950 Portfolio Review	0

### Junior Year

<b>Fall</b>		<b>Spring</b>	
ART 3332C* req# 4-ResElect	3	ART 3161* req# 2-CPP	3
GRA 3151C* req# 4-ResElect	3	ART 4320C* req# 4-ResElect	3
Elective* Check restrictions	1	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

### Senior Year

<b>Fall</b>		<b>Spring</b>	
ARH 4350* req# 4-ResElect	3	ARH 4430* req# 4-ResElect	3

ART 4320C* req# 4-ResElect	3	GRA 4154C* req# 4-ResElect	3
PGY 3410C* req# 4-ResElect	3	PGY 4420C* req# 4-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## ART EDUCATION (B.S.)

### College of Education

### Department of Teaching and Learning Principles ED 209

<http://pegasus.cc.ucf.edu/~arted>

*Program Coordinator:* Thomas Brewer

ED 206-J, 407-823-3714

E-mail: [tbrewer@mail.ucf.edu](mailto:tbrewer@mail.ucf.edu)

### Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

### Degree Requirements

- Students should see an advisor prior to registering for classes
- 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	3 hrs
ENC 1102 Composition II	3 hrs
Select SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations	(9 hrs)
Select AMH 2010 U.S. History 1492-1877	3 hrs
Select AMH 2020 U.S. History 1877-Present	3 hrs
Select PHI 2010 Introduction to Philosophy	3 hrs
C. Mathematical Foundations	(6 hrs)
Select MGF 1106 Finite Mathematics	3 hrs
Select one:	3 hrs
STA 1060C Basic Statistics using MS Excel <i>or</i>	
STA 2014C Principles of Statistics	
D. Social Foundations	(6 hrs)
Prefer POS 2041 American National Government	3 hrs
Select PSY 2012 General Psychology	3 hrs
E. Science Foundations	(6 hrs)
Select PSC 1121 Physical Science	3 hrs
Select one:	3 hrs
ANT 2511 The Human Species <i>or</i>	
BSC 1005 Biological Principles	

Note: See laboratory component under Section 2.

### 2. Common Program Prerequisites (43 hrs)

A. Communications	(9 hrs)
ENC 1101 Composition I	GEP
ENC 1102 Composition II	GEP
SPC 1600 Fundamentals of Oral Communication	GEP
B. Humanities	(6 hrs)
PHI 2010 Introduction to Philosophy	GEP
ARH 2050 History of Western Art I	3 hrs
C. Mathematics	(9 hrs)
MAC 1105 College Algebra	3 hrs
MGF 1106 Finite Mathematics	GEP
One of the following (per GEP)	GEP
STA 1060C Basic Statistics using MS Excel <i>or</i>	
STA 2014C Principles of Statistics	
D. Social Science/History	(12 hrs)
AMH 2010 U.S. History 1492-1877	GEP
AMH 2020 U.S. History 1877-Present	GEP
POS 2041 American National Government	GEP
PSY 2012 General Psychology	GEP
E. Science	(9 hrs + lab)
PSC 1121 Physical Science	GEP
One of the following (per GEP)	GEP
ANT 2511 The Human Species <i>or</i>	
BSC 1005 Biological Principles	
Select one:	3 hrs

AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		1 hr
BSC1005L	Biological Principles Laboratory <i>or</i>	
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)

*ARH 2051	History of Western Art II	3 hrs
*ART 2201C	Designs Fundamentals I	3 hrs
*ART 2203C	Designs Fundamental II	3 hrs
*ART 2300C	Drawing Fundamentals I	3 hrs
*ART 2301C	Drawing Fundamentals II	3 hrs
*GRA 2101C	Intro to Computer Graphics	3 hrs
ART 2754C	Ceramics	3 hrs
ART 2500C	Painting	3 hrs

\*Prerequisites for all 3000 and 4000 core and elective ARE and ART courses.

### 3. Education Core Requirements (15 hrs)

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

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

- Program Internship I Prerequisites: EDG 4323 and at least 50% of all required art courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.
- See additional requirements listed under College of Education, Office of Clinical Experiences

### 5. Core Requirements (9 hrs)

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.
- Pass all applicable sections of the Florida Teacher Certification Examination.

### 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed

- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 11. Total Program Semester Hours Required 127 hrs

Consult with your advisor and review your degree audit for more recent information.

### 12. Recommended Four-Year Sequence of Courses

#### Freshman Year

<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
EDF 2005	3 hrs	ARH 2051	3 hrs
ENC 1101	3 hrs	EDG 2701	3 hrs
MGF 1106	3 hrs	ENC 1102	3 hrs
ARH 2050	3 hrs	MAC 1105	3 hrs
PSY 2012	3 hrs		

<b>Summer</b>	<b>(6 hrs)</b>
EME 2040	3 hrs
SPC 1600	3 hrs

#### Sophomore Year

<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
AMH 2010	3 hrs	AMH 2020	3 hrs
ART 2201C	3 hrs	ART 2203C	3 hrs
BSC 1005	3 hrs	ART 2300C	3 hrs
PHI 2010	3 hrs	POS 2041	3 hrs
STA 2014C	3 hrs	PSC 1121	3 hrs
		PSC 1121L	1 hr

<b>Summer</b>	<b>(3 hrs)</b>
GRA 2101C	3 hrs
AST 2002	3 hrs

#### Junior Year

<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(15 hrs)</b>
ARE 4356	3 hrs	ARE 4352	3 hrs
ART 2301C	3 hrs	ART 2500C	3 hrs
EDF 4214	3 hrs	RED 4043	3 hrs
EDG 4323	3 hrs	Restricted elective (ARE/ARH/ART/PGY 3/4XXX)	3 hrs
TSL 4080	3 hrs	Restricted elective (ARE/ARH/ART/PGY 3/4XXX)	3 hrs

<b>Summer</b>	<b>(3 hrs)</b>
ART 2754C	3 hrs

#### Senior Year

<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
ARE 4351	3 hrs	ESE 4943	12 hrs
EDF 4603	3 hrs		
ESE 3940	3 hrs		
Restricted elective (ARE/ARH/ART/PGY 3/4XXX)	3 hrs		

## BIOLOGY (B.S.)

### College of Sciences

**Biology Department, BL 301, 407-823-2141**

<http://www.cas.ucf.edu/biology>

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

Contact: 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, BSC4937L, 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

# UCF Degree Programs

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 in the two majors.

- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

## 1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations	
1. Select ENC 1101 and ENC 1102	6 hrs
2. Prefer SPC 1016	3 hrs
B. Cultural and Historical Foundations	
C. Mathematical Foundations	
1. Select MAC 2311 or MAC 2241	4 hrs
2. Select STA 2023	3 hrs
D. Social Foundations	
E. Science Foundations	
1. Select CHM 2045C	4 hrs
2. Select BSC 2010C	4 hrs

## 2. Common Program Prerequisites (16 hrs)

BSC 2010C*	Biology I	GEP
BSC 2011C*	Biology II	4 hrs
Select one Calculus course		
MAC 2311*	Calculus w/ Anal Geometry I	GEP
MAC 2241	Calculus for Life Sciences	GEP
STA 2023*	Statistical Methods I	GEP
CHM 2045C+	Chem Fund I	GEP
CHM 2046 & L	Chem. Fund II & Lab	4 hrs
Select one Physics sequence with labs*		
PHY 2053C	College Physics I	8 hrs
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

+CHM 2040 plus CHM 2041 can substitute for CHM 2045C

## 3. Core requirements (21-23 hrs)

Select one Chemistry sequence		
CHM 2210	Organic Chem. I, and	3 hrs
CHM 2211 & L	Organic Chem. II & lab	5 hrs
or		
CHM 31020	Analytical Chemistry, and	5 hrs
CHM 2205	Intro Organic & Biochemistry	5 hrs
PCB 3044	Ecology	3 hrs
PCB 3063	Genetics	3 hrs
PCB 3023	Molecular Cell Biology	3 hrs
PCB 4683	Population Biol & Evolution	4 hrs

(Note: Students planning on entering professional or graduate school should take Biochemistry (BCH 4053, BCH 4054) as well as additional Calculus courses. Students are urged to consult their departmental advisor.)

## 4. Upper Division Restricted Electives (22 hrs)

- Courses must be selected from the groupings listed below.
- Student must complete at least one course dealing exclusively with animals (marked 'a') and one course dealing exclusively with plants (marked 'b').
- At least three credit hours from each group must be completed.
- At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department.
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- Courses at the 5000 level are only open to seniors and beginning graduate students.

4.1 Form/Function (minimum of one lecture course)		
BCH 4053	Biochemistry I	3 hrs
BCH 4054	Biochemistry II	3 hrs
b BOT 4223C	Plant Anatomy	4 hrs
b BOT 4303C	Plant Kingdom	5 hrs
b BOT 4503	Plant Physiology	3 hrs
BSC 4101	History of Biology	3 hrs
a BSC 4454	Research in Animal Physiology	2 hrs
PCB 3063L	Genetics Laboratory	1 hr
PCB 3233	Immunology	3 hrs
PCB 3024L	Molecular Cell Biology Laboratory	2 hrs
PCB 3703C	Human Physiology	4 hrs

PCB 4514	Genetics II	3 hrs
PCB 4524	Molecular Biology II	3 hrs
a PCB 4723	Animal Physiology	4 hrs
PCB 4683L	Population Bio and Evolution Lab	1 hr
PCB 5107C	Adv Cell Biology	4 hrs
b PCB 5108	Concepts in Plant Cell Biology	4 hrs
a PCB 5256C	Adv Develop Biology	4 hrs
PCB 5556	Conser. Genetics	3 hrs
PCB 5665C	Human Genetics	4 hrs
a ZOO 3713C	Comparative Vert Anatomy	5 hrs
ZOO 3733C	Human Anatomy	4 hrs
a ZOO 4603C	Embryology/Development	5 hrs
a ZOO 4753C	Vertebrate Histology	4 hrs

## 4.2 Environmental (minimum of one lecture course)

b BOT 3152C	Local Flora	3 hrs
b BOT 3800	Ethnobotany	3 hrs
b BOT 4156C	Florida Wildflowers	4 hrs
b BOT 4686C	Conservation of Native Plants	4 hrs
b BOT 5623C	Plant Geography & Ecology	4 hrs
BSC 4312C	Marine Biology	4 hrs
PCB 3044L	Ecology Laboratory	1 hr
PCB 3304C	River Ecology	4 hrs
PCB 3355C	Tropical Marine Biology	2 hrs
PCB 3442	Florida Aquatic Ecology	3 hrs
PCB 4302C	Physicochemical Limnology	4 hrs
PCB 4303C	Biological Limnology	4 hrs
PCB 5045C	Conservation Biology	4 hrs
PCB 5328C	Landscape Ecology	4 hrs
PCB 5326C	Ecosystems of Florida	5 hrs
PCB 5485	Models in Ecology	3 hrs
PCB 5xxx	Methods in Experimental Ecology	3 hrs
PCB 5xxxL	Tropical Biology Research and Conservation	3 hrs
a ZOO 4513	Animal Behavior	3 hrs
a ZOO 5520	Behavioral Ecology	3 hrs
a ZOO 5815	Zoogeography	4 hrs
a ZOO 5881C	Fisheries Management	4 hrs
a ZOO 5893L	Repro Mgt Zool Env	1 hr

## 4.3 Systematic (minimum of one lecture course)

b BOT 4713C	Plant Taxonomy	5 hrs
b BOT 5485C	Terrestrial Cryptogams	3 hrs
a BSC 5xxx	Advanced Entomology	4 hrs
a ENY 4004C	General Entomology	4 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3301C	Aquatic Biology	4 hrs
a ZOO 4205C	Bio & Ecol of Metazoan Inverts	4 hrs
a ZOO 4310C	Vertebrate Evolution & Ecol	4 hrs
a ZOO 5456C	Ichthyology	4 hrs
a ZOO 5463C	Herpetology	4 hrs
a ZOO 5475C	Ornithology	4 hrs
a ZOO 5486C	Mammalogy	4 hrs

Additional courses (e.g., 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 class and research information on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors should not take any courses required in the major as a transient student at a community college.

## 6. Foreign Language Requirements (0-8 hrs)

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

**Graduation:** none

## 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 8. University Minimum Exit Requirements

- A 2.0 UCF GPA



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

**Total Semester Hours Required** **120 hrs**

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

**Related Minors:** Biology, Molecular and Microbiology, Environmental Studies.

**Transfer Notes:**

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

**Acceptable Substitutes:**

The following substitutions are acceptable for common program prerequisites if taken as part of the AA course work:

- BSC 2010C & Lab: may use PCB 2010, PCB 2011, PCB 2021, PCB 2131, BSC 1040, or BSC 2012
- BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require either BSC 2011C or both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 2014C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282. However, statistics at or above the level of STA 2023 is required in the major and still must be taken.
- MAC 2311: may use MAC 2233, MAC 2253 or MAC 2281
- Physics: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Summer**

Chem test See catalog	0
Math test See catalog	0

**Freshman Year**

Fall	Spring
BSC 2010C Biology I	ENC 1102 Composition II
CHM 2045C Chemistry Fund I	BSC 2011C Biology II
ENC 1101 Composition I	CHM 2046 Chemistry Fund II
Elective* Check restrictions	CHM 2046L Chemistry Fund L
	Elective* Check restrictions

**Sophomore Year**

Fall	Spring
MAC 2311 Calc Anal Geo I	SPC 1016 Fund Tech Presntn
POS 2041* req# 1D1-GEP	CHM 2211* req# 3-Core
STA 2023 Stat Methods I	PCB 3063 Genetics
CHM 2210* req# 3-Core	BOT 3800* req# 4.2 ResE-b
PCB 3044 Prin of Ecology	Elective* Check restrictions

**Junior Year**

Fall	Spring
PHY 2053C* req# 2-CPP	PHY 2054C* req# 2-CPP
PCB 3023 Mol Cell Biology	PCB 4723* req# 4.1 ResE-a
BOT 4303C* req# 4.1 ResEI	BSC 4312C* req# 4.2 ResEI
Elective* Check restrictions	Elective* Check restrictions

**Senior Year**

Fall	Spring
HUM 2210* req# 1B1-GEP	MUL 2010* req# 1B2-GEP
PSY 2012* req# 1D2-GEP	CHM 2211L* req# 3-Core
REL 2300* req# 1B3-GEP	PCB 4683L* req# 4.1 ResEI
PCB 4683 Popl Biology Evol	MCB 3020C* req# 4.3 ResEI
Elective* Check restrictions	Elective* Check restrictions

**BIOLOGY - PREPROFESSIONAL CONCENTRATION (B.S.)**

**College of Sciences**

**Biology Department, BL 301, 407-823-2141**

**<http://www.cas.ucf.edu/biology>**

**E-mail: [biology@ucf.edu](mailto:biology@ucf.edu)**

Contact : F. Logiudice, 407-823-2141

Students who hope to gain admission to a professional school (medical, dental, optometry, veterinary medicine, etc.) can meet the admission requirements while pursuing a Biology degree. The following track lists courses that will meet both sets of requirements.

**Admission Requirements**

**none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- **Notice:** Professional schools do not accept AP or IB credit.
- Co-op or internship credit cannot be used in the major
- No more than four hours of BSC 4422L, BSC4937L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 23 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization in the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

**1. UCF General Education Program**

**(36+3 hrs)**

(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations	
1. Select ENC 1101 and ENC 1102	6 hrs
2. Prefer SPC 1016	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311 or MAC 2241	4 hrs
2. Select STA 2023	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select CHM 2045C	4 hrs
2. Select BSC 2010C	4 hrs

**2. Common Program Prerequisites**

**(16 hrs)**

BSC 2010C*	Biology I	GEP
BSC 2011C*	Biology II	4 hrs
Select one Calculus course		GEP
MAC 2311*	Calculus w/ Anal Geometry I	GEP
MAC 2241	Calculus for Life Sciences	
STA 2023*	Statistical Methods I	GEP
CHM 2045C+	Chem Fund I	GEP
CHM 2046 & L	Chem. Fund II & lab	4 hrs
Select one Physics sequence with labs*		8 hrs
PHY 2053C	College Physics I	
PHY 2054C	College Physics II	
<i>or</i>		
PHY 2048 & L	Physics Engr. & Sci. I & Lab	
PHY 2049 & L	Physics Engr. & Sci. II & Lab	

\*See Transfer Notes for possible substitutes  
 +CHM 2040 plus CHM 2041 can substitute for CHM 2045C

**3. Core requirements**

**(21 hrs)**

PCB 3044	Ecology	3 hrs
PCB 3063	Genetics	3 hrs
CHM 2210	Organic Chem. I	3 hrs
CHM 2211 & L	Organic Chem. II & lab	5 hrs
PCB 3023	Molecular Cell Biology	3 hrs
PCB 4683	Population Biology & Evolution	4 hrs

**4. Restricted Electives (Suggested)**

**(22 hrs)**

- Student must complete at least one course dealing exclusively

## UCF Degree Programs

with animals (marked 'a') and one course dealing exclusively with plants (marked 'b').

- At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department.
- Transferred courses must be at a 3000 level or higher.
- The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements. For complete listing, see Biology B.S. degree program.

### 4.1 Form/Function (minimum of one lecture course)

BCH 4053	Biochemistry I	3 hrs
BCH 4054	Biochemistry II	3 hrs
a BSC 4454	Research in Animal Physiology	2 hrs
PCB 3063L	Genetics Laboratory	1 hr
PCB 3024L	Molecular Cell Biology Laboratory	2 hrs
PCB 3233	Immunology	3 hrs
PCB 4514	Genetics II	3 hrs
PCB 5665C	Human Genetics	4 hrs
a PCB 4723	Animal Physiology	4 hrs
a ZOO 3713C	Comparative Vert Anatomy	5 hrs
a ZOO 4603C	Embryology/Development	5 hrs
a ZOO 4753C	Vertebrate Histology	4 hrs

### 4.2 Environmental (minimum of one lecture course)

b BOT 3800	Ethnobotany	3 hrs
------------	-------------	-------

### 4.3 Systematic (minimum of one lecture course)

MCB 3020C	General Microbiology	5 hrs
a ZOO 4205C	Bio & Ecol of Metazoan Inverts	4 hrs
a ZOO 4310C	Vertebrate Evolution & Ecol	4 hrs

## 5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving class and research information on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors 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 is 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 2021
- 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.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Summer

Chem test See catalog	0
Math test See catalog	0

### Freshman Year

Fall	Spring
BSC 2010C Biology I	ENC 1102 Composition II
CHM 2045C Chemistry Fund I	BSC 2011C Biology II
ENC 1101 Composition I	CHM 2046 Chemistry Fund II
Elective* Check restrictions	CHM 2046L Chemistry Fund L
	Elective* Check restrictions

### Sophomore Year

Fall	Spring
MAC 2311 Calc Anal Geo I	SPC 1016 Fund Tech Presntrn
POS 2041* req# 1D1-GEP	CHM 2211 Organic Chm II
STA 2023 Stat Methods I	PCB 3063 Genetics
CHM 2210 Organic Chm I	BOT 3800* req# 4.2-ResE-b
PCB 3044 Prin of Ecology	MAC 2312 Calc Anal Geo II

### Junior Year

Fall	Spring
HUM 2210* req# 1B1-GEP	MUL 2010* req# 1B2-GEP
PHY 2048* req# 2-CPP	PHY 2049* req# 2-CPP
PHY 2048L* req# 2-CPP	PHY 2049L* req# 2-CPP
PCB 3023 Mol Cell Biology	PCB 4723* req# 4.1-ResE-a
ZOO 3713C* req# 4.1-ResEI	Elective* Check restrictions

### Senior Year

Fall	Spring
PSY 2012* req# 1D2-GEP	CHM 2211L* req# 3-Core
REL 2300* req# 1B3-GEP	BCH 4054* req# 4.1-ResEI
PCB 4683 Popl Biology Evol	MCB 3020C* req# 4.3-ResEI
BCH 4053* req# 4.1-ResEI	Elective* Check restrictions
Elective* Check restrictions	Elective* Check restrictions

## BUSINESS ADMINISTRATION (B.A.B.A.)

(Completion program for individuals who have a statewide articulated A.A. from a Florida public community college)

### College of Business Administration

**BA 240, 407-823-2184**

<http://www.bus.ucf.edu>

**email: cba@bus.ucf.edu**

Clermont campus advising: Selena Forrest, 352-536-2174; Cocoa campus advising: Angelia Jones, 321-433-7889; Daytona campus advising: LeeAnn Davis, 386-506-4021; Main Campus Advising: BA 325, 407-823-5256

The Bachelor of Arts in Business Administration (B.A.B.A.) within the College of Business Administration is a degree that will allow students to tailor their degree program to meet the needs of their chosen profession, through the use of an existing minor and a foreign language. The B.A.B.A. degree is significantly different than the traditional business degree at UCF such as Marketing, Finance,

Accounting, etc. The B.A.B.A. degree would permit course enrollment across various disciplines, in correspondence with the academic and life goals of each student. As such, B.A.B.A. is an individualized program of study consisting of; the common program prerequisites, an approved academic minor, one year of foreign language, and the business core. Students can choose any minor outside the College of Business. The B.A.B.A. degree enables UCF's undergraduate students to graduate from the University with a specialized degree, having a business emphasis, uniquely designed by the student and his or her advisor.

## Admission Requirements

2.0 GPA and completion of General Education and Common Program Prerequisites.

## Degree Requirements

**(Note: This degree program is offered only at Cocoa, Daytona, MetroWest, Palm Bay, Sanford/Lake Mary, and South Lake Campuses.)**

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
- Students wanting a Bachelor of Arts in Business Administration must apply for admission to the major.
- Any student receiving a B.A.B.A. degree must complete one-half (15) of the 30 upper level business courses for their degree program in the College of Business Administration.
- Students must earn at least a 2.0 GPA in the College of Business Administration.
- Students seeking a B.A.B.A. major must earn a grade of "C" (2.0) or better in each course applied toward the major.

## 1. UCF General Education Program (36 hrs)

- |   |       |
|---|-------|
| A. Communication Foundations                            | 9 hrs |
| Select SPC 1600   |       |
| B. Cultural and Historical Foundations                  | 9 hrs |
| 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                       | 3 hrs |
| ECO 2013 Microeconomics, PSY 2012, SYG 2000 or ANT 2000 |       |
| E. Science Foundation                                   |       |

## 2. Common Program Prerequisites (18-21 hrs)

- Must be completed with a "C" (2.0) or better.
- |            |                                     |  |
|------------|-------------------------------------|--|
| ACG 2021   | Principles of Financial Accounting  |  |
| ACG 2071   | Principles of Managerial Accounting |  |
| ECO 2013   | Macroeconomics                      |  |
| ECO 2023   | Microeconomics                      |  |
| *ECO 3401  | Quantitative Business Tools         |  |
| CGS 2100CC | Computer Fundamentals for Business  |  |
- \*UCF students who have completed MC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" or better must take ECO 3401.

## 3. Common Body of Knowledge (30 hrs) Required for all students

- First or subsequent semester in the College of Business Administration:
- |          |   |       |
|----------|---|-------|
| GEB 3031 | Cornerstone (Required in 1st or 2nd semester) | 6 hrs |
| GEB 3356 | Introduction to International Business        | 3 hrs |
| BUL 3130 | Legal & Ethical Environments of Business      | 3 hrs |
| ECO 3411 | Quantitative Business Tools II                | 3 hrs |
| FIN 3403 | Business Finance                              | 3 hrs |
| MAN 3025 | Management of Organizations                   | 3 hrs |
| ISM 3011 | Essentials of Management Information Systems  | 3 hrs |
| MAR 3023 | Marketing                                     | 3 hrs |
- Last Semester:
- |          |                      |       |
|----------|----------------------|-------|
| MAN 4720 | Strategic Management | 3 hrs |
|----------|----------------------|-------|

## 4. Area of Specialization (18 hrs min)

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major
- Final exams will be given during Exam Week.

- Any student receiving a business degree must complete one half
- ## 5. Departmental Exit Requirement (3 hrs)
- Maintain a minimum GPA of 2.0 in all 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:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required: 120 hrs (A.A. Transfers)**

## Transfer Notes

- 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. UCF students who have completed the 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.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate or Finance. These are third and fourth year (junior and senior) course areas and cannot be satisfied with freshman or sophomore level courses.
- Any student receiving a B.A.B.A. degree must complete one half (15) or the 30 upper level business courses for their degree program in the UCF College of Business Administration.
- 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.

## CARDIOPULMONARY SCIENCES (B.S.)

College of Health and Public Affairs

HPA2 210; 407-823-2214

<http://www.cohpa.ucf.edu/health.pro/>

Undergraduate Program Director: Jeffery E. Ludy, EdD, RRT

E-mail: [jludy@mail.ucf.edu](mailto:jludy@mail.ucf.edu)

### Admission Requirements - Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program.

- Separate Application to the *limited access program* must be made directly to the program prior to February 1st of the year admission is sought.
- Application to the University must also be submitted by the program deadline of February 1st. Acceptance to UCF is necessary before acceptance to the Cardiopulmonary Sciences program

# UCF Degree Programs

can occur.

- This limited access program is work-intensive and courses include clinical practice in a variety of health care settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- A personal interview is a required part of the application process.
- Student must complete all general education, foreign language, and program admission prerequisites by the end of Spring Semester before starting the program.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C".
- A one page statement of intent for entry into the profession must be included with the program application. Typical papers are single spaced and approximately 500 words in length. Candidate should reflect on their reasons for wishing to become a respiratory care professional and their feelings concerning their recent site visit to a respiratory or cardiopulmonary department.
- Applicants are required to complete a cardiopulmonary resuscitation (CPR) program specifically designed for health care providers prior to admission to the program.
- The limited access portion of the cardiopulmonary sciences program has a requirement for all students to submit a criminal background check prior to the scheduling of a personal interview. This requirement mirrors clinical affiliates' need to guarantee patient safety by screening students prior to providing them access to their patient populations.
- The practice of respiratory care can be a physically challenging experience. Students must possess a level of visual acuity, auditory perception, and motor coordination necessary to participate fully in this limited access program. Specific questions about the physical requirements for this program and professional duties should be directed to the Program Director.

This department will continue to accept Associate in Arts (AA) and Associate in Science (AS) transfers, but those students admitted with the AS degree will need to complete the UCF General Education requirements before they can be actively considered for admission to this limited access program. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of current articulation activity.

**Note:** A total of 20 UCF undergraduate students are admitted each Fall semester for the regular Cardiopulmonary Sciences program. Registered Respiratory Therapists (RRT's) applying for this program's transfer option will be admitted **each semester** on a space available basis. These individuals have a separate application process and are not counted as part of the regular Cardiopulmonary Sciences class. See transfer notes below.

## Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Student should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Cardiopulmonary Sciences Program
- UCF Residency Requirement: 32 hours
- 25% of course work must be completed in residency at UCF
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

## 1. UCF General Education Program

A. Communication Foundations

(36 hrs)  
9 hrs

B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs
Select BSC 2010C	
Select CHM 1032 and lab	

## 2. Common Program Prerequisites (16 hrs)

MAC 1105	College Algebra	4 hrs
STA 2023	Statistical Methods I	GEP
BSC 2010C	Biology I	GEP
MCB 2004C	Microbiology	4 hrs
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology*	4 hrs
CHM 1032&L	Chemistry for Health Sciences or higher level (with lab)	GEP
PHY 2053C	College Physics or higher level (with lab)	4 hrs

\* see transfer notes

## 3. Core Requirements (75 hrs)

RET 3026C	Intro. to Respiratory Care	4 hrs
RET 3484C	Cardiopulmonary Physiology	4 hrs
HSC 4550	Pathophysiologic Mechanisms	3 hrs
HSC 4148	Medical Pharmacology I	2 hrs
HSC 3593	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
HSC 4149	Medical Pharmacology II	2 hrs
RET 4414C	Pulmonary Function Studies	4 hrs
RET 3174	Pediatric Respiratory Care	3 hrs
RET 3874	Clinical Practice I	5 hrs
RET 4284	Cardiopulmonary Diagnostics I	3 hrs
RET 4715	Neonatal Medicine	3 hrs
RET 4034	Problems in Patient Management.	3 hrs
RET 3875	Clinical Practice II	8 hrs
RET 4285	Cardiopulmonary Diagnostics II	3 hrs
RET 4934	Selected Topics in Respiratory Care	2 hrs
RET 4876	Clinical Practice III	8 hrs
RET 4536	Cardiopulmonary Rehabilitation	3 hrs

## 4. Upper Division Restricted Electives none

## 5. Departmental Exit Requirements (127 hrs)

Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation.

## 6. Electives none

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

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

## Graduation: none

## 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 32 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

## Total Semester Hours Required 127 hrs

**Related Programs:** Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate

**Related Minors:** Health Services Administration, Health Sciences, Molecular Biology & Microbiology, Biology, Chemistry

## Transfer Notes:

The UCF Cardiopulmonary Sciences program maintains an active transfer program open only to Registered Respiratory Therapists (RRT) and registry eligible respiratory therapists (new respiratory care graduates from an accredited respiratory care program). This pro-

gram allows working respiratory care professionals to attend UCF and gain a baccalaureate degree in Cardiopulmonary Sciences. To facilitate this process transfer-credit by examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardiopulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This may be demonstrated by successful completion of the two part registry examination given by the National Board for Respiratory Care (NBRC). Only graduates of an accredited institution and program are eligible for the NBRC credentials. Students who successfully complete these requirements will have validated the knowledge and clinical competencies and will be awarded credit in their final semester with grades of "S" recorded in their transcripts.

#### Community College Equivalents

College Algebra (MAC 1105) <i>or</i> (higher level)	3 hrs
Statistics (STA 2023) <i>or</i> (higher level)	3 hrs
College Physics I (PHY 1007/L) <i>or</i> (PHY 3004/L) <i>or</i> higher level with labs	4 hrs
General Chemistry with Lab (CHM 1031/L) <i>or</i> (higher level)	4 hrs
Biology I with Lab (BSC 1005/L) <i>or</i> (higher level)	4 hrs
General Microbiology (MCB 2010C) <i>or</i> (MCB 2004C) <i>or</i> (MCB 2020/L) <i>or</i> (PHA 2751)	4 hrs
Human Anatomy and Physiology I & II (BSC 2093C and 2094C) <i>or</i> (BSC X085 and X086 replaces Anatomy and Physiology courses (ZOO 3733C and PCB 3703C)	8 hrs

#### Tentative Course Schedule for Entering Freshmen

##### Freshman Year

<b>Fall</b>	<b>16</b>	<b>Spring</b>	<b>16</b>
ENC 1101	3	ENC 1102	3
CHM 1032 and lab	3/1	MCB 2004C	4
BSC 2010C	4	MAC 1105	3
PSY 2012 <i>or</i>	3	EUH 2000 <i>or</i> HUM 2210	3
ANT 2000 <i>or</i> SYG 2000		<i>or</i> AMH 2010	
HSC 2000	2	MAC 1114	3

##### Sophomore Year

<b>Fall</b>	<b>14</b>	<b>Spring</b>	<b>13</b>
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1600	3
EUH 2001 <i>or</i> HUM 2230 <i>or</i> AMH 2020	3	ECO 2013 <i>or</i> POS 2041	3
STA 2023	3	One course: ARH 2050	3
		ARH 2051, MUL 2010, THE1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	

##### Junior Year

<b>Fall</b>	<b>16</b>	<b>Spring</b>	<b>14</b>
RET 3026C	4	RET 4503	3
HSC 3593	3	RET 4244	3
HSC 4550	3	RET 3174	3
HSC 4148	2	RET 3483	3
RET 3484c	4	HSC 4149	2

##### Summer

	<b>12</b>
RET 4414C	4
RET 3264C	3
RET 3874	5

##### Senior Year

<b>Fall</b>	<b>17</b>	<b>Spring</b>	<b>16</b>
RET 4284	3	RET 4285	3
RET 3875	8	RET 4876	8
RET 4715	3	RET 4934	2
RET 4034	3	RET 4536	3

#### Minor

none

#### Accreditation

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

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

## CHEMISTRY (B.S.)

College of Sciences

Department of Chemistry

CH 117, 407-823-2246

<http://www.cas.ucf.edu/chemistry>

E-mail: [chemistry@ucf.edu](mailto:chemistry@ucf.edu)

Contact: Cherie Geiger

#### Admission Requirements

none

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

#### 1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations	
1. Select ENC 1101 and ENC 1102	6 hrs
2. Prefer SPC 1016	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311	4 hrs
2. Prefer STA 1060C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select PHY 2048 & L (PR:MAC 2311)	4 hrs
2. Select BSC 2010C	4 hrs

#### 2. Common Program Prerequisites (22 hrs)

CHM 2045C**	Chem Fund I	4 hrs
CHM 2046 & L	Chem Fund II & lab	4 hrs
CHM 2210	Organic Chem. I	3 hrs
CHM 2211	Organic Chem. II	3 hrs
MAC 2311	Calculus w/ Anal Geometry I	GEP
MAC 2312	Calculus w/ Anal Geometry II	4 hrs
PHY 2048 & L*	Physics Engr. & Sci. I & Lab	GEP
PHY 2049 & L*	Physics Engr. & Sci. II & Lab	4 hrs

\*See Transfer Notes for possible substitutes

\*\*CHM 2040 plus CHM 2041 can substitute for CHM 2045C

#### 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 3120 & L	Analytical Chemistry & Lab	4 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	4 hrs
CHM 4930	Chemistry Seminar	1 hrs
PHY 2048 & L	Physics Engr. & Sci. I & Lab	CPP
PHY 2049 & L	Physics Engr. & Sci. II & Lab	CPP
BCH 4053	Biochemistry I	3 hrs
BSC 2010C	Biology I	GEP
Select one of the following		GEP
STA 1060C	Statistics Using Excel	
STA 2023	Statistical Methods I	
CGS 1060C	Intro to Computer Science	

\* See Transfer Notes for possible substitutes

#### 4. Upper Division Restricted Electives (6 hrs)

BCH 4054	Biochemistry II	3 hrs
CHM 5225	Advanced Organic Chem I	3 hrs
CHM 4220	Organic Chem III	3 hrs
CHM 5235	Applied Molec Spectroscopy	3 hrs
CHM 5580	Advanced Physical Chem	3 hrs
CHM 5450	Polymer Chemistry	3 hrs
CHM 5451C	Techniques in Polymer Chemistry	3 hrs
CHS 4200	Concepts in Industrial Chem	3 hrs
CHS 4615	Environmental Chem	3 hrs

## UCF Degree Programs

### 5. Directed Electives

(3 hrs)

Course will be selected with the aid of a departmental advisor and approved in advance by the department chair. Course will be selected from the physical, biological, mathematical sciences and/or related disciplines and normally will be at the 3000/4000 level. Co-op courses cannot be used in the major.

### 6. Departmental Exit Requirements

- Complete a minimum of 24 Chemistry credits at UCF
- Achieve at least a "C" GPA (2.0) in all UCF Chemistry courses and an overall 2.0 GPA in all Chemistry courses used to satisfy this requirement
- Grades earned in CHM 4914C, CHM 4930 and CHM 4912 will not be applied in the determination of the Chemistry GPA
- Students are required to take a nationally normed test in chemistry during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring. The student must achieve a satisfactory score on the exam.
- Students are required to submit an undergraduate research report for evaluation no later than the date posted by the Department in the semester they intend to graduate. The report must meet or exceed departmental requirements established for the report.
- Computer Competency met by STA 1060C, a computer science course, or by departmental assessment
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

### 7. Foreign Language Requirements

(0-8 hrs)

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

**Graduation:**

none

### 8. Electives

(variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed.  
**Note:** Chemistry majors may count MAC 2313, CHM 2211, and PHY 2049 as upper division credit.
- 30 of the last 36 hours of course work must be completed in 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:** Forensic Science, Molecular and, Microbiology, Science Education

**Related Minors:** Chemistry, Molecular and Microbiology

#### Transfer Notes:

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

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

- CHM 2045C\*: may use CHM 1040 plus CHM 1041
- PHY 2048 & Lab: may use PHY 2053C. However PHY 2048 & Lab is required and will still have to be taken.
- PHY 2049\* & Lab: may use PHY 2054C. However PHY 2049 & Lab is required and will still have to be taken
- Physics: CPP requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics courses and Organic Chemistry classes are required for graduation.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Summer

Chem test See catalog 0  
Math test See catalog 0

#### Freshman Year

Fall		Spring	
BSC 2010C Biology I	4	ENC 1102 Composition II	3
ENC 1101 Composition I	3	<i>SYG 2000* req# 1D2-GEP</i>	3
MAC 2311 Calc Anal Geo I	4	CHM 2046 Chemistry Fund II	3
CHM 2045C Chemistry Fund I	4	CHM 2046L Chemistry Fund L	1
		MAC 2312 Calc Anal Geo II	4

#### Sophomore Year

Fall		Spring	
PHY 2048 Phy for Eng Sci I	3	<i>PHI 2010* req# 1B3-GEP</i>	3
PHY 2048L Phy L Eng Sci I	1	CHM 2211 Organic Chm II	3
STA 1060C Stat Using Excel	3	PHY 2049 Phy for Eng Sci II	3
CHM 2210 Organic Chm I	3	PHY 2049L Phy L Eng Sci II	1
MAC 2313 Calc Anal Geo III	4	CHM 2211L Organic L Tech I	2
		<i>Elective* Check restrictions</i>	2

#### Junior Year

Fall		Spring	
<i>POS 2041* req# 1D1-GEP</i>	3	CHM 3411 Physical Chm II	3
BCH 4053 Biochemistry I	3	CHM 3411L Physical Chm L	2
CHM 31020 Analy Chemistry	5	CHM 4130C Adv Analy L Tech	4
CHM 3212L Organic L Tech II	2	CHM 4610 Inorg Chemistry	3
CHM 3410 Physical Chm I	4	<i>BCH 4054* req# 4-ResEI</i>	3

#### Senior Year

Fall		Spring	
<i>HUM 2210* req# 1B1-GEP</i>	3	<i>MUL 2010* req# 1B2-GEP</i>	3
CHM 4610L Inorg Chemistry L	2	SPC 1016 Tech Presentations	3
CHM 4914C undergrad Res Meth	1	CHM 4912 Research	3
<i>CHM 4220* req# 4-ResEI</i>	3	CHM 4930 Undergrad Chm Sem	1
<i>PCB 3063* req# 5-DirEI</i>	3	<i>Elective* Check restrictions</i>	3
<i>Elective* Check restrictions</i>	3	<i>Elective* Check restrictions</i>	3

## CINEMA STUDIES TRACK in FILM

See Film - Cinema Studies Track

## 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>**

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,  
E-Mail: [cpohl@mail.ucf.edu](mailto:cpohl@mail.ucf.edu)

Associate Chair: *Shiou-San Kuo, Ph.D., P.E., E-Mail:  
[aoloufakuo@mail.ucf.edu](mailto:aoloufakuo@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 (36+2 hrs)

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

- A. Communication Foundations 9 hrs
  - 1. ENC 1101 & ENC 1102
  - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
  - 1. Select two courses from Historical Foundations
  - 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120
- C. Mathematical Foundations 7 hrs
  - 1. Select MAC 2311 (PR: MAC 1114)
  - 2. Select STA 3032 (PR: MAC 2312)
- D. Social Foundations (3 hrs)
  - 1. Prefer ECO 2013 *or* ECO 2023.
  - 2. ANT 2000, PSY 2012, *or* SYG 2000.
- E. Science Foundations 6 hrs
  - 1. Select PHY 2048/48L (PR: MAC 2311).
  - 2. Prefer GEO 1200

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L 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 with Analytic Geometry I	4 hrs
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities or Social Sciences		GEP

## 3. Courses Required for the Major (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 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engineering	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
ENV 3001	Intro to Environmental Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
CEG 4101C	Geotechnical Engineering I	4 hrs
CES 4100C	Structural Analysis I	4 hrs
CES 4605	Steel Structures <i>or</i>	
CES 4702	Reinforced Concrete Structures	3 hrs
CWR 3201	Engineering Fluid Mechanics	3 hrs
CWR 4101C	Hydrology	3 hrs
CWR 4203C	Hydraulics	3 hrs
ENV 4561	Environment Engrng-Process Design	4 hrs
SUR 2101C	Surveying	3 hrs
TTE 4004	Transportation Engineering	4 hrs

## 4. Approved Technical Electives (3 hrs)

Technical electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

## 5. Departmental Graduation Requirements (6 hrs)

- Approved CE Project Design Course I 3 hrs
- Approved CE Project Design Course II 3 hrs
- Civil engineering students must take the 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, Engineering Leadership & Management.

### Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

## Tentative Course Schedule for Entering Freshmen

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

## Civil Engineering - 128 semester hours required

### FIRST YEAR

<b>Fall</b>	<b>14 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*MAC 2311 Calc w/Analy Geo I	4	*MAC 2312 Calc w/Analy Geo II	4
*SPC 1016 Tech Presentations	3	*PHY 2048/L Phys Engr I w/lab	4
*ECO 2013 Macroeconomics <i>or</i>	3	*ANT/PSY/SYG <i>or</i>	3
ECO 2023 Microeconomics		*GEO GLY/BSC	
EGN 1006C Intro To Eng Prof	1	EGN 1007C Eng Con & Meth	1

### SECOND YEAR

<b>Fall</b>	<b>16 hrs<sup>1</sup></b>	<b>Spring</b>	<b>16 hrs<sup>1</sup></b>
*MAC 2313 Calc w/Analy Geo III	4	*MAP 2302 Diff Equations	3
*CHM 2045C/L Chem Funds I	4	*CHM 2046 Chemistry Funds II	3
*HUM/AMH/EUH - I	3	*PHY 2049/L Phys Engr II w/lab	4
EGN 3310 Engr Anal - Statics	3	*HUM/AMH/EUH - II	3
EGN 3613 Eng Econ Anal	2	EGN 3321 Engr Anal-Dynamic	3

### Summer

<b>9 hrs</b>	
STA 3032 Prob/Stats for Engrs	3
EGN 3331 Mech of Materials	3
ENV 3001 Intro to Environ Eng	3

### THIRD YEAR

<b>Fall</b>	<b>16 hrs</b>	<b>Spring</b>	<b>16 hrs<sup>1</sup></b>
CWR 3201 Eng Fluid Mechanics	3	CWR 4101C Hydrology	3
CCE 4003 Intro to Const Indus	3	CWR 4203C Hydraulics	3
EGN 3343 Thermodynamics	3	EGN 3373 Prin Elec Eng	3
CES 4100C Structural Analysis I	4	*Cultural/Historical Elective	3
*SUR 2101C Surveying	3	TTE 4004 Transportation Eng	4

### FOURTH YEAR

<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>12 hrs</b>
ENV 4561 Env Eng-Proc Desgn	4	Approved Project Design Course	3
CEG 4101C Geotechnical Engr	4	CES 4702 Reinfrcd Concrte Strctrs	3
CES 4605 Steel Structures	3	<i>or</i> Technical Elective	
<i>or</i> Technical Elective		EGN 3365 Str. & Prop Matts	3
Approved Project Design Course	3	*ANT/PSY/SYG <i>or</i> *GEO/GLY/BSC	3

# UCF Degree Programs

## Notes:

1. Courses marked with an asterisk (\*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour for each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

## BS to PhD Program

The Civil Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

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

**College of Engineering and Computer Science  
Civil & Environmental Engineering Department (CEE),  
ENG2 211, 407-823 2841, Fax: 407-823-3315,  
<http://www.cee.ucf.edu>**

*Undergraduate Coordinator and Academic Advisor:* Carol Ann Pohl,  
E-mail: cpohl@mail.ucf.edu

*Construction Program Director:* Amr A. Oloufa, Ph.D., P.E. 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 (36+2 hrs)

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

- A. Communication Foundations 9 hrs
  - 1. ENC 1101 & ENC 1102
  - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
  - 1. Select two courses from Historical Foundations
  - 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120
- C. Mathematical Foundations 7 hrs
  - 1. Select MAC 2311 (PR: MAC 1114).
  - 2. Select STA 3032 (PR: MAC 2312)
- D. Social Foundations 6 hrs
  - 1. Prefer ECO 2013 or ECO 2023.
  - 2. ANT 2000, PSY 2012, or SYG 2000.
- E. Science Foundations 7 hrs
  - 1. Select PHY 2048/48L (PR: MAC 2311)
  - 2. Prefer GEO 1200

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L 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 3032	Probability & Statistics for Engineers	GEP
CCE 4813	Mech & Elec Systems for Buildings	4 hrs
CCE 4402	Construction Equip & Productivity	3 hrs
EGN 3365	Struc & Prop of Materials	3 hrs
CCE 4004	Construction Methods	3 hrs
CCE 4034	Construction Estimating & Scheduling	3 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
CEG 4101C	Geotechnical Engineering I	4 hrs
CES 4100C	Structural Analysis I	4 hrs
CES 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 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, Engineering Leadership & Management

**Transfer Notes:**

- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

**Tentative Course Schedule for Entering Freshmen**

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

**Civil Engineering - Construction Engineering Option**

**128 semester hours required**

**FIRST YEAR**

<b>Fall</b>	<b>14 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*MAC 2311 Calc w/Analy Geo I	4	*MAC 2312 Calc w/Analy Geo II	4
*SPC 1016 Tech Presentations	3	*PHY 2048/L Phys Engr I w/lab	4
*ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3	*ANT/PSY/SYG or *GEO GLY/BSC	3
EGN 1006C Intro To Eng Prof	1	EGN 1007C Eng Con & Meth	1

**SECOND YEAR**

<b>Fall</b>	<b>16 hrs<sup>1</sup></b>	<b>Spring</b>	<b>16 hrs<sup>1</sup></b>
*MAC 2313 Calc w/Analy Geo III	4	*MAP 2302 Diff Equations	3
*CHM 2045C/L Chem Funds I	4	*CHM 2046 Chemistry Funds II	3
*HUM/AMH/EUH - I	3	*PHY 2049/L Phys Eng II w/lab	4
EGN 3310 Engr Anal - Statics	3	*HUM/AMH/EUH - II	3
EGN 3613 Eng Econ Anal	2	EGN 3331 Mech of Materials	3

**Summer** 9 hrs<sup>1</sup>

*ANT/PSY/SYG or *GEO/GLY/BSC	3
STA 3032 Prob/Stats Engineers	3
ENV 3001 Intro to Environ Eng	3

**THIRD YEAR**

<b>Fall</b>	<b>16 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
EGN 3321 Engr Anal-Dynamics	3	Engineering Science Elective <sup>2</sup>	3
CCE 4003 Intro Constr. Industry	3	CES 4702 Reinforced Concrete Structures <sup>3</sup>	3
CES 4100C Structural Analysis I	4	CCE 4004 Construct Methods	3
*SUR 2101C Surveying	3	*Cultural/Historical Elective	3
EGN 3365 Struc & Prop of Mat	3	CWR 3201 Eng Fluid Mechanics	3

**FOURTH YEAR**

<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
TTE 4004 Transportation Eng	4	CCE 4810C Constr Design Project	4
CCE 4034 Construc Est & Sched	3	CCE 4402 Constr Equip & Prod	3
CEG 4101C Geotechnical Engr	4	CEG 4801C Geotech Engr Design	3
CCE 4813 Mech & Elec Bldgs	4	ACG 2071 Prin Mgrl Accounting	3

**Notes:**

1. Courses marked with an asterisk (\*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Engineering Science Elective may be satisfied by taking either EGN 3343 or EGN 3373, other courses must be approved by Program Director.
3. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.
4. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

**COMMUNICATION SCIENCES AND DISORDERS (B.A., B.S.)**

**College of Health and Public Affairs, HPA2 101**

<http://www.cohpa.ucf.edu/comdis/>

Chair: R. Jane Lieberman, Phone: 407-823-4798

Undergraduate Coordinator: Jamie B. Schwartz

E-mail: jschwartz@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 public Community College, and usually should be completed in the first 60 hours
- Students must earn at least a "C-" (1.75) in each required course, restricted elective, and B.A./B.S. elective.
- The courses designated in section 1 (General Education) should usually be completed in the first 60 hours

**1. UCF General Education Program (36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - Prefer MGF 1106 Finite Math
  - Select STA 2023
- D. Social Foundations 6 hrs
  - Select PSY 2012 General Psychology
  - Select one of the listed choices (ECO 2013, ECO 2023), or (POS 2041)
- E. Science Foundations 6 hrs
  - Prefer BSC 1005 Gen Bio
  - Select one biological and one physical science

**2. Common Program Prerequisites** none

**3. Core Requirements (60 hrs)**

DEP 2004	Developmental Psychology	3 hrs
SPA 3471	Communication Disorders in Literature and Media	3 hrs
SPA 3101	Physiological Bases of Speech and Hearing	3 hrs
SPA 3112	Basic Phonetics	3 hrs
SPA 3112L	Basic Phonetics Lab	1 hr
LIN 3716	Language Development: Birth through 8yrs	3 hrs
SPA 3011	Speech Science I: Speech Production	3 hrs
SPA 3011L	Speech Production Lab	1 hr
LIN 3717	Language Development: 9 through 18 yrs	3 hrs
SPA 3104	Neural Bases of Communication	3 hrs
SPA 3123	Speech Science II: Speech Perception	3 hrs
SPA 3123L	Speech Perception Lab	1 hr
SPA 4476	Speech Disorders Across the Lifespan	3 hrs
SPA 4032	Audiology	3 hrs
SPA 4478	Multicultural Aspects: Communications Disorders and Differences	3 hrs
LIN 4711	Language Analysis	3 hrs
LIN 4711L	Language Analysis Lab	1 hr
SPA 4400	Language Disorders Across the Lifespan	3 hrs
SPA 4321	Aural Habilitation-Rehabilitation	3 hrs
EAB 3703	Principles of Behavior Modification or	3 hrs
EEX 4601	Introduction to Behavior Management or	
EEC 4604	Guidance of Young Children or	
EDF 3307	Learning Environments and Guidance for Young Children or	
SPA 3472	Guidance of Young Children w/Communicative Disorders	
SPA 4550C	Clinical Methods in Communicative Disorders	5 hrs
SPA 4052L*	Undergraduate Clinical Practicum or	3 hrs
SPA 4948	Community Internship	

**4. Statistics Requirement (6 hrs)**

Students have two options for completing this requirement:

<b>Option 1:</b>		
STA 2023	Statistical Methods I GEP and	3 hrs

## UCF Degree Programs

STA 4163	Statistical Methods II <i>or</i>	3 hrs
<b>Option 2:</b>		
STA 2014C	Principles of Statistics (GEP) <i>or</i>	6 hrs
STA 2023	Statistical Methods I <i>and</i>	3 hrs
SPA 4XXX	Res. Methods in Comm. Sciences & Disorders	3 hrs

### 5. Upper Division Restricted Electives (6 hrs)

An additional six credit hours of upper division course work in Communicative Disorders selected in consultation with the academic advisor.

### 6. Electives (6 hrs min)

B.A./B.S. Option.

- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.
- Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

### 7. Foreign Language Requirements

**Admissions:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. ASL (American Sign Language) can be used to fulfill the foreign language admission requirement.

**Graduation:** Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL I, II, and III can be used to fulfill this requirement.

### 8. Departmental Exit Requirements

Students must achieve a minimum grade of "C-" (1.75) in all required courses, restricted electives, and B.A./B.S. electives in the Department.

Students must also earn an overall minimum of 2.0 GPA in the courses used to satisfy the major.

### 9. University Minimum Exit Requirements (120 hrs)

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

#### Total Semester Hours Required 120 hours

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

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

#### Transfer Notes:

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

### Tentative Course Schedule for Entering Freshmen

Freshman Year		16 hrs	Spring	15 hrs
Fall				
	ENC 1101	3	ENC 1102	3
	PSY 2012	3	PSC 1121 <i>or</i> PHY 2053C	3
	BSC 1005	4	ECO 2013 <i>or</i> ECO 2023	3
	One Course: ARH 2050 <i>or</i>	3	<i>or</i> POS 2041	
	ARH 2051, <i>or</i> MUL 2010, <i>or</i>		EUH 2000 <i>or</i> HUM 2210	3
	THE 2000, <i>or</i> REL 2300, <i>or</i>		<i>or</i> AMH 2010	
	PHI 2010, <i>or</i> LIT 2110, <i>or</i> LIT 2120		DEP 2004	3
	Elective	3		
Sophomore Year				
Fall		15/16 hrs	Spring	16/17 hrs
	SPC 1600	3	SPA 3112 and SPA 3112L	4
	EUH 2001 <i>or</i> HUM 2230	3	Restricted Elective	3

<i>or</i> AMH 2020		EAB 3703 <i>or</i> EDF 3307	3
MGF 1106 <i>or</i> MAC 1105	3	<i>or</i> EEX 4601	
		<i>or</i> EEC 4604 <i>or</i> SPA 3472	
Foreign Lang. I (B.A.)	3/4	STA 2023	3
<i>or</i> Health Science (B.S.)		Foreign Lang II (B.A.)	3/4
SPA 3471	3	<i>or</i> Health Science (B.S.)	

### Junior Year

Fall		13 hrs	Spring	16 hrs
LIN 3716		3	LIN 3717	3
SPA 3011 and SPA 3011L	4		SPA 3123 and SPA 3123L	4
SPA 3101	3		SPA 4476	3
Elective <i>or</i> STA 2023	3		SPA 3104	3
			Elective <i>or</i> STA 4163	3

### Senior Year

Fall		15 hrs	Spring	15 hrs
SPA 4032		3	SPA 4321	3
SPA 4400		3	SPA 4052L* <i>or</i> SPA 4948	3
LIN 4711 and 4711L	4		Restricted Elective	3
SPA 4550C	5		HSA 4701 <i>or</i> Elective	3
			SPA 4478	3

\* Students must apply and be selected to enroll in SPA 4052L.

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

## COMPUTER ENGINEERING (B.S.Cp.E.)

College of Engineering and Computer Science  
Department School of Electrical and Computer  
Engineering & Computer Science

Harris Corp Engineering Ctr., Rm 245

407-823-2786, Fax: 407-823-5835,

<http://www.cpe.ucf.edu>

Brian Petrasko., E-Mail: petrasko@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 (36+2 hrs)

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

- Communication Foundations 9 hrs
  - ENC 1101 & ENC 1102
  - Prefer SPC 1016
- Cultural and Historical Foundations 9 hrs
  - Select two courses from Historical Foundations
  - ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120
- Mathematical Foundations 7 hrs
  - Select MAC 2311 (PR: MAC 1114).
  - Select STA 3032 (PR: MAC 2312)

- D. Social Foundations 6 hrs  
 1. Prefer ECO 2013 or ECO 2023.  
 2. ANT 2000, PSY 2012, or SYG 2000.
- E. Science Foundations 7 hrs  
 1. Select PHY 2048/2048L (PR: MAC 2311)  
 2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

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

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

**Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities or Social Sciences		GEP

## 3. Courses Required for the Engineering Core (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics <i>or</i>	
EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs
EGN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists III	3 hrs

## 4. Courses Required for the Major (45 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4767C	Computer System Design I	4 hrs
EEL 4768C	Computer System Design II	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
EEL 4851C	Engineering Data Structures	4 hrs
EEL 4882	Engineering System Software	3 hrs
EEL 4884C	Engineering Software Design	4 hrs

## 5. Approved 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.

## 6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

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

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

**Graduation:** none

## 8. University Minimum Graduation Requirements

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

**Total Semester Hours Required:** 128 hrs

**Related Programs:** Computer Science, Electrical Engineering, Electrical Engineering Technology (Computer Systems Concentration).

**Related Minors:** Information Technology, Computer Science, Intelligent Robotic Systems, Engineering Leadership & Management.

### Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

## Tentative Course Schedule for Entering Freshmen

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

## Computer Engineering - 128 semester hours required

### FIRST YEAR

<b>Fall</b>	<b>14 hrs<sup>1,3</sup></b>	<b>Spring</b>	<b>12 hrs<sup>1,3</sup></b>
*Historical Foundations 1a	3	*ENC 1102 English Comp II	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 2048/L Phys for Eng/Sci I	4
*MAC 2311 Calc with Analytic Geo I	4		

### Summer 10 hrs<sup>1</sup>

*Social Foundations 1	3
*Science Foundations 2	3
*MAC 2313 Calc with Analytic Geo III	4

### SECOND YEAR

<b>Fall</b>	<b>17 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
*MAP 2302 Diff Equations	3	EGN 3321 Engr Anal-Dynamics	
*PHY 2049 Phys Engr/Sci II	3	<i>or</i>	
*PHY 2049L Lab En/Sci II	1	EGN 3358 Ther-Flds-Ht Tran	3
CHS 1440 Chem for Engr	4	*PHY 3101 Physics for Engr III	3
EGN 3310 Engr Anal-Statics	3	EEL 3342C Intro Dig Circ/Sys	3
EGN 3420 Eng Analysis2	3	EEL 3801C Intro Cmptr Engr2	3
		EEL 3004 Electrical Networks	3

### Summer 6 hrs<sup>1</sup>

*ECO 2013 Macroeconomics <i>or</i>	3
ECO 2023 Microeconomics	
*HistoricalCult & Hist Foundations 1b	3

### THIRD YEAR

<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>14 hrs</b>
EEL 3306 Semicond'r 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'n I	4
EEL 3123C Networks and Systems	4	EEL 4882 Engrng Sys S/W	3

### FOURTH YEAR

<b>Fall</b>	<b>14 hrs<sup>3</sup></b>	<b>Spring</b>	<b>12 hrs<sup>1</sup></b>
EEL 4768C Cmp Sys Dsgn II	4	*Cultural & Hist Foundations 2	3
EEL 4884C Engr S/W Dsgn	4	Approved Technical Elective	3
EEL 4914 Senior Design I	3	EEL 4915L Senior Design II	3
Approved Technical Elective	3	EEL 4781 Cmp CommNetworks	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

# UCF Degree Programs

- on the 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.

## COMPUTER ENGINEERING - SOFTWARE ENGINEERING CONCENTRATION (B.S.Cp.E.)

**College of Engineering and Computer Science  
Department School of Electrical and Computer Engineering & Computer Science,  
Harris Corp Engineering Ctr, Rm 245, 407-823-2549,  
407-823-2786, Fax: 407-823-5835,  
<http://www.cpe.ucf.edu>**

Brian Petrasko., E-Mail: petrasko@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 (36+2 hrs)

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

- |  |       |
|--|-------|
| A. Communication Foundations   | 9 hrs |
| 1. ENC 1101 & ENC 1102   |       |
| 2. Prefer SPC 1016   |       |
| B. Cultural and Historical Foundations   | 9 hrs |
| 1. Select two courses from Historical Foundations  |       |
| 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120 |       |
| C. Mathematical Foundations  | 7 hrs |
| 1. Select MAC 2311 (PR: MAC 1114).   |       |
| 2. Select STA 3032 (PR: MAC 2312)  |       |
| D. Social Foundations  | 6 hrs |
| 1. Prefer ECO 2013 or ECO 2023   |       |
| 2. ANT 2000, PSY 2012, or SYG 2000   |       |
| E. Science Foundations   | 7 hrs |
| 1. Select PHY 2048/48L (PR: MAC 2311)  |       |
| 2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310                               |       |

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

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

**Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP

### 3. Courses Required for the Engineering Core (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do **not** satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics <i>or</i>	
EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs
EGN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists II	3 hrs

### 4. Courses Required for the Major (45 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4767C	Computer System Design I	4 hrs
EEL 4768C	Computer System Design II	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
EEL 4851C	Engineering Data Structures	4 hrs
EEL 4882	Engineering System Software	3 hrs
EEL 4884C	Engineering Software Design	4 hrs

### 5. Approved Software Technical Electives (6 hrs)

Technical electives are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

### 6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

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

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

**Graduation:** none

### 8. University Minimum Graduation Requirements

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

**Total Semester Hours Required:** 128 hrs

**Related Programs:** Computer Science, Electrical Engineering, Electrical Engineering Technology (Computer Systems Concentration).

**Related Minors:** Information Technology, Computer Science, Intelligent Robotic Systems, Engineering Leadership & Management.

### 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

### FIRST YEAR

<b>Fall</b>	<b>14 hrs<sup>1,2</sup></b>	<b>Spring</b>	<b>12 hrs<sup>1,2</sup></b>
*Cultural Foundations	3	*ENC 1102 English Comp II	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 2048/L Phys for Eng/Sci I	4
*MAC 2311 Calc with Analytic Geo I	4		

### Summer

	<b>10 hrs<sup>1</sup></b>
*Historical Foundations 1	3
*Science Foundations 2	3
*MAC 2313 Calc with Analytic Geo III	4

### SECOND YEAR

<b>Fall</b>	<b>17 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
*MAP 2302 Diff Equations	3	EGN 3321 Engr Anal-Dynamics	
*PHY 2049 Phys Engr/Sci II	3	or	
*PHY 2049L Lab En/Sci II	1	EGN 3358 Ther-Flds-Ht Tran	3
CHS 1440 Chem for Engr	4	*PHY 3101 Physics for Engr III	3
EGN 3310 Engr Anal-Statics	3	EGN 3420 Eng Analysis2	3
EEL 3342C Intro Dig Circ/ Sys	3	EEL 3801C Intro Cmpt Engr2	3
		EEL 3004 Electrical Networks	3

### Summer

	<b>6 hrs<sup>1</sup></b>
*ECO 2013 Macroeconomics or	3
ECO 2023 Microeconomics	
*Historical Foundations 1b	3

### THIRD YEAR

<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>14 hrs</b>
EEL 3306 Semicond'r 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'n I	4
EEL 3123C Networks and Systems	4	EEL 4882 Engrng Sys S/W	3

### FOURTH YEAR

<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>12 hrs<sup>1</sup></b>
EEL 4768C Cmp Sys Dsgn II	4	*Social Foundations 1	3
EEL 4884C Engr S/W Dsgn	4	CEN 4020 Comp Des S/W Engr	3
EEL 4914 Senior Design I	3	or EEL 5771C Eng AplComp Grph	
Approved software technical elective	3	EEL 4915L Senior Design II	3
		EEL 4781 Comp Comm Ntwks	3

### Notes:

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

## COMPUTER SCIENCE (B.S.)

**College of Engineering and Computer Science**  
**School of Electrical Engineering & Computer Science**  
**Harris Corp Engineering Ctr, Rm 245**  
<http://www.cs.ucf.edu>

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

David Workman, 407-823-2341

### Foundation Examination

Prior to taking courses beyond basic core requirements, students must pass a foundation exam (COT 3960) which covers problem solving techniques, algorithms, abstraction, proofs, and programming language skills. Tests will be administered each semester. Refer to the computer science website for more information about the foundation exam.

### Degree Requirements

- Students must earn at least a 2.0 in each course in 2-6
- Students are required to consult with a departmental advisor and file a plan of study after passing the foundation exam

- Students must meet a Residency Requirement of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from Computer Science at UCF
- 18 of the 24 Residency hours must be at the 4000-5000 level

### 1. UCF General Education Program

**(36+3 hrs)**

A. Communication Foundations	9 hrs
1. ENC 1101, & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114)	4 hrs
2. Select STA 2023	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2048 & L ((PR:MAC 2311)	
2. Prefer BSC 2010C & L	

### 2. Common Program Prerequisites

**(15 hrs)**

COP 3223	C Programming	3 hrs
MAC 2311	Calculus with Analytic Geom I	GEP
MAC 2312	Calculus with Analytic Geom II	4 hrs
PHY 2048 & L	Physics for Engr. & Sci. I & Lab	GEP
PHY 2049 & L	Physics for Engr. & Sci. II & Lab	4 hrs
Select two science courses designed for majors		
Examples of acceptable science courses include:		
BSC 2010C	Biology I	
BSC 2011C	Biology II	
CHM 2045C	Chem. Fund I	
CHM 2046	Chem. Fund II	

### 3. Basic Core requirements

**(26 hrs)**

COP 3330	Intro to OO Programming	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
STA 2023	Statistical Methods I	GEP
ENC 3241	Technical Report Writing	3 hrs
CDA 3103C	Computer Organization	4 hrs
COT 3100C	Intro to Discrete Structures	3 hrs
PHI 3626	Ethics in Science and Technology	3 hrs
COP 3402C	Systems Software	3 hrs
COT 3960	Foundation Exam (PR:COT 3100 & COP 3502)	0 hrs

### 4. Advanced Core

**(16 hrs)**

Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.		
COP 4331	Processes for OO Software Development	4 hrs
CDA 4150	Comp Architecture	3 hrs
COT 4210	Discrete Comp Structures	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs

### 5. Restricted Electives

**(18 hrs)**

- 4000-5000 level Computer Science courses that must include COT 4810 (Topics in Computer Science). Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internships or cooperative education credits are allowed. Approved IT courses offered by Computer Science may also be used toward this requirement (3 credits).
- 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.

### 6. School Exit Requirements

- Complete an exit survey
- Computer Competency met by completion of major

### 7. Foreign Language Requirements

**(0-4 hrs)**

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

**Graduation:** Proficiency exam in a second language, one semesters of college level Foreign Language, or 3 credits of multicultural courses approved by Computer Science.

### 8. Electives

**(variable)**

Select primarily from upper level courses, with the student's advisor's approval. May be outside of the department.

# UCF Degree Programs

## 9. University Minimum Exit Requirements

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

**Total Semester Hours Required** **120 hrs**

**Related Programs:** Computer Engineering, Information Technology, Management Information Systems

**Related Minors and Certificates:** Information Technology, Computer Science, Intelligent Robotic Systems, Secure Computing and Networks

### Transfer Notes:

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

### FIRST YEAR

Fall	12 hrs	Spring	14 hrs
ENC 1101 English Comp I	3	ENC 1102 English Comp II	3
SPC 1016 Tech Presentations	3	MAC 2311 Calc with Analy	4
COT 3100 Intro. Discrete Structures	3	COP 3502 Comp Science I	3
COP 3223 C Programming	3	CDA 3103C Comp Organization	4
		COT 3960 Foundation Exam	0

Summer	7 hrs
MAC 2312 Calc with Analy Geo II	4
COP 3330 Intro to OOP/Java	3

### SECOND YEAR

Fall	14 hrs	Spring	14 hrs
COP 3402 Systems Software	3	COP 4331 Processes for OO Dev	4
COP 3503C Comp Science II	4	ENC 3241 Tech Report Writing	3
PHY 2048 Physics for Sci w/lab	4	PHY 2049 Physics for Sci w/lab	4
Cultural Foundations	3	PHI 3626 Ethics in Sci & Tech	3

Summer	6 hrs
STA 2023 Statistical Methods	3
Social Foundations	3

### THIRD YEAR

Fall	13 hrs	Spring	13 hrs
CDA 4150 Computer Architecture	3	COP 4600 Operating System	3
COP 4020 Programming Langs	3	CHM 2045C Chemistry I	4
BSC 2010C Gen Biology I	4	Math/Stat Restricted Elective	3
Social Foundations	3	CS Elective	3

Summer	3 hrs
COT 4210 Discrete Structure II	3

### FOURTH YEAR

Fall	12 hrs	Spring	12 hrs
COT 4810 Topics in CS	3	CS Elective	3
CS Elective	3	Multi-Cultural Elective	3
Historical Foundations	3	Historical Foundations	3
Free Elective	3	Math/Stat Restricted Elective	3

## 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:* Dr. Mary Ann Eastep

E-mail: [cjadvice@mail.ucf.edu](mailto:cjadvice@mail.ucf.edu)

**Admission Requirements** none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog

- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Math	
Select CGS 1060C, STA 1060C, or STA 2014C	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites none

### 3. Core Requirements (18 hrs)

CCJ 3024 Criminal Justice System	3 hrs
CCJ 3014 Crime in America	3 hrs
CJL 3510 Prosecution and Adjudication	3 hrs
CJC 3010 Corrections and Penology	3 hrs
CJE 4014 Police and Society	3 hrs
CCJ 4701 Research Methods in Criminal Justice	3 hrs

### 4. Upper Division Restricted Electives (42 hrs)

- 27 additional semester hours of upper division criminal justice course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
- 15 additional semester hours of supporting courses to be selected from an approved list provided by the Department. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology. The supporting course requirements may also be met by completing a minor from another program approved by the Department with a minimum of 15 semester hours credit.

### 5. Upper Division Unrestricted Electives none

### 6. Departmental Exit Requirements (120 hrs)

Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

### 7. Foreign Language Requirements

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

**Graduation:** Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level. The foreign language credits may be used toward the 15 hour supporting course requirement.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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:** Legal Studies

**Related Minors:** Legal Studies, Public Administration, Psychology.

### Transfer Notes:

"D" (1.0) grades are not accepted.

### Tentative Course Schedule for Entering Freshmen

<b>Freshman Year*</b>			
<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
ENC 1101	3	ENC 1102	3
MGF 1106 or MAC 1105	3	CGS 1060C	3
PSY 2012 or SYG 2000 or ANT2000	3	PSC 1121 or CHM 1020	3
EUH 2000 or HUM 2210	3	PHI 2010 or MUL 2010	3
or AMH 2010, ARH 2050,		Elective	3
THE 2000, or REL 2300,			
PHI 2010, LIT 2110,			
LIT 2120			
PAF 2102	2		
<b>Sophomore Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
SPC 1600	3	CCJ 3024	3
EUH 2001 or HUM 2230 or	3	CCJ 3014	3
AMH 2020		CJ Elective	3
BSC 1005 or MCB1310 or	3	CJ Elective	3
GLY 1030 or PSC 1121 or		CJ Elective	3
ANT 2511			
Elective	3		
POS 2041 or ECO 2013	3		
<b>Junior Year</b>			
<b>Fall</b>	<b>15/16 hrs</b>	<b>Spring</b>	<b>15/16 hrs</b>
CJL 3510	3	CJE 4014	3
CJC 3010	3	CCJ 4701	3
CJ Elective	3	CJ Elective	3
Supporting Elective/Foreign Language	3	Supporting Elective/Foreign Lang.	3
CJ Elective	3	CJ Elective	3
<b>Senior Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>9/15 hrs</b>
CJ Elective	3	CCJ Internship or	3/6
CJ Elective	3	CJ Elective	
Supporting Elective	3	Supporting Elective	3
Elective	3	Elective (if necessary)	3
Elective	3	Elective (if necessary)	3

## CRIMINAL JUSTICE (B.S.)

### A.S. to B.S. Track

**Note:** For detailed information about this program, see description in the AS to BS Programs section

## DIGITAL MEDIA (B.A.)

### College of Arts and Humanities

### School of Film and Digital Media

<http://www.dm.ucf.edu>

**E-mail:** [digitalmedia@dm.ucf.edu](mailto:digitalmedia@dm.ucf.edu)

*Director of School:* Dr. Terry Frederick

*Head of Digital Media Division:* Dr. Clint Bowers

The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:

- Provide a solid foundation in techniques and theory in one focused area of competence.
- Provide a broad understanding of related disciplines including arts, humanities, and technology.
- Provide extended experience in working in multidisciplinary teams on realistic problems.

The program is administered through the College of Arts and Humanities. It recognizes that there are many combinations of courses which meet the needs of individual students. Two concentration areas; Visual Language and Digital Interactive Systems lead to a Bachelor of Arts degree.

**Note:** Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a computer. Contact Digital Media or see the website ([www.dm.ucf.edu](http://www.dm.ucf.edu)) for the minimum hardware and software specifications.

### Admission Requirements

none

### Degree Requirements

- UCF students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF
- Co-op or internship credits are not permitted in this major without

prior, written permission.

- Students should see an advisor prior to selecting this major, and at least annually thereafter.

### 1. UCF General Education Program

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
  - Take one course from 1.B.1 list 3 hrs
  - Select ARH 2050
  - If Digital Interactive Systems take ARH 2050 or MUL 2010 3 hrs
  - Take one course from either 1.B.1 or 1.B.2 3 hrs
- C. Mathematical Foundations 6 hrs
  - Select MAC 1105 College Algebra and Select COP 2500C Concepts in Computer Science
  - Note:** these two courses fulfill the math GEP
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

### 2. School of Film and Digital Media Common Core (15 hrs)

- DIG 3001\* Digital Media Principles 3 hrs
- FIL 1007 Foundations of Story 3 hrs
- FIL 1008 Cinematic Expression/Aesthetics 3 hrs
- FIL 2107 Script Analysis 3 hrs
- FIL 2224C Foundations of Production 3 hrs

### 3. Specialization. Choose one of the following 2 areas:

#### Visual Language (B.A.) (60 hrs)

This specialization concerns how to tell stories and communicate using the visual language of the moving image, animation, and cinematic visual effects.

#### 3A: Visual Language - Program Core: (16 hrs)

- ARH 2050 History of Western Art I GEP
- ART 2300C Drawing Fundamentals I 3 hrs
- ART 2301C Drawing Fundamentals II 3 hrs
- COP 2500C Concepts in Computer Science GEP
- DIG 3485 Visual Language of Moving Image 3 hrs
- DIG 3480C Computers as Medium 4 hrs
- DIG 3525 Digital Media Production I 3 hrs
- MAC 1105 College Algebra GEP

\* See transfer notes for possible substitutions.

#### 3B: Visual Language - Basic Concentration: (15 hrs)

**Note:** Admission to all courses after DIG 3485 is dependent on the student's achieving an 'A' or 'B' in DIG 3001 and an 'A' in the Core course DIG 3485- Visual Language of the Moving Image.

- DIG 3355 Artificial Environments & Effects 3 hrs
- DIG 3362 Artificial Characters 3 hrs
- DIG 3430 Visual Storytelling & Visual Develop 3 hrs
- DIG 3524 The Production Process 3 hrs
- DIG 4204 Generating and Manipulating Digital Imagery 3 hrs

#### 3C: Visual Language - Advanced Concentration: (26 hrs)

**Note:** Admission to the Advanced Concentration is dependent on a portfolio review by faculty.

- Choose ten seven of the following courses: 30 hrs
- DIG 4206C New Imagery in Motion Workshop 4 hrs
- DIG 4325C Look Modeling Workshop 4 hrs
- DIG 4326C Geometric Modeling Workshop 4 hrs
- DIG 4359C Artificial Environment & Effects Workshop 4 hrs
- DIG 4369C Artificial Characters Workshop 4 hrs
- DIG 4451C Visual Storytelling & Visual Dev Workshop 4 hrs
- DIG 4522L Digital Media Service 3 hrs
- DIG 4524L Digital Media Project I 3 hrs
- DIG 4526C Digital Media Production II 3 hrs
- IDS 4786C Production Software 3 hrs
- IDS 4703 Digital Media Project II 3 hrs

### Digital Interactive Systems (B.A.):

(60 hrs)

**Note:** Admission to all courses after DIG 3001 is dependent on the student's achieving an 'A' or 'B' in DIG 3001.

#### 3A: Digital Interactive Systems Program Core:

(21-22 hrs)

- COP 2500C Concepts in Computer Science GEP
- DIG 3480C Computers as Medium 4 hrs
- DIG 3485 Visual Language of the Moving Image 3 hrs
- DIG 3525 Digital Media Production I 3 hrs
- DIG 3821 Creative Digital Problem Solving 3 hrs
- DIG 3811 User Centered Design 3 hrs
- DIG 3XXX Information Management and Authorship 3 hrs
- DIG 3XXX Writing for Digital Media 3 hrs

# UCF Degree Programs

MAC 1105 College Algebra GEP

**3B: Digital Interactive Systems Basic Concentration:** (15 hrs)  
 DIG 3135C Digital Imagery 3 hrs  
 DIG 3286C Assembling Digital Media 3 hrs  
 DIG 3XXXXC Digital Media Audio 3 hrs  
 DIG 4716L Internet Interaction 3 hrs  
 DIG 4921C E-Commerce I 3 hrs  
 FIL 3625 Interactive Entertainment 3 hrs

**3C: Digital Interactive Systems Advanced Concentration:**  
*Select any seven of the following courses* (20 hrs)  
 DIG 3450C Interactive Performance I 3 hrs  
 DIG 3855 Converging Media 3 hrs  
 DIG 4324 Modeling for Real-time Systems II 3 hrs  
 DIG 4455C Interactive Performance II 3 hrs  
 DIG 4526C Digital Media Production II 3 hrs  
 DIG 4640 Autonomous Media 3 hrs  
 DIG 4641 Creative Digital Devices 3 hrs  
 DIG 4713C Game Design 3 hrs  
 DIG 4715C Game Engines 3 hrs  
 DIG 4780 Modeling for Real-time Graphics 3 hrs  
 DIG 4922 Media for E-Commerce II 3 hrs  
 EME 5050 Technology Integration 3 hrs  
 FIL 3297 Sound Design I 3 hrs  
 FIL 3625 Interactive Entertainment 3 hrs  
 FIL 4212C Sound Design II 3 hrs  
 IDS 3701C Internet Software Design 3 hrs  
 IDS 4703 Digital Media Project 2 3 hrs  
 DIG 5136C Interactive Media Design 3 hrs

Or - any 3000 or 4000 level courses included in another Digital Media Concentration or any other 3000 or 4000 level IDS/DIG Digital Media course.

**4. Capstone Experience** (4 hrs)  
 DIG 3035L Digital Media Workplaces 1 hr  
*and*  
 DIG 4522L Digital Media Service 3 hrs  
*or*  
 DIG 4523L Digital Media Project I 3 hrs

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

**BA requirements:**

**Admission:** Met by graduation requirement.

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**6. Electives** (variable)

Electives will consist of 3000 and 4000-level courses as approved by the student's advisor. These electives may include 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
- 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)

**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.

## EARLY CHILDHOOD EDUCATION (PRE-KINDERGARTEN - PRIMARY PK- 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 (until August 2006)

ED 206, 407-823-0045

E-mail: [ece@mail.ucf.edu](mailto:ece@mail.ucf.edu)

**Admission Requirements:**

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses
- Meet any special departmental requirements

**Degree Requirements:**

- Students should see their assigned advisor prior to registering for classes
- 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 3 hrs  
 ENC 1102 Composition II 3 hrs  
 Select SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundations\* (9 hrs)  
 Select AMH 2010 U.S. History 1492-1877 3 hrs  
 Select AMH 2020 U.S. History 1877-Present 3 hrs  
 Select PHI 2010 Introduction to Philosophy 3 hrs
- C. Mathematical Foundations\* (6 hrs)  
 Select MGF 1106 Finite Mathematics 3 hrs
- Select one:  
 STA 1060C Basic Statistics using MS Excel *or* 3 hrs  
 STA 2014C Principles of Statistics
- D. Social Foundations (6 hrs)  
 Prefer POS 2041 American National Government 3 hrs  
 Select PSY 2012 General Psychology 3 hrs
- E. Science Foundations (6 hrs)  
 Prefer PSC 1121 Physical Science 3 hrs
- Select one:  
 ANT 2511 The Human Species *or* 3 hrs  
 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:  
 ARH 2050 The History of Art I *or* 3 hrs  
 ARH 2051 The History of Art II *or*  
 MUL 2010 Enjoyment of Music *or*  
 THE 2000 Theatre Survey *or*  
 FIL 2400 History of Motion Pictures
- C. Mathematics (9 hrs)  
 MAC 1105 College Algebra 3 hrs  
 MGF 1106 Finite Mathematics GEP  
 One of the following (per GEP) GEP  
 STA 1060C Basic Statistics using MS Excel *or*  
 STA 2014C Principles of Statistics
- D. Social Science/History (12 hrs)  
 AMH 2010 U.S. History 1492-1877 GEP  
 AMH 2020 U.S. History 1877-Present GEP  
 POS 2041 American National Government GEP  
 PSY 2012 General Psychology GEP
- E. Science (9 hrs + lab)  
 PSC 1121 Physical Science GEP  
 One of the following (per GEP) GEP  
 ANT 2511 The Human Species *or*  
 BSC 1005 Biological Principles 3 hrs



AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		
BSC 1005L	Biological Principles Laboratory <i>or</i>	1 hr
PSC 1121L	Physical Science Laboratory	
<b>F. Education Courses (9 hrs)</b>		
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
<b>G. Diversity Courses (6 hrs)</b>		
GEP		
<b>H. Other Program Prerequisites (6 hrs)</b>		

Students must select an additional six hours in courses in the following liberal arts and sciences areas :communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

### 3. Early Childhood Pre-professional Requirements (6 hrs)

Offered summer semesters. Must be taken prior to Internship II

ARE 2011	Art & Creativity in Early Child Education	3 hrs
MUE 2211	Music & Movement in Early Childhood	3 hrs

### 4. Early Childhood Specialization Requirements

Early Childhood Education majors take a variety of courses related to young children, their learning, their development, and family environment. Students majoring in Early Childhood Education take a series of core and specialization courses to prepare them to teach in the schools and to demonstrate the Florida Educator Accomplished Practices. Early and continuous field experiences are provided to enhance the Early Childhood Education major's program and to integrate theory and practice in actual school settings. Throughout the Early Childhood Education program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty. Required Courses are as follows:

**Semester I (15 hrs)**

EDF 3740	Foundations of ECE	3 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	3 hrs

**Semester II (15 hrs)**

EDF 3307	Learning Environments & Guidance	3 hrs
EEX 3450	Young Children with Special Needs	3 hrs
TSL 4141	Issues in Second Language Acquisition	3 hrs
RED 3310	Emergent Literacy	3 hrs
RED 3012	Basic Foundations of Reading	3 hrs

**Summer (6 hrs)**

Offered summer semesters. Must be taken prior to Internship II

EEX 4751	Parent Involvement	3 hrs
EEC 4731	Health, Safety, & Nutrition	3 hrs

**Semester III (12 hrs)**

RED 4311	Development of Literacy	3 hrs
SCE 4023	Teaching Science & Technology	3 hrs
EEC 3940	Integration Internship I	3 hrs
MAE 4300	Exploring Mathematics	3 hrs

**Semester IV (12 hrs)**

EEC 4943	Student Teaching (Internship II)	12 hrs
----------	----------------------------------	--------

### 5. Internships

Internships comprise a critical part of the Early Childhood Education program. Therefore, it is crucial that the students are aware of the expectations and requirements of internship placements. For detailed information including requirements and application deadlines see the *Undergraduate Catalog*, College of Education, Office of Clinical Experiences.

### 6. Foreign Language Requirements (0-8 hrs)

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

### 7. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection,

and proficiency in the 12 Florida Educator Accomplished Practices.

- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination prior to graduation.

### 8. University Minimum Exit Requirements

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

### 9. Total Semester Hours Required 127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 10. Recommended Four-Year Sequence of Courses

Freshman Year			
<b>Fall (12 hrs)</b>		<b>Spring (16 hrs)</b>	
EDF 2005	3 hrs	EDG 2701	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MGF 1106	3 hrs	MAC 1105	3 hrs
PSY 2012	3 hrs	PHI 2010	3 hrs
		PSC 1121	3 hrs
		+ lab	1 hr

**Summer (6 hrs)**

POS 2041	3 hrs
SPC 1600	3 hrs

Sophomore Year			
<b>Fall (15 hrs)</b>		<b>Spring (12 hrs)</b>	
AMH 2010	3 hrs	AMH 2020	3 hrs
BSC 1005	3 hrs	AST 2002	3 hrs
EME 2040	3 hrs	Arts & Sci elec	3 hrs
ARH 2050 or	3 hrs	Arts & Sci elec	3 hrs
ARH 2051 or MUL 2010 or			
THE 2000 or FIL 2400			
STA 2014C	3 hrs		

**Summer (6 hrs)**

ARE 2011	3 hrs
MUE 2211	3 hrs

Junior Year			
<b>Fall (15 hrs)</b>		<b>Spring (15hrs)</b>	
See Section 4, Semester I above		See Section 4, Semester II above	

**Summer (6 hrs)**

See Section 4, Summer Semester

Senior Year			
<b>Fall (12 hrs)</b>		<b>Spring (12 hrs)</b>	
See Section 4, Semester III above		See Section 4, Semester IV above	

## ECONOMICS (B.A.)

### College of Business Administration

Department of Economics, BA2 305, 407-823-3266

<http://www.bus.ucf.edu/economics>

E-mail: [robertp@mail.ucf.edu](mailto:robertp@mail.ucf.edu)

BA2 303B, 407-823-2640

The Bachelor of Arts in Economics is designed for students with a liberal arts background, and will provide them with a strong foundation for future graduate studies or as training for a career in politics, teaching, research, social services and a variety of other areas. Successful completion of this program leads to the Bachelor of Arts degree with a major in Economics.

**Admission Requirements**

none

**Degree Requirements**

# UCF Degree Programs

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a College of Business Administration advisor
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours

## 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs  
Required: SPC 1600
- 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 2012,  
SYG 2000 or ANT 2000 3 hrs
- E. Science Foundations 6 hrs

## 2. Common Program Prerequisites (3 hrs)

- ECO 2013 Macroeconomics GEP  
ECO 2023 Microeconomics 3 hrs

## 3. Core requirements (15 hrs)

- ECO 3101 Intermediate Microeconomics 3 hrs  
ECO 3203 Intermediate Macroeconomics 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

\*STA 2023 and MAC 2233 or STA 2023 and any Calc. 1 & 2 sequence substitute for ECO 3401.

\*\* STA 4163 substitutes for ECO 3411.

## 4. Upper Division Restricted Electives (18 hrs)

Select one of the following tracks:

### 1. PRE-LAW TRACK

#### Restrictive electives (9 hours)

- ECO 4XXX Law and Economics  
EOP 4303 History of Economic Thought  
ECP 4403 Industrial Organization and Game Theory

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

### 2. POLITICAL ECONOMY TRACK

#### Restrictive electives (9 hours)

- ECO 4504 Public Economics  
ECO 4303 History of Economic Thought  
ECO 4013 Economics of Developing Areas

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses. For double majors in Political Science, two of these electives can be selected from Political Science with advisor's approval.

### 3. PRIVATE ENTERPRISE TRACK

#### Restrictive electives (9 hours)

- ECO 3223 Money and Banking  
ECP 3202 Labor Economics  
ECP 4403 Industrial Organization and Game Theory

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

### 4. INTERNATIONAL TRACK

#### Restrictive electives (9 hours)

- ECO 3703 International Trade  
ECP 4XXX International Macroeconomics  
ECS 4013 Economics of Developing Areas

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses. (ECS 4XXX Seminar In Global Economic Policy is highly recommended).

### 5. ECONOMICS OF GOVERNMENTAL REGULATION

#### Restrictive electives (9 hours)

- ECP 4302 Environmental & Natural Resource Economics

- ECO 4504 Public Economics  
ECP 3203 Labor Economics

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

## 6. GENERAL TRACK

Select any SIX 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major courses. Two of these electives can be selected from a related discipline with advisor's approval

It is possible to have a double track; however, only the first designated track will show up on the transcript.

**For those students interested in preparing for graduate school, the following electives are strongly recommended:**

- ECO 3703 International Trade  
ECO 4412 Econometrics  
ECO 3410 Mathematical Economics  
ECO 4504 Public Economics  
ECP 4403 Industrial Organization & Game Theory

Minors in Mathematics or Statistics are also recommended to help prepare students for graduate school. Consult with your academic advisor on the appropriate minors to be paired with the different tracks.

## 5. Required Minor (18 hrs min)

Completion of a minor in one of the following suggested areas:

Digital Media, Computer Science, History, Mathematics, Statistics, the Social and Behavioral Sciences, or Technical Writing. Other minors are acceptable with prior approval of the Economics Undergraduate Advisor.

## 6. Departmental Exit Requirements

- Students majoring in Economics must earn a grade of "C" (2.0) or better in each ECO, ECP, ECS course and in each course applied towards the major as well as a 2.0 overall average in the major.
- Computer Competency met by Research Methods course.

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

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

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 9. University Minimum Exit Requirements

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

## Total Semester Hours Required 120 hours

**Related Programs:** Economics BSBA

**Related Minors:** Computer Science, Economics, Mathematics, Political Science, Psychology, Sociology, Statistics

### Transfer Notes:

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

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

- ECO 2013 and 2023 are prerequisites for all subsequent economics courses and will need to be taken.

## Four Year Plan of Study - B.A. Economics

<b>Freshman</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100CC*	3
Must complete 9 hours in a summer semester			

<b>Sophomore</b>			
<b>1st Term</b>	<b>16 hrs</b>	<b>2nd Term</b>	<b>16 hrs</b>
ECO 2013*	3	ECO 2023*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	STA 2023*	3
Foreign Language	3	Foreign Language	3
* "C" (2.0) or better grade required in each class			

<b>Junior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ECO 3401 or MAC 2233	6	ECO 3411	3
ECO 3203	3	ECO 3101	3
Minor**	3	Minor**	3
***Elective	3	Minor**	3
		ECO Elective	3

<b>Senior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>13 hrs</b>
ECO Elective	3	ECO 4451	3
ECO Elective	3	ECO Elective	3
Minor**	3	Minor**	3
ECO Elective	3	ECO Elective	3
***Elective	3	***Elective	1

\*\* 18 hours (minimum) of minor required.  
 \*\*\* General electives as required to reach 120 semester hours.

## ECONOMICS, BUSINESS (B.S.B.A.)

**College of Business Administration**  
**Department of Economics, BA2 101, 407-823-2184**  
<http://www.bus.ucf.edu/economics>

R. Pennington; 407-823-3266, robertp@bus.ucf.edu

### Admission Requirements to Business Economics

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

### Degree Requirements

#### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs  
Required: SPC 1600
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs  
Select MAC 1105 College Algebra  
Select CGS 2100CC Computer Fundamentals for Business
- D. Social Foundations 3 hrs  
Select ECO 2013 Principles of Macroeconomics *or*  
ECO 2023 Principles of 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
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics
- ECO 3401 Quantitative Business Tools I\*
- CGS 2100CC Computer Fundamentals for Business

\* At UCF, students who have completed MAC 2233 and STA 2023 or STA 2023 and any Calc. 1 & 2 sequence substitute for ECO 3401 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 or subsequent semester in the College of Business Administration:  
 GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs

GEB 3356	Introduction to International Business	3 hrs
BUL 3130	Legal & Ethical Environ. of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs
**STA 4163 substitutes for ECO 3411		

#### 4. Special College and/or Departmental Requirements

- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Final exams will be given during Exam Week.
- Students must have at least a 2.0 GPA in the COB.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students majoring in Business Economics must earn a grade of "C" (2.0) or better in each ECO, ECP, ECS course and in each course applied towards the major as well as a 2.0 overall average in the major.

#### 5. Required Major Courses (9 hrs)

ECO 3101	Intermediate Microeconomics	3 hrs
ECO 3203	Intermediate Macroeconomics	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 options:

##### 1. BUSINESS ECONOMICS TRACK

##### Restrictive electives (9 hours)

ECP 3203	Labor Economics
ECP 4403	Industrial Organization and Game Theory
ECO 3223	Money and Banking

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restrictive elective courses.

##### 2. INTERNATIONAL TRACK

##### Restrictive electives (9 hours)

ECO 3703	International Trade
ECO 4XXX	International Macroeconomics
ECS 4013	Economics of Developing Areas

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restrictive elective courses. ECS 4XXX Seminar in Global Economic Policy is highly recommended.

##### 3. PRE-LAW TRACK

##### Restrictive electives (9 hours)

ECO 4XXX	Law and Economics
ECP 3203	Labor Economics
ECP 4403	Industrial Organization and Game Theory

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restrictive elective courses.

##### 4. FINANCIAL ECONOMICS TRACK

##### Restrictive electives (9 hours)

ECO 4412	Econometrics
ECO 3203	Money and Banking
ECP 4XXX	International Macroeconomics

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restrictive elective courses. For double majors in Finance, two of these electives can be selected from Finance with advisor's approval.

##### 5. ECONOMICS OF GOVERNMENTAL REGULATION

##### Restrictive electives (9 hrs)

ECP 4302	Environmental & Natural Resource Economics
ECO 4504	Public Economics
ECP 3203	Labor Economics

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restrictive elective courses.

# UCF Degree Programs

## 6. GENERAL TRACK

Select any SIX 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major courses. Two of these electives can be selected from a related discipline with advisor's approval.

It is possible to have a double track; however, only the first designated track will appear on the transcript.

**For those students interested in preparing for graduate school, the following electives are strongly recommended:**

ECO 3703	International Trade
ECO 4412	Econometrics
ECO 3410	Mathematical Economics
ECO 4504	Public Economics
ECP 4403	Industrial Organization & Game Theory

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

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

## 8. University Minimum Exit Requirements

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

## 9. Electives\*\*\* (variable)

**Total Semester Hours Required 120 hrs**

### Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Principles of Macroeconomics, Principles of Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or 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 - Business Economics

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100CC*	3

Must complete 9 hours in a summer semester

<b>Sophomore</b>			
1st Term	15 hrs	2nd Term	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3

\* "C" (2.0) or better grade required in each class

<b>Junior</b>			
1st Term	15 hrs	2nd Term	15 hrs
GEB 3031	6	ECO 3411	3
GEB 3356	3	MAN 3025	3
MAR 3023	3	ECO 3203	3
ECO 3101	3	FIN 3403	3
		ECO Elective	3

<b>Senior</b>			
1st Term	15 hrs	2nd Term	15 hrs
ECO Elective	3	MAN 4720	3
ISM 3011	3	***Elective	3
BUL 3130	3	ECO Elective	3
ECO Elective	3	ECO 4451	3
ECO Elective	3	ECO Elective	3

\*\*\*General electives as required to reach 120 semester hours.

## ECONOMICS (B.A./M.A.A.E. and B.S.B.A./M.A.A.E.)

### Accelerated Undergraduate/Graduate Program

**Note:** For detailed information about these programs, see descriptions in the "Accelerated Undergraduate/Graduate Program" section of this *Undergraduate Catalog*.

## ELECTRICAL ENGINEERING (B.S.E.E.)

**College of Engineering and Computer Science  
School of Electrical Engineering & Computer Science  
Engineering & Computer Science,  
Harris Corp Engineering Ctr, Rm 245, 407-823-5765,  
Fax: 407-823-5835,  
<http://www.ee.ucf.edu>**

Samuel Richie, E-mail: richie@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 (36+2 hrs)

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

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Prefer ECO 2013 or ECO 2023.	
2. ANT 2000, PSY 2012, or SYG 2000.	

- E. Science Foundations 7 hrs  
 1. Select PHY 2048/48L (PR: MAC 2311)  
 2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

**2. Common Program Prerequisites (CPP's) (19 hrs)**  
 These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.  
**Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

**3. Courses Required for the Engineering Core (14 hrs)**  
 The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do **not** satisfy major requirements 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 <i>or</i>	
EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs
EGN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists III	3 hrs

**4. Courses Required for the Major (41 hrs)**

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Analog and Digital Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

**5. Approved 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.

**6. Departmental Graduation Requirements (6 hrs)**

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

**7. Foreign Language Requirements (0-8 hrs)**  
**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** **None**

**8. University Minimum Graduation Requirements**

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.

- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

**Total Semester Hours Required:** **128 hrs**

**Related Programs:** Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:** Engineering Leadership & Management, Intelligent Robotic Systems

**Transfer Notes:**

- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

**Tentative Course Schedule for Entering Freshmen**

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

**Electrical Engineering - 128 semester hours required**

**FIRST YEAR**

<b>Fall</b>	<b>12 hrs<sup>1,3</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1,3</sup></b>
EGN 1006C Intro to Engr	1	EGN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*CHS 1440 Chem for Engrs	4	*SPC 1016 Tech Presentations	3
*MAC 2311 Calc with Analytic Geo I	4	*MAC 2312 Calc with Analy Geo II	4
		*PHY 2048/L Phys Eng I w/lab	4

**Summer 11 hrs<sup>1</sup>**

Historical Foundations 1a	3
*MAC 2313 Calc with Analytic Geo III	4
*PHY 2049 Phys for Engr/Sci II	3
*PHY 2049L Phys Lab En/Sci II	1

**SECOND YEAR**

<b>Fall</b>	<b>15 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
*MAP 2302 Diff Equations	3	*Cultural & Hist Foundations	3
*PHY 3101 Phys for Engr/Sci III	3	EGN 3310 Engr Anal-Statics	3
*Science Foundations 2	3	EEL 3342C Intro to Dig Circ/Sy	3
*Social Foundations 1	3	EEL 3801C Intro to Cmptr Engr2	3
EGN 3420 Engineering Anal2	3	EEL 3004 Electrical Networks	3

**Summer 6 hrs<sup>1</sup>**

Historical Foundations 1b	3
*ECO 2013 Macroeconomics <i>or</i>	3
ECO 2023 Microeconomics	

**THIRD YEAR**

<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>14 hrs</b>
EEL 3306 Semicond Devices I	3	EEL 3307C Electronics I	4
STA 3032 Prob & Stats Engrs	3	EEL 3657 Linear Control Sys	3
EEL 4767C Cmptr Sys Design I	4	EEL 3552C Anal & Dig Comm	4
EEL 3123C Networks and Systems	4	EGN 3321 Engr Anal-Dynamics	3
		<i>or</i>	
		EEL 3358 Ther-Flds-Ht Transfer	

**FOURTH YEAR**

<b>Fall</b>	<b>13 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
EEL 4750 Signal Proc Fund	3	Approved Technical Elective	3
EEL 3470 Electromagnetic Flds	3	Approved Technical Elective	3
EEL 4309C Electronics II	4	Approved Technical Elective	4
EEL 4914 Senior Design I	3	EEL 4915L Senior Design II	3

**Notes:**

1. Courses marked with an asterisk (\*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.

# UCF Degree Programs

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.

## ELECTRICAL ENGINEERING - MICROELECTRONICS CONCENTRATION (B.S.E.E.)

College of Engineering and Computer Science  
School of Electrical Engineering & Computer Science  
Harris Corp Engineering Ctr, Rm 245, 407-823-5765,  
Fax: 407-823-5835,

<http://www.ee.ucf.edu>

Samuel Richie, E-mail: richie@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 (36+2 hrs)

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

- |  |       |
|--|-------|
| A. Communication Foundations   | 9 hrs |
| 1. ENC 1101 & ENC 1102   |       |
| 2. Prefer SPC 1016   |       |
| B. Cultural and Historical Foundations   | 9 hrs |
| 1. Select two courses from Historical Foundations  |       |
| 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120 |       |
| C. Mathematical Foundations  | 7 hrs |
| 1. Select MAC 2311 (PR: MAC 1114)  |       |
| 2. Select STA 3032 (PR: MAC 2312)  |       |
| D. Social Foundations  | 6 hrs |
| 1. Prefer ECO 2013 or ECO 2023.  |       |
| 2. ANT 2000, PSY 2012, or SYG 2000.  |       |
| E. Science Foundations   | 7 hrs |
| 1. Select PHY 2048&L (PR: MAC 2311)  |       |
| 2. ANT 2011, BSC 1005, GLY 1030, GEO 1200, or MCB 1310   |       |

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

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

**Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048&L	Physics for Engineers & Scientists I	GEP
PHY 2049&L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

### 3. Courses Required for the Engineering Core (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4.

below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do **not** satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics <i>or</i>	
EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs
EGN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists III	3 hrs

### 4. Courses Required for the Major (41 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Analog & Digital Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

### 5. Approved Microelectronics Technical Electives (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.

### 6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

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

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

**Graduation:** none

### 8. University Minimum Graduation Requirements

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

**Total Semester Hours Required:** 128 hours

**Related Programs:** Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:** Engineering Leadership & Management, Intelligent Robotic Systems

### 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 - Microelectronics Concentration 128 semester hrs required

### FIRST YEAR

Fall	12 hrs <sup>1,3</sup>	Spring	15 hrs <sup>1,3</sup>
EGN 1006C Intro to Engr	1	EGN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*CHS 1440 Chem for Engrs	4	*SPC 1016 Tech Presentations	3
*MAC 2311 Calc Analytic Geo I	4	*MAC 2312 Analytic Geo II	4
		*PHY 2048/L Phys Eng I w/lab	4

### Summer 11 hrs<sup>1</sup>

*Historical Foundations 1a	3
*MAC 2313 Calc Analytic Geo III	4
*PHY 2049 Phys for Engr/Sci II	3
*PHY 2049L Phys Lab En/Sci II	1

### SECOND YEAR

Fall	15 hrs <sup>1</sup>	Spring	15 hrs <sup>1</sup>
*MAP 2302 Diff Equations	3	*Cultural Foundations	3
*PHY 3101 Phys Engr/Sci III	3	EGN 3310 Engr Anal-Statics	3
*Science Foundations 2	3	EEL 3342C Intro to Dig Circ/Sys	3
*Social Foundations 1	3	EEL 3801C Intro to Cmptr Engr2	3
EGN 3420 Engineering Anal2	3	EEL 3004 Electrical Networks	3

### Summer 6 hrs<sup>1</sup>

*Historical Foundations 1b	3
*ECO 2013 Macroeconomics or	3
ECO 2023 Microeconomics	

### THIRD YEAR

Fall	14 hrs	Spring	14 hrs
EEL 3306 Semicond Devices I	3	EEL 3307C Electronics I	4
STA 3032 Prob & Stats Engrs	3	EEL 3657 Linear Control Sys	3
EEL 4767C Cmptr Sys Design I	4	EEL 3552C Analog & Dig. Comm	4
EEL 3123C Networks and Systems	4	EGN 3321 Engr Anal-Dynamics	3
		<i>or</i>	
		EGN 3358 Ther-Flds-Ht Transfer	

### FOURTH YEAR

Fall	13 hrs	Spring	12/13 hrs
EEL 4750 Dig Signal Proc Fund	3	Approved microelectronics elective	3
EEL 3470 Electromagnetic Flds	3	Approved microelectronics elective	3
EEL 4309C Electronics II	4	EEL 4915L Senior Design II	3
EEL 4914 Senior Design I	3	Approved microelectronics elective	3/4

#### Notes:

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

## ELECTRICAL ENGINEERING - WIRELESS COMMUNICATION CONCENTRATION (B.S.E.E.)

**College of Engineering and Computer Science**  
**School of Electrical Engineering & Computer Science**  
**Harris Corp Engineering Ctr, Rm 245; 407-823-5765,**  
**Fax: 407-823-5835,**

<http://www.ee.ucf.edu>

Samuel Richie, E-mail: richie@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 (36+2 hrs)

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

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114).	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Prefer ECO 2013 or ECO 2023.	
2. ANT 2000, PSY 2012, or SYG 2000.	
E. Science Foundations	7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)	
2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310	

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

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

**Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities <i>or</i> Social Sciences	GEP

## 3. Courses Required for the Engineering Core (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics <i>or</i>	
EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs
EGN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists III	3 hrs

## 4. Courses Required for the Major (41 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Analog & Digital Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801C	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

## 5. Approved Wireless Technical Electives (10 hrs)

Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those stu-

## UCF Degree Programs

dents with a declared interest in wireless communication, a concentration in this area if available by taking the wireless technical electives in addition to the required communication courses listed in 3. above.

### 6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

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

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

**Graduation:** none

### 8. University Minimum Graduation Requirements

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

**Total Semester Hours Required:** 128 hrs

**Related Programs:** Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:** Engineering Leadership & Management, Intelligent Robotic Systems

#### 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

#### FIRST YEAR

Fall	12 hrs <sup>1,3</sup>	Spring	15 hrs <sup>1,3</sup>
EEN 1006C Intro to Engr	1	EEN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*CHS 1440 Chem for Engrs	4	*SPC 1016 Tech Presentations	3
*MAC 2311 Calc Analytic Geo I	4	*MAC 2312 Calc Analytic Geo II	4
		*PHY 2048/L Phys Eng I w/lab	4
<b>Summer</b>	<b>11 hrs<sup>1</sup></b>		
*Historical Foundations 1a	3		
*MAC 2313 Calc Analytic Geo III	4		
*PHY 2049 Phys for Engr/Sci II	3		
*PHY 2049L Phys Lab En/Sci II	1		

#### SECOND YEAR

Fall	15 hrs <sup>1</sup>	Spring	15 hrs <sup>1</sup>
*MAP 2302 Diff Equations	3	*Cultural Foundations 2	3
*PHY 3101 Phys Engr/Sci III	3	EEN 3310 Engr Anal-Statics	3
*Science Foundations 2	3	EEL 3342C Intro to Dig Circ/Sys	3
*Social Foundations 1	3	EEL 3801C Intro to Cmptr Engr2	3
EEN 3420 Engineering Anal2	3	EEL 3004 Electrical Networks	3

#### Summer

	<b>6 hrs<sup>1</sup></b>
*Cult & Historical Foundations 1b	3
*ECO 2013 Macroeconomics <i>or</i>	3
ECO 2023 Microeconomics	

#### THIRD YEAR

Fall	14 hrs	Spring	14 hrs
------	--------	--------	--------

EEL 3306 Semicond Devices I	3	EEL 3307C Electronics I	4
STA 3032 Prob & Stats for Engr	3	EEL 3657 Linear Control Sys	3
EEL 4767C Cmptr Sys Design I	4	EEL 3552C Analog & Dig Comm	4
EEL 3123C Networks and Systems	4	EGN 3321 Engr Anal-Dynamics	3
		<i>or</i>	
		EGN 3358 Ther-Flds-Ht Transfer	

#### FOURTH YEAR

Fall	13 hrs	Spring	13 hrs
EEL 4750 Dig Signal Proc Fund	3	EEL 4515C Dig Comm Systems	4
EEL 3470 Electromagnetic Flds	3	Approved wireless tech elective	3
EEL 4309C Electronics II	4	EEL 4915L Senior Design II	3
EEL 4914 Senior Design I	3	Approved wireless tech elective	3

#### Notes

1. Courses marked with an asterisk (\*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. 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.

#### Accelerated BS/MS Degree Program

The Electrical Engineering program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

## ELECTRICAL ENGINEERING TECHNOLOGY - COMPUTER SYSTEMS CONCENTRATION (B.S.E.E.T.)

### College of Engineering and Computer Science

### Engineering Technology (ENT) Department, ENGR 207

<http://www.ent.ucf.edu>

Coordinator: Alireza Rahrooh  
407-823-4749 Fax: 407-823-4746  
E-mail: rahrooh@pegasus.cc.ucf.edu  
<http://www.ent.ucf.edu>

**Admission Requirements** none

#### Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

#### 1. UCF General Education Program (36+2 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	3 hrs
2. Select STA 2023	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2053C	
2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C,	

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

<b>(C or better grades are required in all courses)</b>		
MAC 2253	Calculus I	3/4 hrs
<i>or</i> MAC 2311		
MAC 2254	Calculus II or equiv	3/4 hrs
<i>or</i> MAC 2312		
PHY 2053C	Physics I/Lab	GEP
<i>or</i> PHY 2048/L		

#### 3. Engineering Technology Core Requirements (25 hrs)

<b>(C or better grades are required in all courses)</b>		
BSC 1005/L, BSC 1050/L, or GEO 1200/LBSC2010C	GEP	
ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253	Calculus I <i>or</i>	CPP
MAC 2311		
MAP 3401	Problem Analysis <i>or</i>	



MAC 2312	Calculus II	CPP
PHY 2053C	College Physics I	CPP
PHY 2054C	College Physics II	4 hrs
ETG 3541	Applied Mechanics	3 hrs
ETI 3651C	Computer Applications	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engrng Quality Assurance	3 hrs
ETI 4448	Applied Project Management	3 hrs
STA 2023	Statistical Methods I	GEP

**4. Technical Specialization (56 hrs)**  
**Lower Level Required and Elective Courses (20 hrs)**  
**(C or better grades are required in all courses)**

EST 3543C	Programmable Logic Controllers	3 hrs
CET 3323C	Digital Technology	4 hrs
CET 2364	System Applications in C	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
EET 21025C	Electrical Circuits	4 hrs
STA 2023	Statistical Methods I	GEP
Lower level technical elective		32 hrs

**Upper Level Required Courses (30 hrs)**  
**(C or better grades are required in all courses)**

CET 3198C	Digital Systems	3 hrs
CET 3503	Microcomputer Technology I	3 hrs
CET 3383	Applied Systems Analysis I	3 hrs
CET 4333	Computer Organization & Design	3 hrs
CET 4427	Applied Database I	3 hrs
CET 4505	Applied Operating Systems I	3 hrs
EET 3716	Network Analysis	3 hrs
CET 4138C	Digital Programmable Devices	3 hrs
CET 4134C	Microprocessor Elec II	3 hrs
CET 4429	Applied Database II	3 hrs

**Upper Level Technical Electives (6 hrs)**  
**(C or better grades are required in all courses)**

See faculty advisor for list of approved Technical Electives.

**5. Departmental Exit Requirement (3 hrs)**  
**(C or better grade is required)**

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

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

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

**Graduation:** none

**7. Approved Technical Electives**

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

**8. University Graduation Requirements**

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

**Total Semester Hours Required:** 128 hours

**Related Programs:** Electrical Engineering Technology (Electrical Systems Concentration)

**Related Minors:** none

**Transfer Notes:**

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

- Students entering a UCF undergraduate program and having a

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

- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department
- PHY 2048/L can substitute for PHY 2053C.

**Tentative Course Schedule for the Computer Systems Concentration**

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

<b>Junior Year</b>			
<b>Fall</b>	<b>13/14 hrs</b>	<b>Spring</b>	<b>12/13 hrs</b>
MAC 2253/2311 Calculus I	3/4	MAP 3401 Prob Analysis or	
EET 3716 Network Analysis	3	MAC 2312 Calculus II	3/4
ETI 3116 App Eng Quality Assur	3	CET 3383 Appl Sys Anal I	3
CET 4427 Applied Database I	3	CET 3198C Digital Systems	3
<b>Summer 10 hrs</b>			
CET 4134C Micro Electronics II	3		
CET 4333 Computer Org	3		
CET 4138C Digital Prgml Devices	4		

<b>Senior Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>14 hrs</b>
ETI 4448 Appl Proj Management	3	ETG 4950C Senior Design Proj	3
CET 3503 Microcomputer Tech I	3	CET 4427 Applied Database II	3
CET 4505 Appl Oper Sys I	3	ETI 3671 Tech Econ Anal	2
ETI 3651C Computer Appl	3	ETG 3541 Appl Mechanics	3
CET Elective	3	CET Elective	3

**ELECTRICAL ENGINEERING TECHNOLOGY - ELECTRICAL SYSTEMS CONCENTRATION (B.S.E.E.T.)**

**College of Engineering and Computer Science  
 Engineering Technology (ENT) Department  
 ENGR 207**

<http://www.ent.ucf.edu>

*Coordinator:* Alireza Rahrooh

407-823-4749 Fax: 407-823-4746

E-mail: rahrooh@pegasus.cc.ucf.edu

<http://www.ent.ucf.edu>

**Admission Requirements** none

**Degree Requirements**

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

**1. UCF General Education Program (36+2 hrs)**

A. Communication Foundations	9 hrs
1. ENC 1101 & 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2053C	
2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C	

**2. Common Program Prerequisites (CPP) (6/8 hrs)**  
**(C or better grades are required in all courses)**

MAC 2253 or	Calculus I	3/4 hrs
-------------	------------	---------

## UCF Degree Programs

MAC 2311		
MAC 2254 <i>or</i>	Calculus II or equiv	3/4 hrs
MAC 2312		
PHY 2053C <i>or</i>	Physics I/Lab	GEP
PHY 2048/L		

### 3. Engineering Technology Core Requirements (25 hrs)

**(C or better grades are required in all courses)**

BSC 1005/L, BSC 1050/L, GEO 1200/L, BSC2010C		GEP
ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253 <i>or</i>	Calculus I	CPP
MAC 2311		
MAP 3401	Problem Analysis <i>or</i>	
MAC 2312	Calculus II	CPP
PHY 2053C	College Physics I	CPP
PHY 2054C	College Physics II	4 hrs
ETG 3541	Applied Mechanics	3 hrs
ETI 3651C	Computer Applications	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engrng Quality Assurance	3 hrs
ETI 4448	Applied Project Management	3 hrs
STA 2023	Statistical Methods I	GEP

### 4. Technical Specialization (56 hrs)

#### Lower Level Required and Elective Courses (25 hrs)

**(C or better grades are required in all courses)**

EST 3543C	Programmable Logic Controllers	3 hrs
CET 3323C	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 2025C	Electrical Circuits	4 hrs
EET 3085C	Electricity and Electronics	4 hrs
STA 2023	Statistical Methods I	GEP
	Lower Level Technical Elective	3 hrs

#### Upper Level Required Courses (22 hrs)

**(C or better grades are required in all courses)**

CET 3198C	Digital Systems	3 hrs
CET 3503	Microcomputer Technology I	3 hrs
CET 4134C	Microprocessor Electronics II	3 hrs
EET 3716	Network Analysis	3 hrs
EET 4158C	Linear Integrated Circuits	3 hrs
EET 4548	Power Systems	3 hrs
EET 4732C	Feedback Control Systems	4 hrs

#### Upper Level Technical Electives (9 hrs)

Select 7-9 hours from courses listed below:

**(C or better grades are required in all courses)**

CET 4138C	Digital Programmable Devices	3 hrs
CET 4333	Computer Organization & Design	3 hrs
CET 4931	Current Topics in Tech	3 hrs
EET 4329C	Communication Systems	4 hrs
EET 4339C	Antennas and Propagation	3 hrs
EET 4359C	Digital Communications	4 hrs
EST 3222	Intro to Photonics	3hrs

### 5. Departmental Exit Requirement (3 hrs)

- (C or better grade is required)**
- ETG 4950C Senior Design Project 3 hrs
  - A grade of 2.0 or better is required in all prerequisites.

### 6. Foreign Language Requirements (0-8 hrs)

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

**Graduation:** none

### 7. Approved Technical Electives (0-4 hrs)

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

### 8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF

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

**Total Semester Hours Required: 128 hours**

**Related Programs:** Electrical Engineering Technology (Computer Systems Concentration).

**Related Minors:** none

#### Transfer Notes:

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

### Tentative Course Schedule for the Electrical Systems Concentration

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

Junior Year		13/14 hrs	Spring	15/16 hrs
Fall	MAC 2253 Applied Calc I or	3/4	MAP 3401 Problem Analysis or	3/4
	MAC 2311 Calc w/Anal Geom I		MAC 2312 Calculus II	
	PHY 2054C/2049 Physics II	4	ETI 3651C Computer Appl	3
	ETG 3541 Applied Mechanics	3	CET 3198C Digital Systems	3
	CET 3503 Microcom Tech I	3	EET 3716 Network Anals	3
			ETI 3671 Tech Economic Analysis	2

Summer	6 hrs
CET 4134C Microprocessor Elec II	3
ETI 4448 Applied Project Management	3

Senior Year		12 hrs	Spring	13 hrs
Fall	EET 4548 Power Systems	3	ETG 4950C Sr. Design Proj	3
	EET 4158C Linear Int Cir	3	CET/EET Approved Elective	4
	ETI 3116 App Eng Quality Assur	3	EET 4732C Feedback Control	3
	CET/EET Approved Elective	3	ENC 3241 Writing Tech Pros	3

## ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)

### AS to BSEET 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](mailto:ducharme@mail.ucf.edu)

**Admission Requirements** **none**

**Degree Requirements**

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

**1. UCF General Education Program** **(36+2 hrs)**

- |  |       |
|--|-------|
| A. Communication Foundations                           | 9 hrs |
| 1. ENC 1101 & 1102                                     |       |
| 2. Prefer SPC 1016                                     |       |
| B. Cultural and Historical Foundations                 | 9 hrs |
| C. Mathematical Foundations                            | 6 hrs |
| 1. Select MAC 1105                                     |       |
| 2. Select STA 2023                                     |       |
| D. Social Foundations                                  | 6 hrs |
| E. Science Foundations                                 | 8 hrs |
| 1. Select PHY 2053C                                    |       |
| 2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C, |       |

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

**(C or better grades are required in all courses)**

- |                            |                      |         |
|----------------------------|----------------------|---------|
| MAC 2253 or<br>MAC 2311    | Calculus I           | 3/4 hrs |
| MAC 2254 or<br>MAC 2312    | Calculus II or equiv | 3/4 hrs |
| PHY 2053C or<br>PHY 2048/L | Physics I/Lab        | GEP     |

**3. Engineering Technology Core Requirements** **(22 hrs)**

**(C or better grades are required in all courses)**

- |                                  |  |       |
|----------------------------------|--|-------|
| BSC 1005/L, BSC 1050/L, BSC2010C | GEP                                    |       |
| ENC 3241                         | Writing for the Technical Professional | 3 hrs |
| MAC 1105                         | College Algebra                        | GEP   |
| MAC 1114                         | College Trigonometry                   | 3 hrs |
| MAC 2253 or<br>MAC 2311          | Calculus I                             | CPP   |
| MAP 3401                         | Problem Analysis or                    |       |
| MAC 2312                         | Calculus II                            | CPP   |
| PHY 2053C                        | College Physics I                      | CPP   |
| PHY 2054C                        | College Physics II                     | 4 hrs |
| ETG 3541                         | Applied Mechanics                      | 3 hrs |
| ETI 3671                         | Technical Economic Analysis            | 3 hrs |
| ETI 3116                         | Applied Engrng Quality Assurance       | 3 hrs |
| ETI 4448                         | Applied Project Management             | 3 hrs |
| STA 2023                         | Statistical Methods I                  | GEP   |

**4. Technical Specialization** **(59 hrs)**

Lower Level Required and Elective Courses

**(C or better grades are required in all courses)**

- |                      |                                 |       |
|----------------------|---------------------------------|-------|
| EST 3543C            | Programmable Logic Controllers  | 3 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 2025C            | Electrical Circuits             | 4 hrs |
| EET 3085C            | Electricity and Electronics     | 4 hrs |
| STA 2023             | Statistical Methods I           | GEP   |
| Lower level elective |                                 | 2 hrs |

**Upper Level Required Courses** **(30 hrs)**

**(C or better grades are required in all courses)**

- |           |                               |       |
|-----------|-------------------------------|-------|
| EET 3716  | Network Analysis              | 3 hrs |
| EET 4158C | Linear Integrated Circuits    | 3 hrs |
| EET 4548  | Power Systems                 | 3 hrs |
| EST 3222  | Intro to Photonics            | 3 hrs |
| EST 3213  | Photonics Simulation          | 3 hrs |
| EST 3211  | Wave Photonics                | 3 hrs |
| EST 4236  | Laser Systems Technology      | 3 hrs |
| EST 4227  | Photonics Sensors and Devices | 3 hrs |
| EST 4256  | Photonics Communication       | 3 hrs |
| EST 4259C | Manufacturing of Photonics    | 3 hrs |

**Upper Level Technical Electives** **(9 hrs)**

**(C or better grades are required in all courses)**

Check with ENT faculty advisor for approved electives.

**5. Departmental Exit Requirement** **(3 hrs)**

**(C or better grade is required)**

- EST 4259C Photonic Systems Analysis 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

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

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

**Graduation:** **none**

**7. Approved Technical Electives** **(0-4 hrs)**

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

**8. University Minimum Graduation Requirements**

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

**Total Semester Hours Required:** **128 hrs**

**Related Programs:** Electrical Engineering Technology (Computer Systems Concentration).

**Related Minors:** **none**

**Transfer Notes:**

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

**Tentative Course Schedule for the Photonics Concentration**

The tentative course schedule listed below is a guide for those students who plan on completing their 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	Spring
MAC 2253 Applied Calc I or MAC 2311 Calc w/Anal Geom I	13/14 hrs 3/4	14/15 hrs 3/4
PHY 2054C/2049 Physics II	4	EST 3211 Wave Photonics 3
ETG 3541 Applied Mechanics	3	EST 4236 Laser Sys Tech 3
EST 3222 Intro to Photonics	3	EET 3716 Network Anals 3
		ETI 3671 Tech Economic Analysis 2

**Summer**

	6 hrs
EST 3116 Appl Eng Quality Assur	3
ETI 4448 Applied Project Management	3

**Senior Year**

	Fall	Spring
EET 4548 Power Systems	3	EST 4256 Photonics Comm 3
EET 4158C Linear Int Cir	3	CET/EET Approved Elective 3
ETI 3116 App Eng Quality Assur	3	EST 3543C Prog Logic Cont 3
EST 3213 Photonics Simulation	3	ENC 3241 Writing Tech Pros 3
EST 4227 Photonics Sensor	3	EST 4259C Photonics System 3

# UCF Degree Programs

## ELEMENTARY EDUCATION (B.S.)

### College of Education

#### Department of Teaching and Learning Principles, ED 209

<http://reach.ucf.edu/~elemed1>

Program Coordinator: Dr. Rosie Webb Joels, ED 122-Q  
407-823-2008

Email: rjoels@pegasus.cc.ucf.edu

#### Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

#### Degree Requirements

- Students should see an advisor prior to registering for classes
- 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 3 hrs                       |
| ENC 1102                                   | Composition II 3 hrs                      |
| Select SPC 1600                            | Fundamentals of Oral Communication 3 hrs  |
| B. Cultural-Historical Foundations (9 hrs) |   |
| Select AMH 2010                            | U.S. History 1492-1877 3 hrs              |
| Select AMH 2020                            | U.S. History 1877-Present 3 hrs           |
| Select PHI 2010                            | Introduction to Philosophy 3 hrs          |
| C. Mathematical Foundations (6 hrs)        |   |
| Select MGF 1106                            | Finite Mathematics 3 hrs                  |
| Select one:                                |   |
| STA 1060C                                  | Basic Statistics using MS Excel <i>or</i> |
| STA 2014C                                  | Principles of Statistics 3 hrs            |
| D. Social Foundations (6 hrs)              |   |
| Prefer POS 2041                            | American National Government 3 hrs        |
| Select PSY 2012                            | General Psychology 3 hrs                  |
| E. Science Foundations (6 hrs)             |   |
| Prefer PSC 1121                            | Physical Science 3 hrs                    |
| Select one:                                |   |
| ANT 2511                                   | The Human Species <i>or</i>               |
| BSC 1005                                   | Biological Principles 3 hrs               |

Note: See laboratory component under Section 2.

#### 2. Common Program Prerequisites (29 hrs)

- |                                    |   |
|------------------------------------|---|
| A. Communications (9 hrs)          |   |
| ENC 1101                           | Composition I GEP                         |
| ENC 1102                           | Composition II GEP                        |
| SPC 1600                           | Fundamentals of Oral Communication GEP    |
| B. Humanities (6 hrs)              |   |
| PHI 2010                           | Introduction to Philosophy GEP            |
| Select one:                        |   |
| ARH 2050                           | The History of Art I <i>or</i>            |
| ARH 2051                           | The History of Art II <i>or</i>           |
| MUL 2010                           | Enjoyment of Music <i>or</i>              |
| THE 2000                           | Theatre Survey <i>or</i>                  |
| FIL 2400                           | History of Motion Pictures 3 hrs          |
| C. Mathematics (9 hrs)             |   |
| MAC 1105                           | College Algebra 3 hrs                     |
| MGF 1106                           | Finite Mathematics GEP                    |
| One of the following (per GEP)     |   |
| STA 1060C                          | Basic Statistics using MS Excel <i>or</i> |
| STA 2014C                          | Principles of Statistics GEP              |
| D. Social Science/History (12 hrs) |   |
| AMH 2010                           | U.S. History 1492-1877 GEP                |
| AMH 2020                           | U.S. History 1877-Present GEP             |
| POS 2041                           | American National Government GEP          |
| PSY 2012                           | General Psychology GEP                    |
| E. Science (9 hrs + lab)           |   |
| PSC 1121                           | Physical Science GEP                      |
| One of the following (per GEP)     |   |
| ANT 2511                           | The Human Species <i>or</i>               |
| BSC 1005                           | Biological Principles GEP                 |
| Select one:                        |   |
| AST 2002                           | Astronomy <i>or</i>                       |
| GEO 1200                           | Physical Geography <i>or</i> 3 hrs        |

- |   |  |       |
|---|--|-------|
| GLY 1030                                | Geology and its Applications                                   | 1 hr  |
| Select one associated science lab:      |  |       |
| BSC 1005L                               | Biological Principles Laboratory <i>or</i>                     |       |
| 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 (10 hrs) |  |       |
| MAE 2801                                | Elementary School Mathematics (required prior to Internship I) | 4 hrs |

Additional required electives in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. 6 hrs

#### 3. Recommended Sequence of Program Courses

NOTE: This recommended sequence may vary at selected regional campus locations.

- |   |   |        |
|---|---|--------|
| Semester I (9 hrs)                      |   | 15 hrs |
| EDG 4323                                | Professional Teaching Practices (required prior to Internship I)                          | 3 hrs  |
| EDF 4214                                | Classroom Learning Principles   | 3 hrs  |
| LAE 3414                                | Children's Literature   | 3 hrs  |
| RED 3012                                | Foundations of Reading (required prior to Internship I)                                   | 3 hrs  |
| TSL 4080                                | Theory and Practice of Teaching ESOL Students in Schools (required prior to Internship I) | 3 hrs  |
| Semester II (Internship Block) (12 hrs) |   |        |
| RED 4519                                | Diagnostic & Corrective Reading Strategies  | 3 hrs  |
| MAE 4326                                | How Children Learn Math   | 3 hrs  |
| EEX 4003                                | Teaching/Management Tech Ex Ed Student in the Regular Setting                             | 3 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

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

- |                |   |       |
|----------------|---|-------|
| 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 |

- |                       |   |       |
|-----------------------|---|-------|
| Semester III (15 hrs) |   |       |
| SCE 3310              | Teaching Science in the Elementary School       | 3 hrs |
| SSE 3312              | Teaching Social Science in the Elem School      | 3 hrs |
| LAE 4314              | Teaching Language Arts in the Elementary School | 3 hrs |

- |          |                                       |       |
|----------|---------------------------------------|-------|
| 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 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

#### 4. Foreign Language Requirements (0-8 hrs)

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

#### 5. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished

- Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

**6. University Minimum Exit Requirements**

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

**7. Total Semester Hours Required 128 hours**

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

**8. Recommended Four-Year Sequence of Courses**

**Freshman Year**

<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
EDF 2005	3 hrs	EDG 2701	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MGF 1106	3 hrs	MAC 1105	3 hrs
PHI 2010	3 hrs	PSY 2012	3 hrs
PSC 1121	3 hrs		
PSC 1121L	1 hr		

**Summer (6 hrs)**

AST 2002	3 hrs
POS 2041	3 hrs

**Sophomore Year**

<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
AMH 2010	3 hrs	AMH 2020	3 hrs
BSC 1005	3 hrs	MAE 2801	4 hrs
EME 2040	3 hrs	STA 2014C	3 hrs
SPC 1600	3 hrs	Arts & Scncs elective	3 hrs
ARH 2050 or MUL 2010 or THE 2000 or FIL 2400	3 hrs	Arts & Scncs elective	3 hrs

**Junior Year**

<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(12hrs)</b>
See Section 3, Semester I above		See Section 3, Semester II, above	

**Summer (9 hrs)**

See Section 3, Summer

**Senior Year**

<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
See Section 3, Semester III above		See Section 3, Semester IV above	

**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 (36+2 hrs)**

- A. Communication Foundations 9 hrs
  - 1. ENC 1101 & ENC 1102
  - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - 1. Select MAC 1105
  - 2. Select STA 2023

- D. Social Foundations 6 hrs
- E. Science Foundations 8 hrs
  - 1. Select PHY 2053C
  - 2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

**2. Common Program Prerequisites (CPP) (6/8 hrs)  
(C or better grades are required in all courses)**

MAC 2253 <i>or</i> MAC 2311	Calculus I	3/4 hrs
MAC 2254 <i>or</i> MAC 2312	Calculus II or equiv	3/4 hrs
PHY 2053C <i>or</i> PHY 2048/L	Physics I/Lab	GEP

**3. Engineering Technology Core Requirements (21 hrs)**

ANT 2511, BSC 1005, BSC 1050, GEO 1200, GEO 2370 <i>or</i> GLY 1030		GEP
ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253 <i>or</i> MAC 2311	Calculus I	CPP
MAP 3401	Problem Analysis or	
MAC 2312	Calculus II	CPP
PHY 2053C	College Physics I	CPP
ETG 3541	Applied Mechanics	3 hrs
ETI 3651C	Computer Applications	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engrng Quality Assurance	3 hrs
ETI 4635	Technology Administration	3 hrs

**4. Technical Specialization (60 hrs)**

**(C or better grades are required in all courses except lower level technical electives)**

**Lower Level Required and Elective Courses (28 hrs)**

EST 3543C	Programmable Logic Controllers	3 hrs
CHM 1032, 1032L	General Chemistry, Lab	4 hrs
CET 2364	Systems Application in C	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
EGN 1111C	Engr Computer Graphics	2 hrs
STA 2023	Statistical Methods I	GEP
Approved Lower Level Technical Electives		11 hrs

**Upper Level Required Courses (21 hrs)**

EST 4502C	Metrology & Instrumentation	4 hrs
ETD 3350C	Applied CADD	3 hrs
ETG 3533C	Applied Engrng Strength of Materials	4 hrs
ETI 3421	Materials & Processes	3 hrs
ETM 4220	Applied Energy Systems	4 hrs
ETI 4448	Applied Project Management	3 hrs

**Upper Level Technical Elective (Select 4) (12 hrs)**

ETC 4206	Construction Estimating	3 hrs
ETC 4241C	Construction Materials & Methods	3 hrs
ETC 4242	Construction Contracts & Specs	3 hrs
ETC 4243	Building Systems	3 hrs
ETC 4414C	Applied Structural Design I	3 hrs
ETC 4415C	Applied Structural Design II	3 hrs
ETM 4331C	Applied Fluid Mechanics	4 hrs
ETM 4512C	Applied Design of Machine Elements	3 hrs
ETI 3418C	Computer Numerical Controls	3 hrs
ETM 4232C	Applied Heat Transfer	4 hrs
ETM 4755	Applied Air Conditioning	4 hrs

**5. Departmental Graduation Requirement (3 hrs)**

**(C or better grades are required in all courses)**

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

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

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

**Graduation: none**

**7. Approved Technical Electives**

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

**8. University Minimum Graduation Requirements**

## UCF Degree Programs

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

**Total Semester Hours Required** **128 hours**

**Related Programs:** Engineering Technology (Operations Concentration).

**Related Minors:** **none**

### Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

### Tentative Schedule for the Design Concentration

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

#### Junior Year

<b>Fall</b>	<b>13/14 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
MAC 2253/2311 Calculus I	3/4	MAP 3401 Problem Analysis	3
ETI 3651C Computer Appl	3	ETM 4220 Energy Systems	4
ETI 3116 App Eng Qual Assur	3	ETI 4635 Tech Admin	3
PHY 2053C/2048 Physics I	4	ETD 3350C Appl CAD	3

#### Summer

	<b>10 hrs</b>
ETC/ETI Elective	3
ETM 4331C Appl Fluid Mech	4
ETI 4448 Applied Proj Mgmt	3

#### Senior Year

<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>17 hrs</b>
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	ETG 3533C Eng Strength of Mat	4
ENC 3241 Tech Report Writ	3	ETI 3671 Tech Econ Anal	3

## ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)

**College of Engineering and Computer Science**  
**Engineering Technology (ENT) Department, ENGR 207**  
<http://www.ent.ucf.edu>

Coordinator: Lucy Morse  
 407-823-4742, Fax: 407-823-4746

**Admission Requirements** **none**

### Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.

- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

### 1. UCF General Education Program (36+2 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101, & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2053C	
2. ANT 2011, BSC 1105, BSC 1050, GLY 1030, GEO 1200 or MCB 1310	

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

**(C or better grades are required in all courses)**

MAC 2253 <i>or</i> Calculus I	3/4 hrs
MAC 2311	
MAC 2254 <i>or</i> Calculus II or equiv	3/4 hrs
MAC 2312	
PHY 2053C <i>or</i> Physics I/Lab	GEP
PHY 2048/L	

### 3. Engineering Technology Core Requirements (21 hrs)

ANT 2511, BSC 1005, BSC 1050, GEO 1200, GEO 2370, <i>or</i> GLY 1030	GEP
ENC 3241 Writing for the Technical Professional	3 hrs
MAC 1105 College Algebra	GEP
MAC 1114 College Trigonometry	3 hrs
MAC 2253 Calculus I <i>or</i>	CPP
MAC 2311	
MAP 3401 Problem Analysis <i>or</i>	CPP
MAC 2312 Calculus II	CPP
PHY 2053C College Physics I	CPP
ETG 3541 Applied Mechanics	3 hrs
ETI 3651C Computer Applications	3 hrs
ETI 3671 Technical Economic Analysis	3 hrs
ETI 3116 Applied Engineering Quality Assurance	3 hrs
ETI 4635 Technology Administration	3 hrs

### 4. Technical Specialization (60 hrs)

**(C or better grades are required in all courses except the lower level technical electives)**

<b>Lower Level Required and Elective Courses</b>	<b>(28 hrs)</b>
EST 3543C Programmable Logic Controllers	3 hrs
CHM 1032, 1032L General Chemistry, Lab	4 hrs
CET 2364 Systems Application in C	3 hrs
EET 3085C Electricity and Electronics	4 hrs
EGN 1111C Engr Computer Graphics	2 hrs
STA 2023 Statistical Methods I	GEP
Approved Lower Level Technical Electives	11 hrs
<b>Upper Level Required Courses</b>	<b>(16 hrs)</b>
ETI 4640 Operations Management	3 hrs
ETD 3350C Applied CADD	3 hrs
ETI 3421 Materials & Processes	3 hrs
ETM 4220 Applied Energy Systems	4 hrs
ETI 4448 Applied Project Management	3 hrs
<b>Upper Level Technical Elective (Select 5)</b>	<b>(17 hrs)</b>
ETI 3690 Technical Sales	3 hrs
ETI 4186 Applied Reliability	3 hrs
ETI 4205 Applied Logistics	3 hrs
ETG 3533C Applied Engrng Strength of Materials	4 hrs
ETI 4661C Applied Facilities Planning & Design	3 hrs
ETI 4700 Occupational Safety	3 hrs
ETI 4502C Metrology & Instrumentation	4 hrs
ETM 4331C Applied Fluid Mechanics	4 hrs
ETI 3418C Computer Numerical Controls	3 hrs

### 5. Departmental Graduation Requirement (3 hrs)

**(C or better grades are required in all courses)**

ETG 4950C Senior Design Project	3 hrs
A grade of 2.0 or better is required for all prerequisites.	

### 6. Foreign Language Requirements (0-8 hrs)

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

**Graduation:** **none**

**7. Approved Technical Electives**

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

**8. University Minimum Graduation Requirements**

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

**Total Semester Hours Required** **128 hours**

**Related Programs:** Engineering Technology (Operations Concentration).

**Related Minors:** **none**

**Transfer Notes:**

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

**Tentative Course Schedule for the Operations Concentration**

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

<b>Junior Year</b>			
<b>Fall</b>	<b>13/14 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
MAC 2253/2311 Calculus I	3/4	MAP 3401 Problem Analysis	3
PHY 2053C/2048 Physics I	4	ETG 3541 Mechanics	3
ETI 3651C Comp Appl	4	ETM 4220 Energy Systems	4
ETI 4640 Operations Mgmt	3	ETI 4635 Tech Admin	3
<b>Summer</b>			
	<b>10 hrs</b>		
ETI 4700 Occup Safety	3		
ETM 4331C Appl Fluid Mech	4		
ETI 4448 Applied Proj Mgmt	3		
<b>Senior Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
ETI 3421 Matr's & Process	3	ENC 3241 Tech Report Writ	3
ETI 4205 App Logistics	3	ETG 4590 Sr Design Proj	3
ETD 3350C Appl CAD	3	ETI Elective	3
ETI 3116 Appl Engr Qual Assur	3	ETG 3533C Eng Strength Mat'ls	4
ETI 3671 Tech Econ Anal	3		

**ENGINEERING TECHNOLOGY -  
SPACE SYSTEMS CONCENTRATION (B.S.E.T.)**

**College of Engineering and Computer Science  
Engineering Technology (ENT) Department  
Florida Space Institute**

**Kennedy Space Center, FL32899**

<http://www.ent.ucf.edu>

**Coordinator:** Dr. Nebil Misconi 407-823-4751 or 321-459-0199

**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** **(36+2 hrs)**

- A. Communication Foundations 9 hrs
  - 1. ENC 1101, ENC 1102
  - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - 1. Select MAC 1105
  - 2. select STA 2023
- D. Social Foundations 6 hrs
- E. Science Foundations 8 hrs
  - 1. Select PHY 2053C or PHY 2048
  - 2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

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

- (C or better grades are required in all courses)**
- MAC 2253 *or* Calculus I 3/4 hrs
- MAC 2311
- MAC 2254 *or* Calc II 3/4 hrs
- MAC 2312 Calc II 3/4 hrs
- PHY 2053C *or* Physics I/Lab GEP
- PHY 2048/L

**3. Engineering Technology Core Requirements** **(24 hrs)**

- AST 2002 Astronomy 3 hrs
- ENC 3241 Writing for the Technical Professional 3 hrs
- MAC 1105 College Algebra GEP
- MAC 1114 College Trigonometry 3 hrs
- MAC 2253 Calculus I *or* CPP
- MAC 2311
- MAP 3401 Problem Analysis *or* CPP
- MAC 2312 Calculus II CPP
- PHY 2053C College Physics I 3 hrs
- ETG 3541 Applied Mechanics 3 hrs
- ETI 3651C Computer Applications 3 hrs
- ETI 3671 Technical Economic Analysis 3 hrs
- ETI 3116 Applied Engineering Quality Assurance 3 hrs
- ETI 4448 Project Management 3 hrs

**4. Technical Specialization** **(57 hrs)**

**(C or better grades are required in all courses except lower level technical electives)**

**Lower Level Required and Elective Courses** **(24 hrs)**

- EST 3543C Prog Logic Controllers 3 hrs
- CHM 1032, 1032L General Chemistry with Lab 4 hrs
- CET 2364 Systems Appl. in C 3 hrs
- EET 3085C Electricity and Electronics 4 hrs
- EGN 1111C Engr Computer Graphics 2 hrs
- STA 2023 Statistical Methods I GEP
- Approved Lower Level Technical Electives 8 hrs

**Upper Level Required and Elective Courses** **(21 hrs)**

- EST 4502C Metrology & Instrumentation 4 hrs
- ETD 3350C Applied CADD 3 hrs
- ETG 3533C Applied Engineering Strength of Materials 4 hrs
- ETM 4220 Applied Energy Systems 4 hrs
- ETI 4835 Rocket Propulsion Technology 3 hrs
- ETI 4836 Space Systems Technology 3 hrs

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

- ETI 4837C Technology of Small Space Payloads 3 hrs
- ETI 4382C Launch Processing Technology 3 hrs
- ETI 4839 Space Electro-Optics Technology 3 hrs
- ETI 4150 Spacecraft QA and Testing 3 hrs
- ETI 4381 Ground System Design 3 hrs
- EST 3222 Intro to Photonics 3 hrs

## UCF Degree Programs

**5. Departmental Graduation Requirement (3 hrs)**  
**(C or better grades are required in all courses)**  
 ETG 4950C Senior Design Project 3 hrs  
 A grade of 2.0 or better is required for all prerequisites.

**6. Foreign Language Requirements (0-8 hrs)**  
**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.  
**Graduation:** none

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

**8. University Minimum Graduation Requirements**

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

**Total Semester Hours Required 128 hours**

**Related Programs:** Engineering Technology (Operations Concentration).

**Related Minors:** none

**Transfer Notes:**

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

**Tentative Course Schedule for the 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 2253/2311 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
EET 3085C Elect & Electronics	4	EST 4502C Metro I Instr	4
ETI 4835 Rocket Prop Tech	3	ETG 4590C Sr Design Proj	3
ETI Elective	3	ETI Elective	3
ETI 4635 Tech Admin	3	ETI Elective	3

## ENGLISH - CREATIVE WRITING (B.A.)

**College of Arts and Humanities**  
**English Department, CNH 301,**  
**<http://english.ucf.edu>**

**E-mail: [english@ucf.edu](mailto:english@ucf.edu)**

T. Krise, 407-823-2212

**Admission Requirements none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit 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

**Admission Requirements none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit cannot be used in the major without prior approval from the department
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

**Honors in English Degree: Additional Requirements(9 hrs)**

Application and admission through the English Honors Committee and the Honors College

Fulfill University requirements for Honors in the Major  
 Grade of ÖÖÖ (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).  
 Successful completion and oral defense of honors thesis

**1. UCF General Education Program (36 hrs)**

A. Communication Foundations	
Select ENC 1101 and ENC 1102	6 hrs
Prefer SPC 1600 Fund of Oral Com	3 hrs
B. Cultural and Historical Foundations	
Select one class from 1.B.1 list	3 hrs
Prefer LIT 2110 World Literature I	3 hrs
Prefer LIT 2120 World Literature II	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics 3 hrs (may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

**2. Common Program Prerequisites**

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

\*See Transfer Notes for possible substitutes

**3. Core Requirements (6 hrs)**

CRW 3013C Creative Writing for English Majors  
 ENG 3014 Theory & Tech of Literary Study  
 This is a prerequisite for all 4000 level AML, ENG, ENL, or LIT courses

**4. Literary History Requirement (12 hrs)**

Choose four courses from these two groupings

a. Select at least one of these pre-1865 literature courses.

AML 3031	American Literature I
AML 3613	Narratives of Slavery
AML 4304	Whitman & Heirs
ENL 2012	English Literature I
ENL 4220	English Renaissance Poetry and Prose
ENL 4230	Eighteenth Century Studies



- ENL 4240 English Romantic Writers
- ENL 4311 Chaucer
- ENL 4333 Shakespeare
- ENL 4341 Milton and His Age
- LIT 4374 Literature of the Bible
- b. Select at least one of these post 1865 literature courses
  - AML 3041 American Literature II
  - AML 3283 Contemp American Women's Fiction
  - AML 3614 Topics in African American Literature
  - AML 3615 Harlem, Haiti, and Havana
  - AML 3640 Native American Literature
  - AML 410 American Novel
  - AML 4153 American Poetry at Mid-Century
  - AML 4155 Modern American Poetry
  - AML 4261 Literature of the South
  - AML 4265 Florida Writers
  - AML 4321 Modern American Literature
  - AML 4630 Latino/Latina Literature
  - ENL 2022 English Literature II
  - ENL 4101 English Novel
  - ENL 4253 The Victorian Age: Poetry
  - ENL 4262 Nineteenth Century British Prose
  - ENL 4273 Modern British Literature
  - LIT 3082 Continental European Fiction Since 1900
  - LIT 3192 Caribbean Literature
  - LIT 4043 Modern Drama as Literature
  - LIT 4184 Irish Literature
  - LIT 4303 Post-World War II Fiction

**Note:** Each semester, additional courses may satisfy this requirement. Check with advisor for details.

### 5. Restricted Electives

**(18 hrs)**

- a. Choose one of the following: 3 hrs
  - LIN 3010 Intro to Linguistics
  - LIN 4100 History of the English Language
  - LIN 4643 Cross Cultural Communication
  - LIN 4660 Linguistics and Literature
  - 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
- b. Choose two of the following: 6 hrs
  - CRW 3120 Fiction Writing Workshop
  - CRW 3211 Creative Nonfiction Writing
  - CRW 3310 Poetry Writing Workshop
- c. Choose two of the following: 6 hrs
  - CRW 4122 Adv Fiction Writing Workshop
  - CRW 4224 Adv Creative Nonfiction Writing
  - CRW 4320 Adv Poetry Writing Workshop
- d. Choose one of the following: 3 hrs
  - CRW 3311 Structure of Verse
  - CRW 3610 Writing Scripts
  - CRW 3540 Literary Magazines
  - CRW 4114 History of Prose Style

or any 3000 or 4000 CRW course not used to fulfill another requirement

### 6. Departmental Exit Requirements

Maintain a minimum GPA of 2.0 in upper division required courses  
Computer Competency met by completion of CRW 3013

### 7. Foreign Language Requirements

**(0-8 hrs)**

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

### 8. Electives

**(variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed

- 30 of the last 36 hours of course work must be completed in 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:** Linguistics, Technical Writing, Writing

#### Transfer Notes:

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

**Acceptable Substitutes** for common program prerequisites to the BA in Creative Writing if taken prior to transferring to UCF:  
ENC 1101\* & 1102\*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

#### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Freshman Year

Fall	Spring
ENC 1101 Composition I	3 CHM 1020* req# 1E1-GEP
HUM 2210* req# 1B1-GEP	3 ENC 1102 Composition II
MGF 1106* req# 1C1-GEP	3 LIT 2110 World Literature I
POS 2041* req# 1D1-GEP	3 STA 1060C Stat Using Excel
SPC 1600* req# 1A3-GEP	3 SPN 1120* req# Lang/Elect

#### Sophomore Year

Fall	Spring
BSC 1005* req# 1E2-GEP	3 CRW 3013 Creatv Wr Eng Maj
LIT 2120 World Lit II	3 AML 3031* req# 4a-LitHis
PSY 2012* req# 1D2-GEP	3 ENL 2012* req# 4a-LitHis
Elective* Check restrictions	3 Elective* Check restrictions
SPN 1121* req# Lang/Elect	4 SPN 2200* req# Lang/Elect

#### Junior Year

Fall	Spring
ENG 3014 Theor Tech of St	3 ENL 2022* req# 4b-LitHis
AML 3041* req# 4b-LitHis	3 CRW 3120* req# 5b-ResEl
CRW 3211* req# 5b-ResEl	3 CRW 4224* req# 5c-ResEl
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

#### Senior Year

Fall	Spring
LIN 4100* req# 5a-ResEl	3 CRW 3610* req# 5d-ResEl
CRW 4122* req# 5c-ResEl	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

## 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](mailto:dousley@mail.ucf.edu)

#### Admission Requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

# UCF Degree Programs

## Degree Requirements:

- Students should see an advisor prior to registering for classes
- 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 3 hrs
  - ENC 1102 Composition II 3 hrs
  - Select SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundations (9 hrs)
- Select AMH 2010 U.S. History 1492-1877 3 hrs
  - Select AMH 2020 U.S. History 1877-Present 3 hrs
  - Select PHI 2010 Introduction to Philosophy 3 hrs
- C. Mathematical Foundations (6 hrs)
- Prefer 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)
- Prefer POS 2041 American National Government 3 hrs
  - Select PSY 2012 General Psychology 3 hrs
- E. Science Foundations (6 hrs)
- Prefer 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 2050 History of Western Art I *or*
  - ARH 2051 History of Western Art II *or*
  - MUL 2010 Enjoyment of Music *or*
  - THE 2000 Theatre Survey *or*
  - FIL 2400 History of Motion Pictures
- C. Mathematics (9 hrs)
- MAC 1105 College Algebra 3 hrs
  - MGF 1106 Finite Mathematics GEP
  - One of the following (per GEP) GEP
  - STA 1060C Basic Statistics using MS Excel *or*
  - STA 2014C Principles of Statistics
- D. Social Science/History (12 hrs)
- AMH 2010 U.S. History 1492-1877 GEP
  - AMH 2020 U.S. History 1877-Present GEP
  - POS 2041 American National Government GEP
  - PSY 2012 General Psychology GEP
- E. Science (9 hrs + lab)
- PSC 1121 Physical Science GEP
  - One of the following (per GEP) GEP
  - ANT 2511 The Human Species *or*
  - BSC 1005 Biological Principles 3 hrs
  - Select one: 3 hrs
  - AST 2002 Astronomy *or*
  - GEO 1200 Physical Geography *or*
  - GLY 1030 Geology and its Applications
  - Select one associated science lab: 1 hr
  - BSC 1005L Biological Principles Laboratory *or*
  - 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 (6 hrs)
- LIT 2110 World Literature I 3 hrs
  - ENL 2012 English Literature I to 1798 3 hrs

### 3. Specialization Requirements (24 hrs)

- ENL 2012 English Literature I to 1798 CPP
- ENL 2022 English Literature II to 1950 3 hrs
- LIT 2110 World Literature I CPP
- LIT 2120 World Literature II 3 hrs
- AML 3031 American Literature I 3 hrs
- AML 3041 American Literature II 3 hrs

- CRW 3013 Intro Creative Writing 3 hrs
- ENC 3311 Advanced Expository Writing 3 hrs
- LIN 4680 Modern English Grammar 3 hrs
- ENG 3014 Theories of Literature 3 hrs

### 4. Education Core Requirements (15 hrs)

- \*EDG 4323 Professional Teaching Practices 3 hrs
- EDF 4603 Analysis of Critical Issues in Education 3 hrs
- \*EDF 4214 Classroom Learning Principles 3 hrs
- \*TSL 4080 Theory and Practice of Teaching ESOL Students in Schools 3 hrs
- T SL 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 Lang/Comp 3 hrs

### 6. Internship I (ESE 3940) (3 hrs)

- Course prerequisite: EDG 4323 (Minimum grade: "C-")\*
- Additional program prerequisites for Internship I: EDG 4323, EDF 4214, LAE 4464, TSL 4080 (Minimum grade: "C-" in each of these courses)\*
- Corequisites: LAE 4360 and LAE 4342
- See additional requirements under College of Education, Office of Clinical Experiences

### 7. Internship II (ESE 4943) (12 hrs)

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

### 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 a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

### 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned 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

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 12. Recommended Four-Year Sequence of Courses

Freshman Year			
Fall	(12 hrs)	Spring	(16 hrs)
EDF 2005	3 hrs	EDG 2701	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MGF 1106	3 hrs	MAC 1105	3 hrs

PSY 2012	3 hrs	PHI 2010	3 hrs
		PSC 1121	3 hrs
		PSC 1121L	1 hr
<b>Summer</b>	<b>(6 hrs)</b>		
EME 2040	3 hrs		
POS 2041	3 hrs		
<b>Sophomore Year</b>			
<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(15 hrs)</b>
AMH 2010	3 hrs	AMH 2020	3 hrs
BSC 1005	3 hrs	AST 2002	3 hrs
LIT 2110	3 hrs	ENL 2012	3 hrs
SPC 1600	3 hrs	LIT 2120	3 hrs
STA 2014C	3 hrs	ARH 2050 or MUL2010 or THE 2000 or FIL 2400	3 hrs
<b>Summer</b>	<b>(6 hrs)</b>		
AML 3031	3 hrs		
ENL 2022	3 hrs		
<b>Junior Year</b>			
<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(12hrs)</b>
CRW 3013	3 hrs	AML 3041	3 hrs
TSL 4080	3 hrs	ENC 3311	3 hrs
EDF 4214	3 hrs	LAE 4361	3 hrs
EDG 4323	3 hrs	EDF 4603	3 hrs
LAE 4464	3 hrs		
<b>Summer</b>	<b>(6 hrs)</b>		
ENG 3014	3 hrs		
LIN 4680	3 hrs		
<b>Senior Year</b>			
<b>Fall</b>	<b>(13 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
ESE 3940	3 hrs	ESE 4943	12 hrs
LAE 4360	3 hrs		
LAE 4342	4 hrs		
TSL 4141	3 hrs		

**ENGLISH - LITERATURE (B.A.)**

**College of Arts and Humanities**

**English Department, CNH 301,**

**<http://english.ucf.edu>**

**E-mail: [english@ucf.edu](mailto:english@ucf.edu)**

T. Krise, 407-823-2212

**Admission Requirements**

**none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit is not accepted in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

**Honors in English Degree:**

**Additional Requirements (9 hrs)**

Application and admission through the English Honors Committee and the Honors College

Fulfill University requirements for Honors in the Major

Grade of ÖBÖ (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).

Successful completion and oral defense of honors thesis

**1. UCF General Education Program (36 hrs)**

- A. Communication Foundations
  - Select ENC 1101 and ENC 1102 6 hrs
  - Prefer SPC 1600 Fund of Oral Com 3 hrs
- B. Cultural and Historical Foundations
  - Select one class from 1.B.1 list 3 hrs
  - Prefer LIT 2110 World Literature I 3 hrs
  - Prefer LIT 2120 World Literature II 3 hrs

- C. Mathematical Foundations
  - Select MGF 1106 Finite Mathematics (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**

- ENC 1101\*Composition I GEP
- ENC 1102\*Composition II GEP
- \*See Transfer Notes for possible substitutes

**3. Core- Gateway Courses (6 hrs)**

- a. Prerequisite for all 4000 level AML, ENG, ENL, or LIT courses 3 hrs
- ENG 3014Theory & Tech of Literary Study
- b. Choose one gateway course: 3 hrs
- CRW 3013Creative Writing for English Majors
- ENC 3211Theory & Practice of Tech Writing

**4. Literary History Requirement (15 hrs)**

Choose five courses from the two groupings

- a. Select at least two of these pre-1865 literature courses.
  - AML 3031 American Literature I
  - AML 3613 Narratives of Slavery
  - AML 4304 Whitman & Heirs
  - ENL 2012 English Literature I
  - ENL 4220 English Renaissance Poetry and Prose
  - ENL 4230 Eighteenth Century Studies
  - ENL 4240 English Romantic Writers
  - LIT 4374 Literature of the Bible
- b. Select at least two of these post 1865 literature courses
  - AML 3041 American Literature II
  - AML 3283 Contemp American Women's Fiction
  - AML 3614 Topics in African American Literature
  - AML 3615 Harlem, Haiti, and Havana
  - AML 3640 Native American Literature
  - AML 4101 American Novel
  - AML 4153 American Poetry at Mid-Century
  - AML 4155 Modern American Poetry
  - AML 4261 Literature of the South
  - AML 4265 Florida Writers
  - AML 4321 Modern American Literature
  - AML 4630 Latino/Latina Literature
  - ENL 2022 English Literature II
  - ENL 4101 English Novel
  - ENL 4253 The Victorian Age: Poetry
  - ENL 4262 Nineteenth Century British Prose
  - ENL 4273 Modern British Literature
  - LIT 3082 Continental European Fiction Since 1900
  - LIT 3192 Caribbean Literature
  - LIT 4043 Modern Drama as Literature
  - LIT 4184 Irish Literature
  - LIT 4303 Post-World War II Fiction

**Note:** Each semester, additional courses may satisfy this requirement. Check with advisor for details.

**5. Upper Division Requirements (15 hrs)**

- a. Choose one single author or major author course 3 hrs
- Note:** Each semester, additional courses may satisfy this requirement. Check with advisor for details.
  - AML 4300 Major American Authors
  - ENL 4311 Chaucer
  - ENL 4341 Milton
  - ENL 4333 Shakespeare
- b. Choose one linguistics or theory course: 3 hrs
  - ENG 3010 Practical Criticism
  - LIN 3010 Principles of Linguistics
  - LIN 4100 History of the English Language
  - LIN 4643 Cross Cultural Communication
  - LIN 4660 Linguistics and Literature
  - LIN 4680 Modern English Grammar
  - LIT 4554 Advanced Feminist Theory
- c. Choose three upper level courses : 9 hrs
- AML, ENL, or LIT prefix

**6. Departmental Exit Requirements**

Maintain a minimum GPA of 2.0 in upper division required courses. Computer Competency met by completion of ENG 3014.

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

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to three semesters of college

## UCF Degree Programs

instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

### 8. Electives (variable)

Select primarily from upper level courses, with departmental advisor approval. May be outside of the department

### 9. University Minimum Exit Requirements

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

**Total Semester Hours Required** 120 hours

**Related Programs:** Creative Writing, Technical Writing

**Related Minors:** Creative Writing, Linguistics, Technical Writing, Writing

#### Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites to the BA in Literature if taken prior to transferring to UCF:

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

#### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Freshman Year

Fall		Spring	
ENC 1101 Composition I	3	CHM 1020* req# 1E1-GEP	3
HUM 2210* req# 1B1-GEP	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	LIT 2110 World Literature I	3
POS 2041* req# 1D1-GEP	3	STA 1060C Stat Using Excel	3
SPC 1600* req# 1A3-GEP	3	SPN 1120* req# Lang/Elect	4

#### Sophomore Year

Fall		Spring	
BSC 1005* req# 1E2-GEP	3	ENG 3014 Theor Tech of St	3
LIT 2120 World Lit II	3	AML 3031* req# 4a-Hist	3
PSY 2012* req# 1D2-GEP	3	AML 3041* req# 4b-His	13
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1121* req# Lang/Elect	4	SPN 2200* req# Lang/Elect	3

#### Junior Year

Fall		Spring	
CRW 3013* req# 3-Core	3	ENL 2012* req# 4a-Hist	3
ENL 2022* req# 4b-Hist	3	AML 4261* req# 4b-Hist	3
LIN 4100* req# 5b-UD	3	ENL 4333* req# 5a-UD	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

#### Senior Year

Fall/Spring			
AML 4101* req# 5c-UD	3	LIT 3383* req# 5c-UD	3
ENL 4253* req# 5c-UD	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	4
Elective* Check restrictions	3		

## ENGLISH - TECHNICAL WRITING (B.A.)

College of Arts and Humanities

English Department, CNH 301

<http://english.ucf.edu>

E-mail: [english@ucf.edu](mailto:english@ucf.edu)

T. Krise, 407-823-2212

### Admission Requirements

none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### Honors in English Degree: Additional Requirements (9 hrs)

- Application and admission through the English Honors Committee and the Honors College
- Fulfill University requirements for Honors in the Major
- Grade of "B" (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	6 hrs
Select ENC 101, ENC 102	3 hrs
Prefer SPC 1600 Fund of Oral Com	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites

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

\*See Transfer Notes for possible substitutes

### 3. Core courses-Basic (6 hrs)

Choose one of the following:	3 hrs
ENC 3211 Theory & Practice of TechWriting	
OR	
ENC 3241 Writing for the Technical Professional	
Choose one of the following:	3 hrs
ENG 3014 Theory & Tech of Literary Study	
OR	
CRW 3013 Creative Writing for English Majors	

### 4. Literary History Requirement (9 hrs)

Choose three courses from these two groupings

a. Select at least one of these pre-1865 literature courses.

AML 3031	American Literature I
AML 3613	Narratives of Slavery
AML 4304	Whitman & Heirs
ENL 2012	English Literature I
ENL 4220	English Renaissance Poetry and Prose
ENL 4230	Eighteenth Century Studies
ENL 4240	English Romantic Writers
ENL 4311	Chaucer
ENL 4333	Shakespeare
ENL 4341	Milton and His Age
LIT 4374	Literature of the Bible

b. Select at least one of these post 1865 literature courses

AML 3041	American Literature II
AML 3283	Contemp American Women's Fiction
AML 3614	Topics in African American Literature
AML 3615	Harlem, Haiti, and Havana
AML 3640	Native American Literature

AML 4101	American Novel
AML 4153	American Poetry at Mid-Century
AML 4155	Modern American Poetry
AML 4261	Literature of the South
AML 4265	Florida Writers
AML 4321	Modern American Literature
AML 4630	Latino/Latina Literature
ENL 2022	English Literature II
ENL 4101	English Novel
ENL 4253	The Victorian Age: Poetry
ENL 4262	Nineteenth Century British Prose
ENL 4273	Modern British Literature
LIT 3082	Continental European Fiction Since 1900
LIT 3192	Caribbean Literature
LIT 4043	Modern Drama as Literature
LIT 4184	Irish Literature
LIT 4303	Post-World War II Fiction

**Note:** Each semester, additional courses may satisfy this requirement. Check with advisor for details.

Choose three of the following:	9 hrs
ENL 2012	English Literature I
ENL 2022	English Literature II
AML 3031	American Literature I
AML 3041	American Literature II

#### 45. Core requirements-Advanced (18 hrs)

ENC 4280	Technical Writing Style	3 hrs
ENC 3311	Advanced Expository Writing	3 hrs
ENC 4293	Technical Documentation Documentation and the Collaborative Process	3 hrs
ENC 4294	Technical Documentation II Documentation and Client-Based Collaboration	3 hrs
ENC 4295	Technical Documentation III Capstone Experience in Technical Writing	3 hrs
ENC 4215	Techniques of Tech Publication	3 hrs
ENC 4218	Visual Elements in Documentation	3 hrs
ENC 4280	Technical Writing Style	3 hrs
LIT 4433	Technical and Sci Literature The Literature of Science and Technology	3 hrs

And choose one of the following:		
ENC 4215	Technical Publication and Project Management	3 hrs
ENC 4218	The Visual in Technical Communication	3 hrs

#### 56. Restricted Upper Division Electives (3 hrs)

Choose one of the following:	
ENC 3313	Advanced Expository Writing
ENC 4262	International Technical Communication
ENC 4265	Writing for the Computer Industry
ENC 4290	Usability Testing for Technical Communication
ENC 4414	Studies in Writing and Hypertext
ENC 4xxx	Contemporary Critical Issues in Technical Writing
ENC 4262	International Technical Communication
ENC 4265	Writing for the Computer Industry
Optional course	
ENC 4941	Tech Writing & Editing Internship

#### 67. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses
- Computer Competency met by completion of ENC 4293

#### 78. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

## ENVIRONMENTAL ENGINEERING (B.S.Env.E.)

**College of Engineering and Computer Science  
Civil & Environmental Engineering Department (CEE),  
ENG2 211, 407-823-2841, Fax: 407-823-3315,  
<http://www.cee.engr.ucf.edu>**

*Undergraduate Coordinator and Academic Advisor:* Carol Ann Pohl,  
E-Mail: cpohl@mail.ucf.edu

*Associate Chair:* Shiou-San Kuo, Ph.D. P.E., E-Mail:

*Environmental Program Coordinator:* C. David Cooper, Ph.D., P.E.,  
E-mail: cooper@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 (36+2 hrs)

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

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Prefer ECO 2013 or ECO 2023.	
2. ANT 2000, PSY 2012, or SYG 2000.	
E. Science Foundations	7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)	
2. Prefer GEO 1200	
(Note: Environmental Engineering Majors must satisfy both an Earth Science requirement AND a Biological Science requirement).	

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L	Chemistry Fundamentals I	4 hrs
MAC 2311	Calculus with Analytic Geometry I	4 hrs
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	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 <i>or</i> Social Sciences		GEP

#### 3. Courses Required for the Major (57 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
CHM 2046/46L	Chemistry Fundamentals II w/Lab	4 hrs
	Earth Science	GEP
	Biological Science	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3331	Mechanics of Materials	3 hrs

# UCF Degree Programs

EGN 3343	Thermodynamics	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
EGN 3373	Principles of Electrical Engnrng	3 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
ENV 3001	Intro to Environmental Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
CWR 3201	Engineering Fluid Mechanics	3 hrs
CWR 4101C	Hydrology	3 hrs
CWR 4203C	Hydraulics	3 hrs
EES 4111C	Biological Process Control	3 hrs
EES 4202C	Chemical Process Control	3 hrs
ENV 4120	Air Pollution Control	3 hrs
ENV 4341	Solid Waste Management	3 hrs
ENV 4561	Environmental Engnrng-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 (8 hrs)

Technical electives are available in the BSEnvE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

#### 5. Departmental Graduation Requirements (6 hrs)

- Approved EnvE Design Course I 3 hrs
- Approved EnvE Design Course II 3 hrs
- Earn a minimum graduating GPA of 2.250 in the Major Courses from item 3. above, the technical electives from item 4. above, and the Approved EnvE Design Courses.
- EnvE students must take the Fundamentals of Engineering Exam during their Senior year.

#### 6. Foreign Language Requirements (0-8 hrs)

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

**Graduation:** none

#### 7. University Minimum Graduation Requirements

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

**Total Semester Hours Required:** 128 hrs

**Related Programs:** Chemistry, Civil Engineering.

**Related Minors:** Chemistry, Environmental Studies, Mathematics, Engineering Leadership & Management.

#### Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

#### Tentative Course Schedule for Entering Freshmen

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

#### Environmental Engineering - 128 semester hours required

FIRST YEAR				
Fall	14 hrs <sup>1</sup>	Spring	15 hrs <sup>1</sup>	
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3	
*MAC 2311 Calc w/Analy Geo I	4	*MAC 2312 Calc w/Anal Geo II	4	
*ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3	*PHY 2048/L Phys Engr I w/lab	4	
		*Earth Science	3	

*SPC 1016 Tech Presentations	3	EGN 1007C Eng Conc & Meth	1
EGN 1006C Intro to Engr	1		

#### SECOND YEAR

Fall	16 hrs <sup>1</sup>	Spring	17 hrs <sup>1</sup>
*MAC 2313 Calc w/Analy Geo III	4	*MAP 2302 Diff Equations	3
*CHM 2045C Chemistry Funds I	4	*CHM 2046/L Chem Fund II/lab	4
*HUM/AMH/EUH I	3	*PHY 2049/L Phys Engr&Sci II	4
EGN 3310 Engr Anal-Statics	3	*HUM/AMH/EUH II	3
EGN 3613 Eng'ring Econ Anal	2	EGN 3321 Engr Anal-Dynamics	3

#### Summer

	9 hrs <sup>1</sup>
*Biological Science	3
EGN 3343 Thermodynamics	3
ENV 3001 Intro to Environ Eng	3

#### THIRD YEAR

Fall	15 hrs	Spring	15 hrs <sup>1</sup>
CWR 3201 Engr Fluid Mech	3	CWR 4101C Hydrology	3
EGN 3331 Mech of Materials	3	CWR 4203C Hydraulics	3
STA 3032 Probly/Stats for Eng	3	ENV 4120 Air Pollution Contrl	3
ENV 4341 Solid/Haz Waste	3	*Cultural/Historical Elective	3
CCE 4003 Intro to Constr Indus	3	EGN 3373 Prin Elec Eng	3

#### FOURTH YEAR

Fall	13 hrs	Spring	14 hrs
Technical Elective	3	Approved Proj Design Course	3
ENV 4561 Process Design	4	EES 4111C Biologcl Proc Cntrl	3
EES 4202C Chmcl Proc Control	3	Technical Elective	3
Approved Proj Design Course	3	Technical Elective	2
		*ANT/PSY/SYG	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.

#### BS to PhD Program

The Environmental Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

## ENVIRONMENTAL STUDIES TRACK

See Liberal Studies - Environmental Studies Track

## EVENT MANAGEMENT (B.S.)

Rosen College of Hospitality Management

9907 Universal Boulevard

Orlando, Florida 32819

407-903-8000

<http://www.hospitality.ucf.edu>

E-mail: [hospitality@mail.ucf.edu](mailto: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 CGS 2100CC 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 Event Degree Requirements (6 hours)

HFT 1000	Introduction to Hospitality Management	3 hrs
HFT 2750	The Event Industry	3 hrs

#### 3. Hospitality Management Core (25 hours)

## UCF Degree Programs

HFT 2403	Hospitality Financial Accounting	3 hrs
HFT 2500	Hospitality Marketing	3 hrs
HFT 2220	Hospitality Human Resources	3 hrs
HFT 2254	Lodging Operations	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 3540	Guest Services Management	3 hrs
HFT 4286	Hospitality Communications	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 3933	Distinguished Hospitality Lectures	1 hr

#### 4. Practicum (3 hours)

HFT 3940	Internship I	1 hr
HFT 4941	Internship II	1 hr
HFT 4944	Internship III	1 hr

#### 5. Event Management Core (24 hours)

HFT 3670	Hospitality & Event Risk Management	3 hrs
HFT 3512	Event Promotion	3 hrs
HFT 3443	Event Technology	3 hrs
HFT 3792	Event Design & Production	3 hrs
FSS 2221C	Quantity Food Production	3 hrs
HFT 3802	Catering Management	3 hrs
HFT 3757	Event Management I	3 hrs
HFT 4791	Event Management II	3 hrs

#### 6. Restricted Electives (15 hours)

Choose any courses from the list below for a total of 15 credit hours

HFT 3741	Meeting Management	3 hrs
HFT 4754	Exhibit and Trade Show Operations	3 hrs
HFT 3511	Convention Sales	3 hrs
HFT 4753	Convention Services	3 hrs
HFT 4795	Entertainment Arts and Events	3 hrs
HFT 4XXX	Fairs and Festivals	3 hrs
HFT 4XXX	Destination Marketing	3 hrs
HFT 4XXX	Destination Management	3 hrs
HFT 4XXX	International Events	3 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. 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)

#### 9. 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 College of Hospitality Management.
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the event 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 EVENT MANAGEMENT\*

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

Freshman Year			
Fall	15 Hrs	Spring	15 Hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
Cult/Hist Found Seq. I	3 hrs	SPC 1600C	3 hrs

CGS 2100CC	3 hrs	Cult/Hist Found Seq. II	3 hrs
HFT 1000	3 hrs	MAC 1105	3 hrs
PSY 2013, SYG 2000 or ANT 2000	3 hrs	HFT 2750	3 hrs

#### Sophomore Year

Fall	15 hrs	Spring	15 hrs
Science Found I	3 hrs	Science Found II	3 hrs
ECO 2013 or ECO 2023	3 hrs	HFT 2220	3 hrs
HFT 2500	3 hrs	HFT 2403	3 hrs
HFT 3XXX Event Tech	3 hrs	Cult/Hist Foundation	3 hrs
3XXX Hos & Evnt Risk	3 hrs	3XXX Event Promo	3 hrs

#### Junior Year

Fall	16 hrs	Spring	16 hrs
HFT 3XXX Evt Design	3 hrs	HFT 3802	3 hrs
FSS 2221C	3 hrs	HFT 4286	3 hrs
HFT 3431	3 hrs	HFT 4462	3 hrs
HFT 2254	3 hrs	HFT 3942	1 hr
HFT 3940	1 hr	Hosp Event Elective	3 hrs
HFT 3540	3 hrs	Hosp Event Elective	3 hrs

#### Senior Year

Fall	13 hrs	Spring	15 hrs
HFT 3757	3 hrs	HFT 4XXX Evt Mgmt II	3 hrs
HFT 4941	3 hrs	HFT 3933	3 hrs
Hosp Event Elective	3 hrs	Hosp Event Elective	3 hrs
Free electives	6 hrs	Hosp Event Elective	3 hrs
		Free electives	5 hrs

### EXCEPTIONAL STUDENT EDUCATION (B.S.)

#### College of Education

#### Department of Child, Family and Community Sciences ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Lee Cross

ED 315-N, 407-823-5477

E-mail: [lcross@mail.ucf.edu](mailto: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 all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete common program prerequisite courses

#### Degree Requirements:

- Students should consult with an advisor prior to registration
- Students must earn at least a "C" 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
Select SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations*	(9 hrs)	
Select AMH 2010	U.S. History 1492-1877	3 hrs
Select AMH 2020	U.S. History 1877-Present	3 hrs
Select PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations*	(6 hrs)	
Select 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)	
Prefer POS 2041	American National Government	3 hrs
Select PSY 2012	General Psychology	3 hrs
E. Science Foundations	(6 hrs)	
Prefer 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)

# UCF Degree Programs

A. Communications		(9 hrs)
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
B. Humanities		(6 hrs)
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	The History of Art I <i>or</i>	
ARH 2051	The History of Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 2400	History of Motion Pictures	
C. Mathematics		(9 hrs)
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following (per GEP)		GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Science/History		(12 hrs)
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science		(9 hrs + lab)
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		1 hr
BSC 1005L	Biological Principles Laboratory <i>or</i>	
PSC 1121L	Physical Science Laboratory	
F. Education Common Program Prerequisites		(9 hrs)
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
G. Diversity Courses		GEP
H. Other Program Prerequisites		(6 hrs)
Students must select an additional six hours in courses in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.		

<b>3. Exceptional Education</b>		<b>(7 hrs)</b>
<b>Preprofessional Requirements</b>		
*EEX 2010	Orientation to Special Education	3 hrs
MAE 2801	Elementary School Mathematics	4 hrs

<b>4. Education Core Requirements:</b>		<b>(9 hrs)</b>
*EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs

### Internship I Prerequisites:

The following courses must be taken before registering for Internship I.

#### I. Students must be recommended by the faculty for Internship I.

*EDG 4323	Professional Teaching Practices	3 hrs
*RED 3012	Basic Foundations of Reading	3 hrs
*EEX 2010	Introduction to Special Education	3 hrs
*EEX 3241	Methods of Academic Skills Ex Ed	3 hrs
*TSL 4080	Theory and Practice of Teaching ESOL	3 hrs

<b>5. Specialization Core Requirements</b>		<b>(33 hrs)</b>
*RED 3012	Basic Foundations of Reading	3 hrs
RED 4519	Diagnostic and Corrective Reading	3 hrs
RED 4043	Content Reading K-12	3 hrs
LAE 4314	Language Arts in Elem. Schools	3 hrs
*TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
TSL 4141	Issues in Second Language Acquisition	3 hrs
*EEX 3241	Methods of Academic Skills for Ex Students	3 hrs
EEX 3221	Assessment of Ex Students	3 hrs
EEX 4601	Intro to Behavior Management	3 hrs
EEX 3243	Techniques for Ex Adolescents and Adults	3 hrs
EEX 4753	Parent Professional Collaboration	3 hrs

\*Internship I Prerequisites

<b>6. Specialization</b>		
<i>Special Education</i>		
EEX 4054	Application and Theories for Students	(5 hrs) 2 hrs

EEX 4066	with Special Needs Curriculum and Instructional Strategies for Special Needs Students	3 hrs
<b>7. Foreign Language Requirements (0-8 hrs)</b>		
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.)		
<b>8. Departmental Exit Requirements</b>		
<ul style="list-style-type: none"> <li>■ Achieve a minimum 2.5 GPA in all courses within the major.</li> <li>■ Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.</li> <li>■ Complete a TESOL notebook as required for ESOL Endorsement.</li> <li>■ Pass all applicable sections of the Florida Teacher Certification Examination.</li> </ul>		
<b>9. University Minimum Exit Requirements</b>		
<ul style="list-style-type: none"> <li>■ A 2.0 UCF GPA</li> <li>■ 60 semester hours earned after CLEP awarded</li> <li>■ 48 semester hours of upper division credit completed</li> <li>■ 30 of the last 36 hours of course work must be completed in residency at UCF</li> <li>■ 25% of course work must be completed in residency at UCF</li> <li>■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)</li> </ul>		
<b>10. Total Semester Hours Required</b> <span style="float: right;"><b>127 hrs</b></span>		

Internship Requirements  
EEX 3842 Internship I 3 hrs  
EEX 4941 Internship II 9 hrs

- 11. Recommended Four-Year Sequence of Courses**
- |  |                 |   |                 |
|--|-----------------|---|-----------------|
| <b>Freshman Year</b>                       |                 |   |                 |
| <b>Fall</b>                                | <b>(12 hrs)</b> | <b>Spring</b>   | <b>(16 hrs)</b> |
| EDF 2005                                   | 3 hrs           | EDG 2701  | 3 hrs           |
| ENC 1101                                   | 3 hrs           | ENC 1102  | 3 hrs           |
| MGF 1106                                   | 3 hrs           | MAC 1105  | 3 hrs           |
| PSY 2012                                   | 3 hrs           | PHI 2010  | 3 hrs           |
|  |                 | PSC 1121  | 3 hrs           |
|  |                 | PSC 1121L   | 1 hr            |
| <b>Summer</b> <b>(6 hrs)</b>               |                 |   |                 |
| EME 2040                                   | 3 hrs           |   |                 |
| POS 2041                                   | 3 hrs           |   |                 |
| <b>Sophomore Year</b>                      |                 |   |                 |
| <b>Fall</b>                                | <b>(15 hrs)</b> | <b>Spring</b>   | <b>(16 hrs)</b> |
| AMH 2010                                   | 3 hrs           | AMH 2020  | 3 hrs           |
| BSC 1005                                   | 3 hrs           | AST 2002  | 3 hrs           |
| SPC 1600                                   | 3 hrs           | *EEX 2010   | 3 hrs           |
| STA 2014C                                  | 3 hrs           | MAE 2801  | 4 hrs           |
| Select one Arts & Sciences elective        | 3 hrs           | Select one of the following Fine Arts courses: ARH 2050; ARH 2051; MUL 2010; THE 2000; FIL 2400 | 3 hrs           |
| <b>Summer</b> <b>(6 hrs)</b>               |                 |   |                 |
| *TSL 4080                                  | 3 hrs           |   |                 |
| Select one Arts & Sciences elective course | 3 hrs           |   |                 |
| <b>Junior Year</b>                         |                 |   |                 |
| <b>Fall</b>                                | <b>(12 hrs)</b> | <b>Spring</b>   | <b>(14 hrs)</b> |
| EDG 4323*                                  | 3 hrs           | EEX 3243  | 3 hrs           |
| EDF 4214**                                 | 3 hrs           | RED 4043  | 3 hrs           |
| EEX 3241*                                  | 3 hrs           | EEX 4054  | 2 hrs           |
| RED 3012*                                  | 3 hrs           | LAE 4314  | 3 hrs           |
|  |                 | TSL 4141  | 3 hrs           |
| <b>Summer</b> <b>(6 hrs)</b>               |                 |   |                 |
| EDF 4603                                   | 3 hrs           |   |                 |
| EEX 4066                                   | 3 hrs           |   |                 |



Senior Year			
Fall	(12 hrs)	Spring	(12 hrs)
EEX 3842	3 hrs	EEX 4941	9 hrs
EEX 4601++	3 hrs	EEX 4753+	3 hrs
EEX 3221	3 hrs		
RED 4519	3 hrs		
+ Must be taken with Internship I			
++ Must be taken with Internship I			
* Must be completed before enrolling in Internship I			
** Recommended for completion before Internship I			

## FILM - B.F.A.

### College of Arts and Humanities

#### School of Film and Digital Media

Film Division, COM 121, 407-823-3456

<http://www.film.ucf.edu>

E-mail: film@mail.ucf.edu

Division Head: S. Schlow, 407-823-0694

#### Limited Access Program

##### Admission Requirements

- The Film BFA major is a limited access program.
- Entrance into most Film classes is restricted to majors. Exceptions must be approved by Division Head.
- Applications to become a Film BFA major are required by December 15 for admission to the subsequent Fall term
- A portfolio review is required for entry into the Film BFA major. Contact the Film Division for details.

##### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of "B" (3.0) or better in Film major courses.
- Continuation in the Film Program requires a positive annual evaluation.
- A maximum of three credit hours of internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- Students must consult with a departmental advisor each semester.
- All students are required to pay a fee for equipment insurance.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Due to the conservative nature, the BFA demands a closely integrated curriculum. Therefore, transfers are not generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System may be admitted.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### 1. UCF General Education Program (36 hrs)

- |   |       |
|---|-------|
| A. Communication Foundations                | 9 hrs |
| B. Cultural and Historical Foundations      |       |
| Prefer one class from 1.B.1 list            | 3 hrs |
| Prefer FIL 2400                             | 3 hrs |
| Prefer one class from either 1.B.1 or 1.B.2 | 3 hrs |
| C. Mathematical Foundations                 |       |
| Select MGF 1106                             | 3 hrs |
| (may substitute a higher level math)        |       |
| Prefer CGS 1060C <i>or</i>                  | 3 hrs |
| STA 1060C                                   |       |
| D. Social Foundations                       | 6 hrs |
| E. Science Foundations                      | 6 hrs |

#### 2. Common Program Prerequisites (3 hrs)

- |           |                                |       |
|-----------|--------------------------------|-------|
| FIL 2400* | History of the Motion Pictures | GEP   |
| FIL1007   | Foundations of Story           | 3 hrs |

\*See transfer notes for possible substitutions

#### 3. Lower Level Core Requirements (18 hrs)

- |           |                                 |       |
|-----------|---------------------------------|-------|
| FIL 2107  | Script Analysis                 | 3 hrs |
| FIL 1009  | Cinematic Expression for Majors | 3 hrs |
| FIL 2274C | Editing I                       | 3 hrs |
| FIL 2220  | Directing I                     | 3 hrs |
| FIL 2200  | Cinematography I                | 3 hrs |

- |   |                             |       |
|---|-----------------------------|-------|
| FIL 2221  | Acting for Film I           | 3 hrs |
| <b>4. Upper Level Core Requirements (42 hrs)</b>    |                             |       |
| DIG 3001  | Digital Media Principles    | 3 hrs |
| FIL 3124  | Short Script I              | 3 hrs |
| FIL 3201C   | Intro to Film Production    | 3 hrs |
| FIL 3297  | Sound Design I              | 3 hrs |
| FIL 3401  | Film History I              | 3 hrs |
| FIL 3402  | Film History II             | 3 hrs |
| FIL 3503C   | Film Theory and Criticism I | 3 hrs |
| FIL 3922  | Film Colloquium             | 6 hrs |
| (Six semesters of Colloquium required at 1 hr each) |                             |       |
| FIL 4208C   | Directing II                | 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 |       |

#### 5. Upper Level Restricted Electives (12 hrs)

Select four courses from the following. Must complete all core requirements before taking these courses. A maximum of six hours of Independent Study may be substituted with advisor's prior approval.

##### ■ Production/Direction

- |           |                           |
|-----------|---------------------------|
| FIL 3300C | Film Documentary          |
| FIL 3625  | Interactive Entertainment |
| FIL 4210C | Cinematography II         |
| FIL 4212C | Sound Design II           |
| FIL 4213  | Sound Design III          |
| FIL 4223  | Design for Film           |
| FIL 4228  | Directing III             |
| FIL 4294C | Editing II                |

##### ■ Screen Writing

- |           |                        |
|-----------|------------------------|
| FIL 4103  | Adaptation             |
| FIL 4112C | Feature/TV Writing II  |
| FIL 4113C | Interactive Writing I  |
| FIL 4114C | Interactive Writing II |
| FIL 4506C | Genre Writing          |
| FIL 4906  | Independent Study      |

##### ■ Cinema Studies

- |           |                              |
|-----------|------------------------------|
| FIL 3309  | Women in Film                |
| FIL 3412  | Black Cinema                 |
| FIL 3418  | Avant-Garde Cinema           |
| FIL 3504C | Film Theory and Criticism II |
| FIL 3511  | French New Wave Cinema       |
| FIL 3512  | Italian Neo-Realist Cinema   |
| FIL 3513  | Latin American Cinema        |
| FIL 3520  | Italian Film                 |
| FIL 3521  | French Film                  |
| FIL 3522  | German Film                  |
| FIL 3551  | American Cinema              |

##### ■ Digital Cinema

- |           |                                     |
|-----------|-------------------------------------|
| ART 2820  | Art as Interface                    |
| ART 3618C | Post-Production Design              |
| COP 3502C | Computer Science I                  |
| DIG 3855  | Converging Media                    |
| DIG 3135C | Digital Imagery                     |
| DIG 4780  | Modeling for Realtime Graphics      |
| ENC 4415  | Digital Rhetoric & Modern Dialectic |
| IDS 3701C | Internet Software Design            |
| MUC 3311  | MIDI Sequencing I                   |

#### 6. Capstone Courses (6 hrs)

- |           |             |       |
|-----------|-------------|-------|
| FIL 4203C | Capstone I  | 3 hrs |
| FIL 4211C | Capstone II | 3 hrs |

#### 7. Departmental Exit Requirements

- A student must maintain an overall average of "B" (3.0) or better in major courses.
- Computer competency met by CGS 1060C or STA1060C.
- Department of Film requires taking an exit examination.

#### 8. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

#### 9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

# UCF Degree Programs

## 10. University Minimum Exit Requirements

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

**Total Semester Hours Required** **120 hours**

**Related Programs:** 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 Humanities**

**School of Film and Digital Media**

**Film Division, COM 121, 407-823-3456**

<http://www.film.ucf.edu>

E-mail: film@mail.ucf.edu

Division Head: S. Schlow, 407-823-0694

### 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
- Co-op or internship credit cannot be used in this major
- Students must consult with a departmental advisor each semester
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program

**(36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
  - Prefer one course from 1.B.1 list 3 hrs
  - Prefer FIL2400 3 hrs
  - Prefer one course from 1.B.1 or 1.B.2 list 3 hrs
- C. Mathematical Foundations
  - Select MGF 1106 3 hrs
  - (may substitute a higher level math)
  - Prefer CGS 1060C *or* 3 hrs
  - STA 1060C
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

### 2. Common Program Prerequisites

**(3 hrs)**

- FIL 2400\* History of the Motion Pictures
- FIL 1007\* Foundations of Story
- \*see Transfer Notes for possible substitutes

### 3. Core Requirements

**(48 hrs)**

- DIG 3001 Digital Media Principles 3 hrs

FIL 1008	Cinematic Expression/Aesthetics	3 hrs
FIL 2107	Script Analysis	3 hrs
FIL 2224C	Foundations of Production	3 hrs
FIL 3006	Art of the Cinema	3 hrs
FIL 3102	Writing for Film and TV	3 hrs
FIL 3124	Short Script or	
FIL 3252C	Cinematic Expression	3 hrs
FIL 3300C	Film Documentary	3 hrs
FIL 3401	Film History I	3 hrs
FIL 3402	Film History II	3 hrs
FIL 3418	Avant-Garde Cinema	3 hrs
FIL 3503C	Film Theory and Criticism I	3 hrs
FIL 3504C	Film Theory and Criticism II	3 hrs
FIL 3510	World Cinema Traditions	3 hrs
FIL 3551	American Cinema	3 hrs
FIL 4604	The Film Producer	3 hrs

## 4. Restricted Upper Division Electives

**(9 hrs)**

Select three courses from the following upper level FIL courses:

DIG 3855	Converging Media
FIL 3269	Cinema Director
FIL 3309	Women in Film
FIL 3410	History of Animated Films
FIL 3412	Black Cinema
FIL 3511	French New Wave Cinema
FIL 3512	Italian Neo-Realist Cinema
FIL 3513	Latin American Cinema
FIL 3514	International Cinema
FIL 3520	Italian Film
FIL 3521	French Film
FIL 3522	German Film
FIL 3542	Cinema Criticism (writing)
FIL 3625	Interactive Entertainment
FIL 4906	Independent Study
FIL 5609	Film and Internet Business

(a maximum of 6 hours Independent Study may be used)

## 5. Required Minor

**(18 hrs min)**

Must be taken outside the Film Department.

## 6. Departmental Exit Requirements

- A student must maintain an overall average of "B" (3.0) or better in major courses.
- Computer competency met by CGS1060 or STA1060C.

## 7. Foreign Language Requirements

**(0-8 hrs)**

**Admission:** Met by graduation requirement.

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 8. Electives

**(variable)**

Select primarily from upper division courses, with departmental advisor's approval. May be outside of the department.

## 9. University Minimum Exit Requirements

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

**Total Semester Hours Required**

**120 hrs**

**Related Programs:** Animation, Art, Creative Writing, Film, Music, Theatre, Radio/TV

**Related Minors:** Art, Cinema Studies, Creative Writing, Music, Theatre

### Transfer Notes:

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

**Acceptable Substitutes** for Common Program Prerequisites

- FIL2400 may substitute FIL 1001, but FIL 2400 is a prerequisite

for subsequent Film courses and still must be taken.

- FIL 1007 may use any introductory course. However, FIL 1007 is a prerequisite for all Cinema Studies courses and must be taken.

## FILM- WORLD CINEMA TRACK (B.A.)

**College of Arts and Humanities**

**School of Film and Digital Media**

**Film Division, COM 121, 407-823-3456**

<http://www.film.ucf.edu>

E-mail: film@mail.ucf.edu

Division Head: S. Schlow, 407-823-0694

### Limited Access Program

#### Admission Requirements

- The Film - World Cinema 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.
- All students are required to pay a fee for equipment insurance.
- Departmental residency requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations               | 9 hrs |
| B. Cultural and Historical Foundations     |       |
| Prefer one course from 1.B.1 list          | 3 hrs |
| Prefer FIL 2400                            | 3 hrs |
| Prefer one course from 1.B.1 or 1.B.2 list | 3 hrs |
| C. Mathematical Foundations                |       |
| Prefer MGF 1106                            | 3 hrs |
| (may substitute a higher level math)       |       |
| Prefer CGS 1060C or STA 1060C              | 3 hrs |
| D. Social Foundations                      | 6 hrs |
| E. Science Foundations                     | 6 hrs |

### 2. Common Program Requirements (3 hrs)

- |  |       |  |
|--|-------|--|
| FIL 2400* History of Motion Pictures           | GEP   |  |
| FIL 1007* Foundations of Story                 | 3 hrs |  |
| *See transfer notes for possible substitutions |       |  |

### 3. Core Requirements (57 hrs)

- |           |                                 |       |
|-----------|---------------------------------|-------|
| DIG 3001  | Digital Media Principles        | 3 hrs |
| FIL 1009  | Cinematic Expression for Majors | 3 hrs |
| FIL 2107  | Script Analysis                 | 3 hrs |
| FIL 2200  | Cinematography I                | 3 hrs |
| FIL 2220  | Directing I                     | 3 hrs |
| FIL 2274C | Editing I                       | 3 hrs |
| FIL 3124  | Short Script I                  | 3 hrs |
| FIL 3201C | Introduction to Film Production | 3 hrs |
| FIL 3297  | Sound Design I                  | 3 hrs |
| FIL 3300C | Film Documentary                | 3 hrs |
| FIL 3304C | Documentary Vision              | 3 hrs |
| FIL 3307  | Docudrama                       | 3 hrs |
| FIL 3401  | Film History I                  | 3 hrs |
| FIL 3503C | Film Theory and Criticism I     | 3 hrs |
| FIL 3510  | World Cinema Traditions         | 3 hrs |
| FIL 4301C | Documentary Workshop I          | 3 hrs |
| FIL 4302C | Documentary Workshop II         | 3 hrs |
| FIL 4602  | Film Business                   | 3 hrs |
| FIL 4607  | Film Production Management      | 3 hrs |

### 5. Upper Level Restricted Electives (9 hrs)

Select three of the following

- |           |                              |
|-----------|------------------------------|
| FIL 3XXX  | Documentary Field Production |
| FIL 3504C | Film Theory and Criticism II |
| FIL 3513  | Latin American Cinema        |
| FIL 4564  | Africana Cinema              |
| FIL 4574  | Images & Text in Context     |
| FIL 4604  | The Film Producer            |

Additional courses may be acceptable. Consult your advisor.

### 6. Capstone (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 courses within the major.
- Computer competency met by CGS 1060C or STA 1060C.
- Department of Film requires a passing grade on 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, Film, Digital Media, Music, Radio/TV, Theatre.

**Related Minors:** Cinema Studies, Creative Writing, Digital Media, African American Studies, Women Studies, Latin American Studies, Asian Studies, International and Global Studies

#### Transfer Notes:

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

**Acceptable Substitutes** for Common Program Prerequisites

- FIL 2400 may substitute FIL 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**

**BA2 101, 407-823-2184**

<http://www.bus.ucf.edu/finance>

### Admissions Requirements

- Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

### Degree Requirements

#### 1. UCF General Education Program

**(36 hrs)**

# UCF Degree Programs

A. Communications Foundations Required: SPC 1600	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations Select MAC 1105 College Algebra	3 hrs
Select CGS 2100CC Comp Fundamentals for Bus	3 hrs
D. Social Foundations Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundations	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	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100CC	Computer Fundamentals for Business

\*At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

## 3. Required for All Business Majors (30 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Rrequired in 1st or 2nd semester)	6 hrs
GEB 3356	Introduction to International Business	3 hrs
BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs

### Last Semester:

MAN 4720	Strategic Management	3 hrs
----------	----------------------	-------

## 4. Special College and/or Department Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in finance must apply for admission to the major.
- Final exams will be given during exam week.
- Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- A maximum of 6 hours of required or elective coursework (from sections 5 and 6 below) can count toward another major or minor degree program.
- Students majoring in finance must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. FIN 3403 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

## 5. Required Courses (18 hrs)

FIN 3303	Financial Markets	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 4313	Management of Financial Institutions	3 hrs
FIN 4324	Commercial Bank Management	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4521C	Applied Portfolio Management I	4 hrs
FIN 4522C	Applied Portfolio Management II	4 hrs
FIN 4533	Financial Derivatives	3 hrs
FIN 4604	International Financial Management	3 hrs
FIN 4424	Adv Topics in Financial Management	3 hrs

## 6. Restricted Electives (9 hrs)

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
ECO 4412	Economic Statistics and Econometrics	3 hrs
FIN 3470	Financial Statement Analysis	3 hrs

FIN 4313	Management of Financial Institutions	3 hrs
FIN 4324	Commercial Bank Management	3 hrs
FIN 4424	Adv Topics in Financial Management	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4533	Financial Derivatives	3 hrs
FIN 4604	International Financial Management	3 hrs
FIN 4730	Senior Financial Consulting I	3 hrs
FIN 4731	Senior Financial Consulting II	3 hrs
FIN 4906	Independent Study	3 hrs
FIN 4941	Internship	3 hrs
MAR 3391	Professional Selling	3 hrs
REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4103	Real Estate Appraisal	3 hrs
REE 4204	Real Estate Finance	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs
REE 4732	Real Estate Development	3 hrs
RMI 3011	Principles of Risk and Insurance	3 hrs
TAX 4001	Federal Income Tax I	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
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

## 9. Electives\*\*\*

(variable)

Total Semester Hours Required

120 hours

## Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the 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 - FINANCE

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3

***Elective	3	CGS 2100CC*	3
Must complete nine hours in a summer semester			
<b>Sophomore</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3

<b>Junior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
**GEB 3031	6	FIN 3303	3
GEB 3356	3	FIN 3414	3
MAR 3023	3	ECO 3411	3
FIN 3403	3	MAN 3025	3
		BUL 3130	3

<b>Senior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
FIN 3504	3	MAN 4720	3
ISM 3011	3	***Elective	3
FIN Elective	3	FIN 4453	3
FIN Elective	3	FIN Elective	3
FIN Elective	3	FIN Elective	3

\*\*\*General electives as required to reach 120 semester hours. The department recommends completing FIN 2104 (Personal Finance) prior to the junior year.

## FOREIGN LANGUAGE EDUCATION- FRENCH (B.S.)

### College of Education

#### Department of Teaching and Learning Principles, ED209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Karen Verkler

ED 220-L, 407-823-5235

E-mail: [kverkler@mail.ucf.edu](mailto:kverkler@mail.ucf.edu)

#### Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

#### Degree Requirements:

- Students should see an advisor prior to registering for classes
- 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)

<b>A. Communication Foundations (9 hrs)</b>			
ENC 1101	Composition I		3 hrs
ENC 1102	Composition II		3 hrs
Select SPC 1600	Fundamentals of Oral Communication		3 hrs
<b>B. Cultural-Historical Foundations (9 hrs)</b>			
Select AMH 2010	U.S. History 1492-1877		3 hrs
Select AMH 2020	U.S. History 1877-Present		3 hrs
Select PHI 2010	Introduction to Philosophy		3 hrs
<b>C. Mathematical Foundations (6 hrs)</b>			
Select MGF 1106	Finite Mathematics		3 hrs
Select one:			
STA 1060C	Basic Statistics using MS Excel	<i>or</i>	3 hrs
STA 2014C	Principles of Statistics		
<b>D. Social Foundations (6 hrs)</b>			
Prefer POS 2041	American National Government		3 hrs
Select PSY 2012	General Psychology		3 hrs
<b>E. Science Foundations (6 hrs)</b>			
Prefer PSC 1121	Physical Science		3 hrs
Select one:			
ANT 2511	The Human Species	<i>or</i>	3 hrs
BSC 1005	Biological Principles		

Note: See laboratory component under Section 2.

#### 2. Common Program Prerequisites (25 hrs)

<b>A. Communications (9 hrs)</b>			
ENC 1101	Composition I		GEP
ENC 1102	Composition II		GEP
SPC 1600	Fundamentals of Oral Communication		GEP

<b>B. Humanities (6 hrs)</b>			
PHI 2010	Introduction to Philosophy		GEP
Select one:			
ARH 2050	History of Western Art I	<i>or</i>	3 hrs
ARH 2051	History of Western Art II		
MUL 2010	Enjoyment of Music	<i>or</i>	
THE 2000	Theatre Survey	<i>or</i>	
FIL 2400	History of Motion Pictures		

<b>C. Mathematics (9 hrs)</b>			
MAC 1105	College Algebra		3 hrs
MGF 1106	Finite Mathematics		GEP
One of the following (per GEP)			
STA 1060C	Basic Statistics using MS Excel	<i>or</i>	GEP
STA 2014C	Principles of Statistics		

<b>D. Social Science/History (12 hrs)</b>			
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

<b>E. Science (9 hrs + lab)</b>			
PSC 1121	Physical Science		GEP
One of the following (per GEP)			
ANT 2511	The Human Species	<i>or</i>	GEP
BSC 1005	Biological Principles		

Select one:			
AST 2002	Astronomy	<i>or</i>	3 hrs
GEO 1200	Physical Geography	<i>or</i>	
GLY 1030	Geology and its Applications		
Select one associated science lab:			
BSC 1005L	Biological Principles Laboratory	<i>or</i>	1 hr
PSC 1121L	Physical Science Laboratory		

<b>F. Education Courses (9 hrs)</b>			
EDF 2005	Introduction to Education		3 hrs
EDG 2701	Teaching Diverse Populations		3 hrs
EME 2040	Technology for Educators		3 hrs

<b>G. Diversity Courses</b>			GEP
-----------------------------	--	--	-----

<b>H. Other Program Prerequisites (6 hrs)</b>			
---	--	--	--

FRE 2200	Intermediate French Lang and Civ I		3 hrs
FRE 2201	Intermediate French Lang and Civ II		3 hrs

Note: FRE 2270 Intermediate French Study Abroad (8 hrs) may be taken in place of FRE 2200 and FRE 2201:

#### 3. Education Core Requirements (15 hrs)

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

#### 4. Internship I (ESE3940) (3 hrs)

- Program Internship I Prerequisites: EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I with a minimum grade of "C-" in all of these prerequisite courses\*
- See additional requirements listed under College of Education, Office of Clinical Experiences

#### 5. Specialization Requirements (21 hrs)

*FLE 4333	For Lang Tch in the Secondary School		3 hrs
*FLE 4314	For Lang Tch in the Elementary School		3 hrs
FRE 3300	French Grammar		3 hrs
FRE 3420	French Composition		3 hrs
FRE 3760	Advanced French Oral Composition		3 hrs
FRW 3100	Survey of French Literature I		3 hrs
FRW 3101	Survey of French Literature II		3 hrs

#### 6. Upper Division Restricted Electives (9 hrs)

Select three upper division (3000 or 4000 level) courses in French with advisor's approval. Students are encouraged to select from the following courses:

FRE 4421	Advanced French Conversation		
FRE 4422	Advanced French Composition		
FRE 4500	French Civilization and Culture		
Any FRW 3/4XXX with Advisor's approval.			

#### 7. Other Cognate Requirements (3 hrs)

Select one of the following:			
FRE3780	French Phonetics and Diction	<i>or</i>	3 hrs
LIN 4643	Cross-Cultural Communication		

#### 8. Internship II (ESE4943) (12 hrs)

## UCF Degree Programs

- At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

### 9. Foreign Language Requirements (0-8 hrs)

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

### 10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

### 11. University Minimum Exit Requirements

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

### 12. Total Program Semester Hours Required 124 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 13. Recommended Four-Year Sequence of Courses

#### Freshman Year

Fall	(12 hrs)	Spring	(16 hrs)
EDF 2005	3 hrs	EDG 2701	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MGF 1106	3 hrs	MAC 1105	3 hrs
PSY 2012	3 hrs	POS 2041	3 hrs
		PSC 1121	3 hrs
		PSC 1121L	1 hr
<b>Summer</b>	<b>(6 hrs)</b>		
EME 2040	3 hrs		
PHI 2010	3 hrs		

#### Sophomore Year

Fall	(15 hrs)	Spring	(12 hrs)
AMH 2010	3 hrs	AMH 2020	3 hrs
BSC 1005	3 hrs	AST 2002	3 hrs
FRE 2200	3 hrs	FRE 2201	3 hrs
SPC 1600	3 hrs	ARH 2050 or	3 hrs
STA 2014C	3 hrs	MUL 2010 or	
		THE 2000 or	
		FIL 2400	
<b>Summer</b>	<b>(3 hrs)</b>		
TSL 4080	3 hrs		

#### Junior Year

Fall	(15 hrs)	Spring	(15 hrs)
*EDF 4214	3 hrs	FRW 3101	3 hrs
*EDG 4323	3 hrs	FRE 3760	3 hrs
FRE 3300	3 hrs	RED 4043	3 hrs
FRE 3420	3 hrs	Upper division	6 hrs
FRW 3100	3 hrs	restricted electives (FRE/FRW 3/4XXX)	
<b>Summer</b>	<b>(6 hrs)</b>		
*FLE 4314	3 hrs		
*FLE 4333	3 hrs		

#### Senior Year

Fall	(12 hrs)	Spring	(12 hrs)
EDF 4603	3 hrs	ESE 4943	12 hrs
ESE 3940	3 hrs		
Upper division restricted			
elective (FRE/FRW			
3/4XXX)	3 hrs		
Select one:	3 hrs		
FRE 3780 or			
LIN 4643			

\*Required prior to Internship I.

## FOREIGN LANGUAGE EDUCATION- SPANISH (B.S.)

### College of Education

### Department of Teaching and Learning Principles

### ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Karen Verkler

ED 220-L, 407-823-5235

E-mail: [kverkler@mail.ucf.edu](mailto:kverkler@mail.ucf.edu)

### Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

### Degree Requirements

- Students should see an advisor prior to registering for classes
- 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	3 hrs
ENC 1102	Composition II	3 hrs
Select SPC 1600	Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations		(9 hrs)
Select AMH 2010	U.S. History 1492-1877	3 hrs
Select AMH 2020	U.S. History 1877-Present	3 hrs
Select PHI 2010	Introduction to Philosophy	3 hrs
C. Mathematical Foundations		(6 hrs)
Select MGF 1106	Finite Mathematics	3 hrs
Select one:		3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Foundations		(6 hrs)
Prefer POS 2041	American National Government	3 hrs
Select PSY 2012	General Psychology	3 hrs
E. Science Foundations		(6 hrs)
Prefer PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
ANT 2511	The Human Species <i>or</i>	
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 2050	History of Western Art I <i>or</i>	
ARH 2051	History of Western Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 2400	History of Motion Pictures	
C. Mathematics		(9 hrs)
MAC 1105	College Algebra	3 hrs
MGF 1106	Finite Mathematics	GEP
One of the following	(per GEP)	GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>	

STA 2014C	Principles of Statistics	(12 hrs)
D. Social Science/History		
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science	(9 hrs + lab)	
PSC 1121	Physical Science	GEP
One of the following (per GEP)		GEP
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		1 hr
BSC 1005L	Biological Principles Laboratory <i>or</i>	
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		(6 hrs)
SPN 2200	Intermediate Spanish Lang and Civ I	3 hrs
SPN2201	Intermediate Spanish Lang and Civ II <i>or</i>	3 hrs
SPN 3234	Advanced Directed Readings (may be taken in place of SPN2201 with advisor's consent)	

**3. Education Core Requirements (15 hrs)**

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

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

- Program Internship I Prerequisites: EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed prior to Internship I with a minimum grade of "C" in all these prerequisite courses.\*
- See additional requirements listed under College of Education, Office of Clinical Experiences

**5. Specialization Requirements (21 hrs)**

*FLE 4333	For Lang Tch in the Secondary School	3 hrs
*FLE 4314	For Lang Tch in the Elementary School	3 hrs
SPN 3300	Advanced Spanish Grammar and Comp	3 hrs
SPN 3420	Spanish Composition	3 hrs
SPN 3760	Advanced Spanish Oral Communication	3 hrs
SPW 3100	Survey of Spanish Literature I	3 hrs
SPW 3101	Survey of Spanish Literature II	3 hrs
or in place of SPW 3100 and SPW 3101:		
SPW 3130	Survey of Latin American Literature I	
SPW 3131	Survey of Latin American Literature II	

**6. Upper Division Restricted Electives (9 hrs)**

Select three upper division (3000 or 4000 level) courses in Spanish with advisor's approval. Students are encouraged to select from the following courses:

SPN 4410	Advanced Spanish Conversation
SPN 4421	Advanced Spanish Composition
SPN 4510	Spanish Civilization and Culture
SPN 4520	Latin American Civilization and Culture
Any SPN 4xxx with advisor's approval	

**7. Other Cognate Requirements (3 hrs)**

Select one of the following:

LIN 4643	Cross-Cultural Communication	3 hrs
SPN 3852	Bilinguismo	
SPN 4800	Spanish-American Syntax	
SPN 4801	Spanish Morphosyntax	

**8. Internship II (ESE4943) (12 hrs)**

- At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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

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

**10. Departmental Exit Requirements**

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

**11. University Minimum Exit Requirements**

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

**12. Total Semester Hours Required 124 hrs**

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

**13. Recommended Four-Year Sequence of Courses**

<b>Freshman Year</b>			
<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
EDF 2005	3 hrs	EDG 2701	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MGF 1106	3 hrs	MAC 1105	3 hrs
PSY 2012	3 hrs	POS 2041	3 hrs
		PSC 1121	3 hrs
		PSC 1121L	1 hr

<b>Summer</b>	<b>(6 hrs)</b>
EME 2040	3 hrs
PHI 2010	3 hrs

<b>Sophomore Year</b>			
<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
AMH 2010	3 hrs	AMH 2020	3 hrs
BSC 1005	3 hrs	AST 2002	3 hrs
SPC 1600	3 hrs	SPN2201 <i>or</i>	3 hrs
SPN 2200	3 hrs	SPN 3234 with	
STA 2014C	3 hrs	advisor's consent	
		ARH 2050 <i>or</i>	3 hrs
		MUL 2010 <i>or</i>	
		THE 2000 <i>or</i>	
		FIL 2400	

<b>Summer</b>	<b>(3 hrs)</b>
TSL 4080	3 hrs

<b>Junior Year</b>			
<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(15 hrs)</b>
*EDF 4214	3 hrs	RED 4043	3 hrs
*EDG 4323	3 hrs	SPW 3101 <i>or</i>	3 hrs
SPN 3300	3 hrs	SPW 3131	
SPN 3420	3 hrs	Cognate elective	3 hrs
SPN 3760	3 hrs	Upper division	6 hrs
		restricted electives	
		SPW 4XXX)	

<b>Summer</b>	<b>(6 hrs)</b>
*FLE 4314	3 hrs
*FLE 4333	3 hrs

<b>Senior Year</b>			
<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
EDF 4603	3 hrs	ESE 4943	12 hrs
ESE 3940	3 hrs		
SPW 3100 <i>or</i>	3 hrs		
SPW 3131			

# UCF Degree Programs

Upper division 3 hrs  
restricted elective (SPW 4XXX)  
\*Required prior to Internship I.

## FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)

College of Sciences, Department of Chemistry

CH 329, 407-823-6205

<http://www.cas.ucf.edu/chemistry>

E-mail: [chemistry@ucf.edu](mailto:chemistry@ucf.edu)

Contact: B. Fookes

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 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 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

#### A. Communication Foundations

- Select ENC 1101 and ENC 1102 6 hrs
- Prefer SPC 1016 3 hrs

#### B. Cultural and Historical Foundations

- 9 hrs

#### C. Mathematical Foundations

- Select MAC 2311 4 hrs
- Select STA 2023 3 hrs

#### D. Social Foundations 6 hrs

#### E. Science Foundations

- Select PHY 2048 & L (PR: MAC 2311) 4 hrs
- Select BSC 2010C 4 hrs

### 2. Common Program Prerequisites (16 hrs)

- BSC 2010C Biology I GEP
- CHM 2045C\*\* Chem Fund I 4 hrs
- CHM 2046 & L Chem Fund II with Lab 4 hrs
- MAC 2311 Calculus w/ Anal Geometry I GEP
- MAC 2312 Calculus w/ Anal Geometry II 4 hrs
- PHY 2048 & L\* Physics Engr. & Sci. I & Lab GEP
- PHY 2049 & L\* Physics Engr. & Sci. II & Lab 4 hrs

\*See Transfer Notes for possible substitutes

+ CHM 2040 plus CHM 2041 can substitute for CHM 2045C

### 3. Core Science and Math Requirements (18 hrs)

- BSC 2010C Biology I GEP
- CHM 2210 Organic Chem. I 3 hrs
- CHM 2211 & L Organic Chem II & lab 5 hrs
- CHM 3120 & L Analytical Chemistry & Lab 4 hrs
- STA 2023 Statistical Methods I GEP
- PCB 3063 Genetics 3 hrs
- PCB 3233 Immunology 3 hrs
- MAC 2311 Calculus w/ Anal Geometry I CPP
- MAC 2312 Calculus w/ Anal Geometry II CPP
- PHY 2048 & L Physics Engr. & Sci. I & Lab CPP
- PHY 2049 & L Physics Engr. & Sci. II & Lab CPP

### 4. Forensic Science Core (19 hrs)

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

### 5. Forensic Analysis Track (27 hrs)

- Required Courses (15 hrs)
  - CHM 3422 Applied Physical Chemistry 3 hrs
  - CHM 4130C Advanced Analytical Chemistry 4 hrs
  - CHS 3511C Trace Evidence 4 hrs
  - CHS 3530C Foren Anal of Controlled Subs 4 hrs
- Select 12 hours from the following: (12 hrs)
  - ANT 4521C Forensic Anthropology 3 hrs
  - BCH 4053 Biochemistry I 3 hrs
  - CHM 3212L Organic Lab Techniques II 2 hrs
  - CHM 4912 Undergraduate Research 3 hrs
  - CHS 4506C Forensic Investigating Techniques 3 hrs
  - CHS 4515C Forensic Crime Scene Investigation 4 hrs
  - CHS 4547C Advanced Topics in Trace Evidence 3 hrs
  - PCB 3063L Genetics Lab 1 hrs
  - PCB 3233L Immunology Lab 1 hrs

Substitutions require prior approval by the department

### 6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by CHS 3505C and CHS 4537.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

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

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

Graduation: none

### 8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 9. University Minimum Exit Requirements

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

Total Semester Hours Required 124 hrs

Related Programs: Chemistry, Forensic Biochemistry Track

Related Minors: Chemistry

Transfer Notes:

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

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

- CHM 2045C\*: may use CHM 1040 plus CHM 1041
- MAC 2311\* & 2312\*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048 & Lab\* and 2049 & Lab\*: Although CPP requirements permit substitution by Organic Chemistry (CHM 2210 & 2211), PHY 2048 & L, PHY 2049 & L, CHM 245, and CHM 2046 are required for graduation, so all must be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same



requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Summer

Chem test See catalog	0
Math test See catalog	0

### Freshman Year

Fall		Spring	
BSC 2010C Biology I	4	PHY 2048 Phy for Eng Sci I	3
ENC 1101 Composition I	3	PHY 2048L Phy L Eng Sci I	1
MAC 2311 Calc Anal Geo I	4	CHM 2046 Chemistry Fund II	3
CHM 2045C Chemistry Fund I	4	CHM 2046L Chemistry Fund L	1
		MAC 2312 Calc Anal Geo II	4
		CHS 3501 Intro to For Sci	3

### Sophomore Year

Fall		Spring	
MUL 2010* req# 1B2-GEP	3	EUH 2001* req# 1B1-GEP	3
SPC 1016 Tech Presentations	3	CHM 2211 Organic Chm II	3
STA 2023 Stat Methods I	3	CHM 2211L Organic L Tech I	2
PHY 2049 Phy for Eng Sci II	3	ANT 4521C* req# 5b-RElect	3
PHY 2049L Phy L Eng Sci II	1	ENC 1102 Composition II	3
CHM 2210 Organic Chm I	3		

### Junior Year

Fall		Spring	
CHM 3120 Analy Chemistry & L	4	ENC 1102 Composition II	3
PCB 3063 Genetics	3	REL 2300* req# 1B3-GEP	3
PCB 3063L Genetics L	1	CHS 3595 For Sci in the Crt	3
CHS 3505C Forensic Mic	4	CHM 4130C Adv Analy L Tech	4
CHS 4537 For L Qual Assur	2	BCH 4053* req# 5b-RElect	3
CHM 4912	3		

### Senior Year

Fall		Spring	
PCB 3233 Immunology	3	POS 2041* req# 1D1-GEP	3
PCB 3233L Immunology Lab	1		
CHS 3533C Forensic Biochem I	3	PSY 2012* req# 1D2-GEP	3
CHM 3422 Applied Phy Chm	3	PCB 3233L Immunology L	1
CHS 3530C Forensic analysis	4	CHS 3511C Trace Evidence	4
Elective* Check restrictions	3	CHS 4515C* req# 5b-RElect	4
		ABC Exam See catalog	0

### Summer

CHS 4591 For Science Intrn	4
----------------------------	---

## FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)

College of Sciences, Department of Chemistry

CH 223, 407-823-0163

<http://www.cas.ucf.edu/chemistry/>

E-mail: [chemistry@ucf.edu](mailto:chemistry@ucf.edu)

Contact: J. Ballantyne

### Admission Requirements

none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry
- Co-op or internship credit cannot be used in this major
- Students 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 2. (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations

1. Select ENC 1101 and ENC 1102
  2. Prefer SPC 1016
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
1. Select MAC 2311
  2. Select STA 2023
- D. Social Foundations 6 hrs
- E. Science Foundations
1. Select PHY 2048 & L (PR: MAC 2311)
  2. Select BSC 2010C

### 2. Common Program Prerequisites

(16 hrs)

BSC 2010C	Biology I	GEP
CHM 2045C**	Chem Fund I	4 hrs
CHM 2046 & L	Chem Fund II with Lab	4 hrs
MAC 2311	Calculus w/ Anal Geometry I	GEP
MAC 2312	Calculus w/ Anal Geometry II	4 hrs
PHY 2048 & L*	Physics Engr. & Sci. I & Lab	GEP
PHY 2049 & L*	Physics Engr. & Sci. II & Lab	4 hrs

\*See Transfer Notes for possible substitutes

+CHM 2040 plus CHM 2041 can substitute for CHM 2045C

### 3. Core Science and Mathematics Requirements

(20 hrs)

BSC 2010C	Biology I	GEP
CHM 2210	Organic Chem. I	3 hrs
CHM 2211 & L	Organic Chem. II & lab	5 hrs
CHM 3120 & L	Analytical Chemistry & Lab	4 hrs
STA 2023	Statistical Methods I	GEP
PCB 3063 & L	Genetics & lab	4 hrs
PCB 3233 & L	Immunology & lab	4 hrs
MAC 2311	Calculus & Anal Geo I	CPP
MAC 2312	Calculus & Anal Geo II	CPP
PHY 2048&L	Physics Science & Eng I	CPP
PHY 2049&L	Physics Science & Eng II	CPP

### 4. Forensic Science Core

(19 hrs)

CHS 3501	Intro to Forensic Science	3 hrs
CHS 3505C	Forensic Microscopy	4 hrs
CHS 4537	Forensic Lab Quality Assurance	2 hrs
CHS 3595	Foren Sci in the Courtroom	3 hrs
CHS 3533C	Forensic Biochemistry I	3 hrs
CHS 4591	Forensic Science Internship	4 hrs

### 5. Forensic Biochemistry Track

(29 hrs)

MCB 3020C	General Microbiology	5 hrs
BCH 4053	Biochemistry I	3 hrs
BCH 4054	Biochemistry II	3 hrs
BCH 4103L	Biochemical Methods Lab	2 hrs
PCB 3522	Molecular Biology I	3 hrs
PCB 4524	Molecular Biology II	3 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
CHS 4534C	Forensic Biochemistry II	3 hrs
CHS 4532	Interpretation of DNA Evidence	3 hrs

### 6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by CHS 3505C and CHS 4537 .
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

### 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

## UCF Degree Programs

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 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
- 2254\*: may use MAC 2311 & 2312
- MAC 2311\* & 2312\*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048&Lab\* and 2049&Lab\* : Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2049&L, and Organic Chemistry through CHM 2046 are required for graduation.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Summer

Chem Test See catalog	0
Math test See catalog	0

#### Freshman Year

Fall	Spring
BSC 2010C Biology I	4 PHY 2048 Phy for Eng Sci I
ENC 1101 Composition I	3 PHY 2048L Phy L Eng Sci I
MAC 2311 Calc Anal Geo I	4 CHM 2046 Chemistry Fund II
CHM 2045C Chemistry Fund I	4 CHM 2046L Chemistry Fund L
	MAC 2312 Calc Anal Geo II
	CHS 3501 Intro to For Sci

#### Sophomore Year

Fall	Spring
EUH 2000* req# 1B1-GEP	3 MUL 2010* req# 1B2-GEP
SPC 1016 Tech Presentations	3 POS 2041* req# 1D1-GEP
STA 2023 Stat Methods I	3 CHM 2211 Organic Chm II
PHY 2049 Phy for Eng Sci II	3 CHM 2211L Organic L Tech I
PHY 2049L Phy L Eng Sci II	1 MCB 3020C General Micro
CHM 2210 Organic Chm I	3

#### Junior Year

Fall	Spring
CHM 31020 Analy Chemistry	5 ENC 1102 Composition II
PCB 3063C Genetics	3 REL 2300* req# 1B3-GEP
PCB 3063L Genetics L	1 CHS 3595 For Sci in the Crt
CHS 3505C Forensic Mic	4 CHS 4532 Interp of Evidnc
CHS 4537 For L Qual Assur	2

#### Senior Year

Fall	Spring
PCB 3233 Immunology	3 PSY 2012* req# 1D2-GEP
PCB 3233L Immunology L	1 BCH 4054 Biochemistry II
CHS 3533C Forensic Biochem I	3 BCH 4103L Biochem Methods
BCH 4053 Biochemistry I	3 BSC 3403C Quant Bio Methods
PCB 3522 Mol Biology I	3 CHS 4534C For Biochem II
PCB 4524 Mol Biology II	3 ABC Exam See catalog

#### Summer

CHS 4591 For Science Intrn	4
----------------------------	---

## FRENCH (B.A.)

**College of Arts and Humanities**

**Department of Modern Languages & Literatures  
CNH 523,**

<http://www.cas.ucf.edu/forlang>

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

P. Giordano, 407-823-2472

**Admission Requirements** none

**Placement in Language courses**

Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above
- At least six of the 36 French credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in French
- Earn at least a "C" (2.0) in each upper division French course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites (0-14 hrs)

FRE 1120*	Elem French Lang & Civ I	4 hrs
FRE 1121*	Elem French Lang & Civ II	4 hrs
FRE 2200*	Interm French Lang & Civ I	3 hrs
FRE 2201*	Interm French Lang & Civ II	3 hrs

\* May be met by proficiency test or completion of FRE 2201

### 3. Core requirements (21 hrs)

FRE 3300*	Advanced Grammar	3 hrs
FRE 3420*	French Composition	
	<i>or</i>	3 hrs
FRE 4422	Advanced French Composition	
FRE 3760*	Adv French Oral Communication	
	<i>or</i>	3 hrs
FRE 4421	Advanced French Conversation	
FRW 3100	Survey of French Literature I	3 hrs
FRW 3101	Survey of French Literature II	3 hrs
FRE 3780*	French Phonetics and Diction	3 hrs
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	6 hrs
(taught in French)	

French courses 9 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.

## 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division French courses
- Students are required to satisfactorily complete a departmental exit exam
- Students must submit their portfolio to their French Faculty Advisor
- Computer Competency met by CGS 1060C or equivalent

## 6. Foreign Language Requirements (0-16 hrs)

**Admission:** Met by Graduation requirements.

**Graduation:** Met by Common Program Prerequisites.

## 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required 120 hrs**

**Related Programs:** Spanish, Foreign Language Combination

**Related Minors:** French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Spanish

### Transfer Notes:

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

## GENERAL BUSINESS (B.S.B.A.)

College of Business Administration

**BA2 101, 407-823-2184**

<http://www.bus.ucf.edu>

Faculty Advisor: B. Moore, BA 466, 407-823-5256, [bmoore@bus.ucf.edu](mailto:bmoore@bus.ucf.edu)

### Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

### Degree Requirements

- |   |          |
|---|----------|
| 1. UCF General Education Program                | (36 hrs) |
| A. Communication Foundations                    | 9 hrs    |
| Required: SPC 1600                              |          |
| B. Cultural and Historical Foundations          | 9 hrs    |
| C. Mathematical Foundations                     |          |
| Select MAC 1105 College Algebra                 | 3 hrs    |
| Select CGS 2100CC Computer Fundamentals for Bus | 3 hrs    |
| D. Social Foundations                           |          |
| Select ECO 2013 Macroeconomics <i>or</i>        | 3 hrs    |
| ECO 2023 Microeconomics                         |          |
| Select one: PSY 2012, SYG 2000, ANT 2000        | 3 hrs    |
| E. Science Foundation                           | 6 hrs    |

### 2. Common Program Prerequisites

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

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Macroeconomics
ECO 2023	Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100CC	Computer Fundamentals for Business

## 3. Required for All Business Majors (30 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	6 hrs
GEB 3356	Introduction to International Business	3 hrs
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
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB.
- Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied towards the major, and a 2.0 overall average in the major.

## 5. Second Level Core (5 courses):

Students must take one course from each of the following areas: Accounting (must take ACG 3131), Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:

### Accounting

ACG 3131	Financial Accounting Concept
ACG 3361	Intermediate Managerial Accounting
TAX 4001	Federal Income Tax I

### Economics

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

### Finance

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

### Management

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

### Marketing

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

## 6. Restricted Electives (four courses): (12 hrs)

Restricted electives are to be taken from three different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

**7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.**

## 8. 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.

# UCF Degree Programs

**Graduation:** none

## 9. University Minimum Exit Requirements

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

**10. Electives\*\*\*** (variable)

**Total Semester Hours Required** 120 hours

\*\*\*General electives as required to reach 120 semester hours.

## GENERAL BUSINESS (B.S.B.A.)

### AS to BS TRACK

**Note:** For detailed information about this program, see the AS to BS Program section.

## HEALTH INFORMATION MANAGEMENT (B.S.)

### College of Health and Public Affairs

**HPA2 210, 407-823-2369**

Undergraduate Program Director: Thomas Falen

E-mail: tfalen@mail.ucf.edu

Web Address: <http://www.cohpa.ucf.edu/health.pro/>

### Admission Requirements Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division health information management program.

- **Separate Application** to the *limited access program* must be made directly to the program prior to March 1 of the year admission is sought
- UCF application must also be submitted by the program deadline of March 1st. Acceptance to UCF is necessary before acceptance to the program can occur
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program
- All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of "C" (2.0)

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisites Requirements before transferring within the Florida Public University/ Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program
- UCF Residency Requirement: 31 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

**1. UCF General Education Program** (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2014C	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs
Select BSC 2010C	
Select CHM 1032	

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

ZOO 3733C Human Anatomy*	4 hrs
PCB 3703C Human Physiology*	4 hrs
STA 2014C Statistics	GEP
CGS 2100CC Computer Science for Business*	3 hrs
ACG 2021 Principles of Financial Accounting	3 hrs
ACG 2071 Principles of Managerial Accounting	3 hrs

\* see transfer notes

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

HSC 3157 Introduction to Pharmacology	3 hrs
HSA 3170 Health Care Finance	3 hrs
HSA 4109 Principles of Managed Care	3 hrs
HSA 4191 Health Care Automation	3 hrs
HSA 4702 Health Sciences Research Methods	3 hrs
HSC 3531 Medical Terminology	3 hrs
HSC 3640 Health Law	3 hrs
HSC 4550 Pathophysiologic Mechanisms	3 hrs
MAN 3025 Management of Organizations or	
HSA 4180 Organization /Management for Health Agencies	3 hrs
HIM 3006 Foundations of Health Information Management	3 hrs
HIM 3116C Health Record Organization & Management	4 hrs
HIM 3806L Professional Practice Exp. I	4 hrs
HIM 3816L Professional Practice Exp. II	4 hrs
HIM 4226C Coding Procedures I	5 hrs
HIM 4256C Coding Procedures II	3 hrs
HIM 4676 Professional Development Issues in Health Information Management	3 hrs
HIM 4344C Health Information Department Management	4 hrs
HIM 4506 Quality Management	3 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 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**

<b>Freshman Year*</b>			
<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>16 hrs</b>
ENC 1101	3	ENC 1102	3
CHM 1032	3	STA 2014C	3
HSC 2000	2	BSC 2010C	4
MAC 1105	3	EUH 2000 <i>or</i> HUM 2210	3
PSY 2012 <i>or</i> SYG 2000	3	<i>or</i> AMH 2010	
<i>or</i> ANT 2000		POS 2041 <i>or</i> ECO 2013	3
*Plan your required nine summer hours into your course of study			
<b>Sophomore Year</b>			
<b>Fall</b>	<b>13 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
ACG 2021	3	ACG 2071	3
ZOO 3733C	4	PCB 3703C	4
EUH 2001 <i>or</i> HUM 2230	3	SPC 1600	3
<i>or</i> AMH 2020		One Course: ARH 2050	3
CGS 2100CC	3	ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	
<b>Junior Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>16 hrs</b>
HSA 4191**	3	HIM 4226C	5
HSC 4550**	3	HIM 3116C	4
HIM 3006	3	HIM 3806L	4
MAN 3025** <i>or</i> HSA 4180	3	HSC 3157	3
HSC 3531**	3		
<b>Summer</b>			
	<b>6 hrs</b>		
HSA 4109	3		
HSC 3640**	3		
<b>Senior Year</b>			
<b>Fall</b>	<b>13 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
HIM 4344C	4	HIM 4676	3
HSA 3170**	3	HIM 4656C	3
HIM 4506	3	HIM 3816L	4
HIM 4256C	3	HSA 4702**	3
<b>Summer</b>			
	<b>5 hrs</b>		
HIM 4838	5		

\*\*NOTE: The asterisked courses may be taken at any time during the two years. The HIM courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.

**HEALTH SCIENCES - ATHLETIC TRAINING TRACK (B.S.)**  
**College of Health and Public Affairs**  
**HPA2 210, 407-823-3463**  
<http://www.cohpa.ucf.edu/health.pro/athletic>  
**E-mail: kschellh@mail.ucf.edu**

*Undergraduate Program Director:* Kristen C. Schellhase, MEd, ATC, CSCS

**Admission Requirements**

Students may only begin the athletic training program track in the Summer semester and must have:

- A. Acceptance to the University as an undergraduate student in Health Sciences - Athletic Training Pending.
- 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 intensity, it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- E. Consent of Program Director.
- F. A minimum of 100 documented clock hours working, volunteering, or shadowing with a licensed certified athletic trainer (ATC) prior to Program application. At least 50 of these hours must be obtained within a traditional athletic training setting (high school, college, professional).

**Technical Standards Requirement**

The Program in Athletic Training at University of Central Florida is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (Commission on Accreditation of Athletic Training Education [CAATE]). The following abilities and expectations must be met by all students admitted to the Program in Athletic Training. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program's technical standards does not guarantee a student's eligibility for the BOC examination.

Candidates for selection to the Program in Athletic Training must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
- Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients;
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
- The ability to record the physical examination results and a treatment plan clearly and accurately;
- The capacity to maintain composure and continue to function well during periods of high stress;
- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
- Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Program in Athletic Training will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. University of Central Florida will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review a whether the accommodations requested are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences and internships deemed essential to graduation. Each candidate must

# UCF Degree Programs

provide a copy of a recent physical examination that will be evaluated by the program's medical director.

## Degree Requirements

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

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - Select MAC 1105
  - Select STA 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 professional phase of the Program in Athletic Training. Each of the required courses must have a grade of "C" (2.0) or better.

BSC 2010C	Biology I and Lab	GEP	
ZOO 3733C	Human Anatomy	4 hrs	
PCB 3703C	Human Physiology	4 hrs	
CHM 2045C	Chemistry Fundamentals I	GEP	
PHY 2053C	Coll Physics I (algebra based) <i>or</i>	4 hrs	
PHY 2048&L	Physics for Scientists I (calculus based)		
HUN 2002	Modern Concepts of Nutrition	3 hrs	
STA 2023	Statistical Methods I	GEP	
PSY 2012	General Psychology	GEP	

### 3. Professional Phase (58 hrs)

The following courses are required to complete the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of "C" (2.0) or better.

PET 4603	Introduction to Athletic Training	3 hrs	
PET 3620C	Principles of Athletic Training	3 hrs	
PET 3670C	Practicum in Athletic Training I	4 hrs	
PET 4351C	App Exercise and Human Phys	3 hrs	
PET 3623C	Recognition and Evaluation of Athletic Injuries I	3 hrs	
PET 3671C	Practicum in Athletic Training II	4 hrs	
PET 4660C	Org and Adm in Athletic Training	3 hrs	
PET 4630C	Ther Exercise in Athletic Training	4 hrs	
PET 4632C	Ther Mod in Athletic Training	4 hrs	
PET 4624C	Recognition and Evaluation of Athletic Injuries II	3 hrs	
PET 4315C	Biomechanics of Sport	3 hrs	
PET 4672C	Practicum in Athletic Training III	4 hrs	
HSA 4702	Health Science Research	3 hrs	
PET 4606	App Fitness in Sport	3 hrs	
PET 4673C	Practicum in Athletic Training IV	4 hrs	
HSC 3157	Introduction to Pharmacology	3 hrs	
PET 4604	Sports Medicine in Field Application	3 hrs	
PET 4674	Senior Seminar	1 hr	

### 4. Upper Division Restricted Electives none

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

Two years of successful clinical rotation under the direct supervision of a certified Athletic Trainer (ATC).

### 6. Electives (variable)

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

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

**Graduation:** none

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required 120 hrs**

**Related Programs:** Aging Studies Certificate, Business, Public Administration

**Related Minors:** Business, Computer Sciences, Aging Studies, Biology, Coaching, Fitness Training, Health Information Management, Health Sciences, Health Services Administration and Public Administration. Courses leading to a teaching certificate (education) are also appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

### Transfer Notes:

Biology I with Lab (BSC 1010/L) 4 hrs  
 Human Anatomy and Physiology I & II (BSC X093 and X094 *or* BSC X085 and X086) 8 hrs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

### Tentative Course Schedule for Entering Freshmen

<b>Freshman Year*</b>			
<b>Fall</b>	15 hrs	<b>Spring</b>	14 hrs
ENC 1101	3	ENC 1102	3
PSY 2012	3	POS 2041	3
HSC 2000	2	BSC 2010C	4
MAC 1105	3	MAC 1114	4
CHM 2045C	4		

<b>Sophomore Year</b>			
<b>Fall</b>	14 hrs	<b>Spring</b>	16 hrs
PHY 2053C	4	MUL 2010 <i>or</i> REL 2300 <i>or</i>	3
ZOO 3733C	4	THE 2000 <i>or</i> PHI 2010	
STA 2023	3	HUN 2002	3
EUH 2000 <i>or</i> HUM 2210	3	PCB 3703C	4
<i>or</i> AMH 2010 <i>or</i> WOH 2012		SPC 1600	3
		EUH 2001 <i>or</i> HUM 2230	3
		<i>or</i> AMH 2020 <i>or</i> WOH 2022	

<b>Summer</b>			
	14 hrs		
PET 4603	3		
PET 3620C	3		
(Foreign Lang I)	4		
(Foreign Lang II)	4		
if not satisfied in high school			

<b>Junior Year</b>			
<b>Fall</b>	13 hrs	<b>Spring</b>	13 hrs
PET 3670C	4	HSC 3157	3
PET 4351C	3	PET 4624C	3
PET 3623C	3	PET 3671C	4
Elective	3	Elective	3

<b>Summer</b>			
	8 hrs		
PET 4630C	4		
PET 4632C	4		

<b>Senior Year</b>			
<b>Fall</b>	14 hrs	<b>Spring</b>	13 hrs
PET 4660C	3	HSA 4702	3
PET 4315C	3	PET 4606	3
PET 4674	1	PET 4673C	4
PET 4672C	4	PET 4604	3
Elective	3		

**HEALTH SCIENCES - Pre-Clinical Allied Health Track (B.S.)**

**College of Health and Public Affairs  
HPA2 210, 407-823-2369**

<http://www.cohpa.ucf.edu/healthpro/>

The Health Sciences-Pre-Clinical Allied Health Track is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

**Admission Requirements:** none

**Degree Requirements**

- Students should complete the General Education Program and the Common Program Prerequisites requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below)
- 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
- Courses in math, biology, chemistry and physics listed are the minimum levels. Students with adequate preparation are encouraged to enroll in higher course levels in the discipline.

**1. UCF General Education Program (36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
  - Select MUL 2010 Enjoyment of Music *or* REL 2300 World Religions *or* THE 2000 Theater Survey *or* PHI 2010 Intro to Philosophy
- C. Mathematical Foundations 6 hrs
  - Select MAC 1114 Trigonometry
  - Select STA 2014C Principles of Statistics *or* STA 2023 Statistical Methods I
- D. Social Foundations 6 hrs
  - Select ECO 2013 Principles of Economics I *or* ECO 2023 Principles of Economics II
  - Select PSY 2012 General Psychology
- E. Science Foundations 6 hrs
  - Select BSC 2010C Biology I
  - Select PHY 2053C College Physics I and Lab

**2. Common Program Prerequisites (0 hrs)**

- MAC 1114 Trigonometry GEP
- STA 2014C Principles of Statistics *or* GEP
- STA 2023 Statistical Method I
- BSC 2010C Biology I GEP

**3. Core Requirements - Lower Division (30 hrs)**

- CGS 1060C Intro to Computer Science *or*
- CGS 2100CC Computer Fundamentals for Business 3 hrs
- CHM2045C Chemistry Fundamentals I with lab 4 hrs
- CHM2046 Chemistry Fundamentals II 3 hrs
- CHM2046L Chemistry Fundamentals II lab 1 hrs
- CHM2205 Introduction to Organic and Biochemistry 3 hrs
- DEP2004 Developmental Psychology 3 hrs
- ECO2023 Microeconomics GEP
- HSC 2000 Intro to the Allied Health Professions 2 hrs
- HUN2002 Modern Concepts in Nutrition 3 hrs
- MAC 1114 College Trigonometry GEP
- MCB2004 Microbiology for Health Professionals 4 hrs
- PHY2053C College Physics I (not for Sci and Eng) GEP
- PHY2054C College Physics II (not for Sci and Eng) 4 hrs

- PSY2012 General Psychology GEP
- STA2014 Principles of Statistics *or*
- STA2023 Statistical Methods I GEP

**4. Core Requirements - Upper Division Basic and Health Sciences (41 hrs)**

- HSC3157 Introduction to Pharmacology 3 hrs
- HSC4550 Pathophysiology 3 hrs
- ZOO3703 Physiology 4 hrs
- ZOO3733 Anatomy 4 hrs
- Health Services (27 hrs)**
- HSA 3111 US Healthcare Systems 3 hrs
- HSA 4201 Community Health Services 3 hrs
- HSA 4180 Org & Mgt of Health Agencies 3 hrs
- HSA 3430 Health Care Economics 3 hrs
- HSC 3640 Health Law 3 hrs
- HSC 4500 Epidemiology 3 hrs
- HSC 4653 Healthcare Ethics 3 hrs
- HSA 4702 Health Sciences Research Methods 3 hrs
- HIM 4506 Quality Management 3 hrs

**5. Upper Division Restricted Electives: Choose a minimum of 3 courses from the list below**

- HSA 3170 Health Care Finance 3 hrs
- HSA 3222 Long Term Care Administration 3 hrs
- HSA 4109 Managed Care 3 hrs
- HSA 4191 Health Care Automation 3 hrs
- HSC 3110C Medical Self Assessment 3 hrs
- HSC 3531 Medical Terminology 3 hrs
- HSC 4243 Analysis of Instruction 3 hrs
- HSC 4564 Healthcare Needs of the Elderly 3 hrs
- HSC 3593 HIV Disease 3 hrs
- HSC 4008 Professional Development of the Health Prof'ns 3 hrs
- PHT 4119C Clinical Gross Anatomy 4 hrs

**6. Unrestricted Electives (variable)**

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

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

**Graduation:** None

**8. Program Exit Requirements (120 hrs)**

- The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2, 3 and 4 above). An overall 2.0 GPA must be attained for all coursework (see sections 1 - 5).
- Students should note that graduate programs may require a higher level of performance for admission.

**9. University Minimum Exit Requirements**

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

**Total Semester Hours Required 120 hrs**

**Related Programs:** The participating student may also consider applying for consideration to one or more of the following undergraduate professional degree options: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration. The program is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

**Related Minors:** Health Information Management, Health Services Administration.

# UCF Degree Programs

**Transfer Notes:** Completion of the Associate of Arts Degree is strongly recommended. Students who transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

## Tentative Course Schedule for Entering Freshmen

### Freshman Year

Fall	14-15 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C <i>or</i>	3	CHM 2046 & 2046L	4
CGS 2100CC		BSC 2010C	4
CHM 2045C	4	PSY 2012	3
MAC 1114	3		
HSC 2000	2		

### Sophomore Year

Fall	15/17 hrs	Spring	15/16 hrs
PHY 2053C	4	MUL 2010 <i>or</i> REL 2300	3
HUN 2002	3	<i>or</i> THE 2000 <i>or</i> PHI 2010	
SPC 1600	3	MCB2004	4
EUH 2000 <i>or</i> HUM	3	CHM 2205	3
2211 <i>or</i> AMH 2010		EUH 2001 <i>or</i> HUM	3
STA 2014C	3	2230 <i>or</i> AMH 2020	
<i>or</i> STA 2023		ECO 2023	3

### Summer

Foreign Lang I* <i>or</i> other lower level courses	2/4
Foreign Lang II* <i>or</i> other lower level courses	3/4

\* if not satisfied in high school.

### Junior Year

Fall	14 hrs	Spring	16 hrs
DEP 2004	3	HSA 4180	3
HSA 3111	3	HSC 3640	3
PHY 2054C	4	HSA 4201	3
ZOO 3733	4	HSC 3157	3
		ZOO 3703	4

### Senior Year

Fall	15 hrs	Spring	15 hrs
HSA 4702	3	HSC 4653	3
HSC 4550	3	HSC 4500	3
HSA 3430	3	HIM 4506	3
Elective (if needed)	3	Elective (if needed)	3
Elective (if needed)	3	Elective (if needed)	3

## HEALTH SERVICES ADMINISTRATION (B.S)

### College of Health and Public Affairs

HPA2 210, 407-823-2359

<http://www.cohpa.ucf.edu/health.pro/>

Executive Director of HSA Programs: Myron Fottler

Undergraduate Program Director: Thomas Falen

Graduate Program Director: Dawn Oetjen

This program is also currently available online. Students who choose to take online courses are urged to complete either CGS 2100CC or CGS 1060C prior to enrolling in online-based courses. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see <http://distrib.ucf.edu/home>.

### Admission Requirements

none

### Degree Requirements

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

### 1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
Prefer SPC 1600	
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2014C or 2023	
D. Social Foundations	6 hrs
Select ECO 2023	
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites

(9 hrs)

CGS 2100CC	Computer Fund for Business Applications <i>or</i>	3 hrs
CGS1060C	Intro to Computer Science	
ECO 2023	Microeconomics	GEP
ACG 2021	Financial Accounting	3 hrs
ACG 2071	Managerial Accounting	3 hrs
STA 2014C <i>or</i>	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 <i>or</i>	3 hrs
HIM 4506	Quality Management	
HSA 4702	Health Sciences Research Methods	3 hrs
HSC 3531	Medical Terminology	3 hrs
HSC 3640	Health Law	3 hrs
HSC 4500	Epidemiology	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
HSC 4653	Health Care Ethics	3 hrs
HSA 3430	Health Care Economics	3 hrs

Students must earn a "C" (2.0) or better in each Core Requirement course.

### 4. Upper Division Restricted Electives

none

### 5. Program Exit Requirements

(120 hrs)

Students must earn a "C" (2.0) or better in each Health Services Administration elective course.

### 6. Electives

(variable)

Students are encouraged to take additional Health Service Administration courses as electives or other courses that will enhance their background in the health care industry. These may be used to build minors and certificates offered by the University. Examples include: Health Sciences, Aging Studies, Public Administration, Criminal Justice, and Business. HSA elective courses include:

HSA 4941	HSA Internship
HIM 4656C	Health Information Management Systems
HIM 3006	Foundations of Health Information Management
HIM 4506	Quality Management

### 7. Foreign Language Requirements

(0-8 hrs)

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

### Graduation:

none

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP,



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

**Total Semester Hours Required** **120 hours**

**Related Programs:** Aging Studies Certificate, Public Administration, Health Information Management

**Related Minors:** Aging Studies, Health Information Management, Health Sciences, Information Systems, and Public Administration. Courses leading to a Certificate in Aging Studies are appropriate.

### Tentative Course Schedule for Entering Freshmen

#### Freshman Year\*

<b>Fall</b>	14 hrs	<b>Spring</b>	15 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000	3	ECO 2013	3
<i>or</i> ANT 2000		PSC 1121 <i>or</i> CHM 1020	3
HSC 2000	2	MUL 2010 <i>or</i> THE 2000	3
MAC 1105	3	<i>or</i> REL 2300 <i>or</i> PHI 2010	
Elective	3	SPC 1600	3

#### Sophomore Year

<b>Fall</b>	15 hrs	<b>Spring</b>	15 hrs
ACG 2021	3	ACG 2071	3
ECO 2023	3	STA 2023	3
BSC 1005	3	HSA 3111	3
EUH 2000 <i>or</i> HUM 2210	3	EUH 2001 <i>or</i> HUM 2230	3
<i>or</i> AMH 2010 <i>or</i> WOH 2012		<i>or</i> AMH 2020 <i>or</i> WOH 2022	
CGS 2100CC	3	Elective	3

#### Summer

	8 hrs
Foreign Language I	4
Foreign Language II (If not satisfied in high school)	4

#### Junior Year

<b>Fall</b>	15 hrs	<b>Spring</b>	15 hrs
HSC 4500	3	HSA 4191	3
HSA 3222	3	HSA 3170	3
HSC 3531	3	HSA 4180	3
HSA 4201	3	Elective	3
Elective	3	Elective	3

#### Senior Year

<b>Fall</b>	15 hrs	<b>Spring</b>	15 hrs
HSA 3430	3	HSC 4564	3
HSC 3640	3	HSA 4109	3
HSC 4653	3	Internship	3
HSA 4502 <i>or</i> HIM 4506	3	HSA 4702	3
Elective	3	Elective	3

#### Notes:

Students are urged to have access to a personal computer, modem, and appropriate software to interact with the University and professors.

A variety of internship opportunities are available for HSA majors. An internship is not required but highly recommended.

## HISTORY (B.A.)

**College of Arts and Humanities**

**History Department, CNH 551,**

**<http://pegasus.cc.ucf.edu/~history>**

**E-mail: [history@ucf.edu](mailto:history@ucf.edu)**

E. Kallina, 407-823-2224

**Admission Requirements** **none**

#### Degree Requirements

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

- Students must compile a portfolio of their written work in history, completed inside and outside the classroom
- Students must complete 36 hours in history
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

#### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
  - Select AMH 2010 US History: 1492-1877 3 hrs
  - Select AMH 2020 US History: 1877-Present 3 hrs
  - Select one class from 1.B.2 list 3 hrs
- C. Mathematical Foundations
  - Prefer MGF 1106 Finite Mathematics 3 hrs
  - (may substitute a higher level math)
  - Prefer CGS 1060C Intro to Computer Sci 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

#### 2. Common Program Prerequisites (0 hrs)

- AMH 2010\* US History: 1492-1877 GEP
- AMH 2020\* US History: 1877-Present GEP
- \*See Transfer Notes for possible substitutes

#### 3. Core Requirements (9 hrs)

- HIS 4150 History & Historians 3 hrs
- Select one sequence 6 hrs
  - EUH 2000, 2001 Western Civilization I & II
  - WOH 2012, 2022 World Civilization I & II

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

- (Must be taken within the History Department)
- Select six hours of approved history courses within three of the four geographic regions. 18 hrs
  - 1) Asian, African, and Middle Eastern
  - 2) British and European
  - 3) Latin American
  - 4) U.S. and Canadian
- Select three hours of approved history courses 3 hrs

#### 5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses attempted
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student's written work including, but not limited to, book critiques, in-class essay exams, and term papers.
- Computer Competency met by completion of the major
- Students must complete at least 18 of the required 36 History hours at UCF

#### 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of historical interest.

#### 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

#### 8. University Minimum Exit Requirements

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

**Total Semester Hours Required** **120 hrs**

# UCF Degree Programs

## Related Programs: Humanities

**Related Minors:** African-American Studies, American Studies, Asian Studies, Humanities, Judaic Studies, Latin American Area Studies, Women's Studies

## Transfer Notes:

- Grades below "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

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

- AMH 2010\* & 2020\*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

## Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

Fall		Spring	
AMH 2010 U S His 1492 1877	3	AMH 2020 U S His 1877 Pres	3
BSC 1005* req# 1E2-GEP	3	AST 2002* req# 1E1-GEP	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
POS 2041* req# 1D1-GEP	3	MGF 1106* req# 1C1-GEP	3
SPC 1600* req# 1A3-GEP	3	SYG 2000* req# 1D2-GEP	3

### Sophomore Year

Fall		Spring	
ARH 2050* req# 1B3-GEP	3	EUH 2001* req# 3-Core	3
CGS 1060C Intro to Comp Sci	3	Elective* Check restrictions	3
EUH 2000* req# 3-Core	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

### Junior Year

Fall		Spring	
HIS 4150 History & Histrns	3	ASH 3223* req# 4.1-ResEle	3
ASH 3222* req# 4.1-ResEle	3	EUH 3651* req# 4.2-ResEle	3
EUH 3315* req# 4.2-ResEle	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

### Senior Year

Fall		Spring	
LAH 3130* req# 4.3-ResEle	3	AMH 3423* req# 4.4-ResEle	3
AMH 3571* req# 4.4-ResEle	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	4
Elective* Check restrictions	3	Portfolio See catalog	0

## HISTORY ACCELERATED PROGRAM (B.A. and M.A.)

### Accelerated Undergraduate/Graduate Program

**Note:** For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Program" section of this *Undergraduate Catalog*.

## HOSPITALITY MANAGEMENT (B.S.)

### Rosen College of Hospitality Management

9907 Universal Boulevard

Orlando, Florida 32819

407-903-8000

<http://www.hospitality.ucf.edu>

E-mail: [hospitality@mail.ucf.edu](mailto:hospitality@mail.ucf.edu)

Dean: Abraham Pizam

### Degree Requirements

<b>1. UCF General Education Program</b>	<b>(36 hrs)</b>
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs

Select CGS 2100CC Computer Fundamentals for Bus or STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics <i>or</i> ECO 2023 Microeconomics	3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

### 2. Common Program Prerequisites (3 hrs)

HFT 1000 Introduction to Hospitality/Tourism	3 hrs
--	-------

### 3. Hospitality Management Core (52 hrs)

<b>A. Quantitative Tools</b>		
CGS 2100C or STA 2023	Computer Fundamentals of Business Statistical Methods I	(GEP)
ECO 2013 or ECO 2023	Macroeconomics	(GEP)
MAC 1105	MicroEconomics	(GEP)
	College Algebra	(GEP)
<b>B. Fundamentals</b>		(6hrs)
FSS 2221C	Quantity Food Preparation	3 hrs
HFT 3540	Guest Services Management	3 hrs
<b>C. Managerial Tools</b>		(27 hrs)
HFT 2403	Hospitality Financial Accounting	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 2500	Hospitality Marketing	3 hrs
HFT 2220	Hospitality Human Resource Mgmt	3 hrs
HFT 3444	Hospitality Information Systems	3 hrs
HFT 3600	Legal Environment in Hospitality	3 hrs
HFT 4295	Leadership and Strg Mgmt in Hospitality Ind	3 hrs
HFT 4286	Hospitality Communications	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
<b>D. Sectoral Studies – Choose 5 of the following 6 courses</b>		(15 hrs)
HFT 2254	Lodging Operations	3 hrs
HFT 3700	Tourism Management	3 hrs
HFT 2750	The Event Industry	3 hrs
HFT 3261	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park and Attraction Mgmt	3 hrs
<b>E. Internships</b>		(3 hrs)
HFT 3940	Internship I	1 hr
HFT 4941	Internship II	1 hr
HFT 4941	Internship III	1 hr
<b>F. Guest Lectures</b>		(1 hr)
HFT 3933	Distinguished Lectures in Hospitality Management	1 hr

### 4. Special College Requirements:

- Final exams will be given during Final Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

### 5. Restricted Electives:

Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the seven specialized career tracks as outlined below.

#### A. Generalist Track (15 hrs)

Choose five 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
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
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	Development of Vacation Ownership Resorts	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 4844	Sanitation Mgt in Foodservice Industry	3 hrs
HFT 4274	Vacation Ownership Resort Management	3 hrs

## UCF Degree Programs

HFT 4522	Vacation Ownership Resort Sales Tactics and Strategies	3 hrs	HFT 4787	Operational Issues in the Theme Park and Attraction Industry	3 hrs
HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs	HFT 3757	Event Management	3 hrs
HFT 4759	Product Development in Theme Parks and Attractions	3 hrs	HFT 4795	Entertainment Arts and Events	3 hrs
HFT 4758	Contemporary Issues in the Theme Park and Attraction Industry	3 hrs	HFT 3784	Amusement Technology	3 hrs
HFT 4532	Managing the Employee Experience in Theme Parks and Attractions Industry	3 hrs	<b>E. Tourism Management Track (15 hrs)</b>		
HFT 4269	Case Studies in Multi-Unit Restaurant Mgmt	3 hrs	HFT 4735	Tourism Geography	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs	HFT 4722	Travel Agency Management	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs	HFT 4762	Current Practices in the Airline Industry	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs	HFT 4754	Exhibit & Trade Show Operations	3 hrs
HFT 4253	Hotel Operations	3 hrs	HFT 3757	Event Management	3 hrs
FSS 3008	Culture and Cuisine	3 hrs	<b>F. Lodging Management Track (15 hrs)</b>		
HFT 3784	Amusement Technology	3 hrs	HFT 3313	Hospitality Physical Plant Management	3 hrs
HFT 3802	Catering Management	3 hrs	HFT 4343	Hospitality Facilities Planning & Design	3 hrs
HFT 3770	Cruise Line Operations and Management	3 hrs	HFT 4473	Hotel Development Analysis	3 hrs
HFT 3574	Food Service Marketing Advertising and Promotion Management	3 hrs	HFT 4253	Hotel Operations	3 hrs
HFT 3654	Franchising in the Restaurant Management	3 hrs	HFT 3515	Reservations Sales & Marketing	3 hrs
HFT 3610	Law and Restaurant Management	3 hrs	<b>G. Hospitality Financial Management and Technology (15 hrs)</b>		
HFT 3374	Multi Media Applications in Exhibitions	3 hrs	HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 3834	Topics in Restaurant and Foodservice Mgt	3 hrs	HFT 4473	Hotel Development Analysis	3 hrs
HFT 4375	Advanced Trade Show Management	3 hrs	HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4864	Seminar in Quality Brewing and Fine Beer	3 hrs	HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4425	Financial Analysis for Restaurant Managers	3 hrs	HFT 4413	Technology Applications for Management Decision Making	3 hrs
HFT 4786	Managing the Guest Experience in Theme Park and Attractions	3 hrs	<b>H. Golf Management Track – Choose 5 Courses (15 hrs)</b>		
HFT 4787	Operational Issues in the Theme Park and Attraction Industry	3 hrs	HFT 1350	Career and Promotional Development in Golf	3 hrs
HFT 4281	Restaurant Leadership Strategies and Tactics	3 hrs	HFT 1357	Golf Event Operations	3 hrs
HFT 4645	Restaurant Real Estate, Site Selection and Modeling	3 hrs	HFT 1356	Concepts and Practices of Golf Assoc.	3 hrs
HFT 4277	Yacht, Country, and City Club Management	3 hrs	HFT 2359	Design and Maintenance of Golf Equip	3 hrs
HFT 3285	International Restaurant Corporate Mgmt	3 hrs	HFT 3353	Golf Planning and Operations I	3 hrs
HFT 3511	Convention and Conference Sales	3 hrs	HFT 3355	Golf Planning and Operations II	3 hrs
HFT 3515	Reservations Sales & Marketing	3 hrs	HFT 3354	Agronomy for Golf Course Mgmt	3 hrs
HFT 4284	Training and Performance in the Food Svc Ind	3 hrs	HFT 4358	Golf Course Facility Design	3 hrs
HFT 4795	Entertainment Arts and Events	3 hrs	<b>6. Foreign Language Requirements (0-8 hrs)</b>		
HFT 4866C	Exploring Wines of the World	3 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.)		
HFT 3868	History of Wine and Culture	3 hrs	<b>7. University Minimum Exit Requirements</b>		
HFT 4894	International Gastronomy	3 hrs	<ul style="list-style-type: none"> <li>■ A 2.0 UCF GPA</li> <li>■ 48 semester hours of upper division credit completed</li> <li>■ 30 of the last 36 hours of course work must be completed in residency at UCF</li> <li>■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted</li> <li>■ Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)</li> </ul>		
HFT 3512	Event Promotion	3 hrs	<b>8. Unrestricted Electives (6-14 hrs)</b>		
HFT 3670	Hospitality and Event Risk Management	3 hrs	<b>As necessary to result in 120 total credit hours.</b>		
HFT 3785	Management of Gaming Enterprises	3 hrs	<b>Total Semester Hours Required 120 hours</b>		
HFT 3792	Event Design and Production	3 hrs	<b>Community/Junior College Transfer Notes</b>		
HFT 3798	Fairs and Festivals	3 hrs	<ul style="list-style-type: none"> <li>■ Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF College of Hospitality Management.</li> <li>■ Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.</li> <li>■ A minimum of 30 semester hours must be completed at UCF within the hospitality major.</li> <li>■ 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.</li> </ul>		
HFT 4255	Advanced Hotel Development	3 hrs	<b>FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*</b>		
HFT 4298	Hospitality Business Consulting	3 hrs	*Plan your required nine summer credit hours into your course of study.		
HFT 4561	Destination Marketing	3 hrs			
HFT 4791	Event Management II	3 hrs			
HFT 4796	International Events	3 hrs			
HFT 4865	Advanced Wine Management	3 hrs			
<b>B. Event Management Track – Choose 5 Courses (15 hrs)</b>					
HFT 4753	Convention and Conferences Services	3 hrs			
HFT 4754	Exhibit and Trade Show Operations	3 hrs			
HFT 3802	Catering Management	3 hrs			
HFT 3741	Meeting Management	3 hrs			
HFT 3757	Event Management	3 hrs			
HFT 3511	Convention and Conference Sales	3 hrs			
HFT 4795	Entertainment Arts and Events	3 hrs			
HFT 4375	Advanced Trade Show Management	3 hrs			
<b>C. Vacation Ownership Resort Management Track (15 hrs)</b>					
HFT 4275	Development of Vacation Ownership Resorts	3 hrs			
HFT 4274	Vacation Ownership Resort Management	3 hrs			
HFT 4522	Vacation Ownership Resort Sales Tactics and Strategies	3 hrs			
HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs			
HFT 4343	Hospitality Facilities Planning & Design	3 hrs			
<b>D. Theme Park and Attraction Mgmt Track – Choose 5 Courses (15 hrs)</b>					
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			
			<b>Freshman</b>		
			<b>Fall</b>		
			15 hrs	<b>Spring</b>	15 hrs
			ENC 1101	3 ENC 1102	3
			Cult-Hist I	3 Cult-Hist II	3
			CGS 2100CC or STA 2023	3 SPC 1600	3

# UCF Degree Programs

HFT 1000	3	HFT 2500 Hospitality Marketing	3
PSY 2012, SYG 2000 <i>or</i>	3	MAC1105 College Algebra	3
ANT 2000			

## Sophomore

<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
ECO 2013 <i>or</i> ECO 2023	3	Cult/Hist Foundation	3
Science Foundation I	3	Science Foundation II	3
Unrestricted Elective	3	HFT 2403 Hosp Fin Acct	3
HFT 3444 Hosp Info Sys	3	HFT 2220 Hosp Hum Res	3
Sectoral Study Course	3	FSS 2221C Quant Food Prep	3

## Junior

<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>16 hrs</b>
HFT 3540 Guest Svcs Mgmt	3	Sectoral Study Course	3
HFT 3600 Legal Environ	3	Sectoral Study Course	3
HFT 3431 Hosp Mgr Acct	3	Sectoral Study Course	3
Hospitality Elective	3	Hospitality Elective	3
HFT 3940 Internship I	1	HFT 3942 Internship II	1
HFT 3933 Dist Lect in Hosp	1	Sectoral Study Course	3

## Senior

<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
HFT 4941 Intership III	1	HFT 4295 Strat Mgt in Hosp	3
HFT 4286 Hospitality Communications	3	Hospitality Elective	3
Hospitality Elective	3	Hospitality Elective	3
Unrestricted Electives	8	Unrestricted Electives	3
		HFT 4462 Hospitality Finance	3

## HOSPITALITY MANAGEMENT (B.S.)

### A.S. to B.S. Track

Note: For detailed information about this program, see description in the AS to BS Programs section.

## HUMANITIES (B.A.)

### College of Arts and Humanities

### Philosophy Department, CNH 411,

<http://www.cas.ucf.edu/philosophy/>

E-mail: [philosophy@ucf.edu](mailto: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 2210 Humanistic Tradition I        | 3 hrs |
| Select HUM 2230 Humanistic Tradition II       | 3 hrs |
| Prefer PHI 2010 Intro to Philosophy <i>or</i> |       |
| REL 2300 World Religions                      | 3 hrs |
| C. Mathematical Foundations                   |       |
| Prefer MGF 1106 Finite Mathematics            | 3 hrs |
| (may substitute a higher level math)          |       |
| Prefer STA 1060C Statistics Using Excel       | 3 hrs |
| D. Social Foundations                         | 6 hrs |
| E. Science Foundations                        | 6 hrs |

### 2. Common Program Prerequisites none

### 3. Core requirements (6 hrs)

HUM 2210	Humanistic Traditions I	GEP
HUM 2230	Humanistic Traditions II	GEP
HUM 2020	Encountering the Humanities	3 hrs
HUM 4933	Humanities Senior Research Seminar	3 hrs

### 4. Concentrations (choose one) (23 hrs)

Note: Appropriate new, or special topics courses in philosophy or

humanities may be substituted for some courses with prior approval by department advisor.

### A. Classical Humanities:

- |  |                                       |         |
|--|---------------------------------------|---------|
| 1. Foundations                         |                                       | (9 hrs) |
| HUM 4301                               | The Classical Ideal                   | 3 hrs   |
| Select two courses                     |                                       | 6 hrs   |
| HUM 3431                               | Ancient Humanities                    |         |
| HUM 3435                               | Medieval Humanities                   |         |
| HUM 3255                               | Modern Humanities                     |         |
| 2. Western Traditions and Applications |                                       | (9 hrs) |
| ARH 4310                               | Italian Renaissance Art               |         |
| ARH 4170                               | Greek and Roman Art                   |         |
| HUM 3552                               | Christian Thought                     |         |
| HUM 3553                               | Moses, Jesus, & Mohammed              |         |
| CLA 3850                               | Classical Mythology                   |         |
| CLA 3851                               | Comparative Mythology                 |         |
| JST 3401                               | The Jewish People I                   |         |
| REL 3432                               | Roots of Western Mysticism            |         |
| Only one of the following may be taken |                                       |         |
| PHH 3100                               | Ancient Philosophy                    |         |
| PHH 3200                               | Medieval Philosophy                   |         |
| PHH 3460                               | Modern Western Philosophy             |         |
| 3. World Intellectual Traditions:      |                                       | (6 hrs) |
| ANT 3245                               | Native American Religions             |         |
| HUM 3401                               | Asian Humanities                      |         |
| HUM 3417                               | Hindu Thought and Culture             |         |
| HUM 3419                               | Islamic Thought and Culture           |         |
| HUM 3XXX                               | Latin American Humanities             |         |
| HUM 4303                               | The Spiritual Ideal                   |         |
| HUM 4554                               | Religious Quest and the Human Dilemma |         |
| PHI 3XXX                               | African Philosophy                    |         |

### B. Multicultural Humanities

- |                                |                                    |          |
|--------------------------------|------------------------------------|----------|
| 1. Foundations                 |                                    | (9 hrs)  |
| HUM 3320                       | Contemporary Multicultural Studies | 3 hrs    |
| Select one                     |                                    | 3 hrs    |
| HUM 3431                       | Ancient Humanities                 |          |
| HUM 3435                       | Medieval Humanities                |          |
| Select one                     |                                    | 3 hrs    |
| HUM 3252                       | Contemporary Humanities            |          |
| HUM 3255                       | Modern Humanities                  |          |
| 2. Traditions and Applications |                                    | (15 hrs) |
| ANT 3311                       | Indians of the Southeastern US     |          |
| ARH 3520                       | African Art                        |          |
| HUM 3401                       | Asian Humanities                   |          |
| HUM 3417                       | Hindu Thought and Culture          |          |
| HUM 3419                       | Islamic Thought and Culture        |          |
| HUM 3553                       | Moses Jesus and Mohammed           |          |
| HUM 3XXX                       | Latin American Humanities          |          |
| JST 3401                       | The Jewish People I                |          |
| PHH 3700:                      | American Philosophy                |          |
| PHM 3123                       | Feminist Theory                    |          |
| REL 3162:                      | Healing: Culture, Art, and Praxis  |          |

### C. Critical Humanities

- |                                |   |          |
|--------------------------------|---|----------|
| 1. Foundations                 |   | (9 hrs)  |
| HUM 3255                       | Modern Humanities                         |          |
| HUM 3252                       | Contemporary Humanities                   |          |
| PHI 4804                       | Critical Theory                           |          |
| 2. Traditions and Applications |   | (15 hrs) |
| HUM 4330                       | Performance Theory                        |          |
| HUM 4554                       | Religious Quest and the Human Dilemma     |          |
| HUM 3930                       | Representations of Place and Space        |          |
| PHH 3510                       | Marx and Nietzsche                        |          |
| PHH 3600                       | Contemporary Philosophy                   |          |
| PHI 3638                       | Ethical Issues in the 21st Century        |          |
| PHI 4321                       | Philosophy of Embodiment: Mind/Body/Self  |          |
| PHI 3033                       | Philosophy, Religion, and the Environment |          |
| PHI 3022                       | Sexuality, Gender, and Philosophy         |          |
| PHI 3803                       | Philosophy and Creativity                 |          |
| PHM 3123                       | Feminist Theories                         |          |
| PHP 3786                       | Existentialism                            |          |
| PHP 3783                       | Modernity as a Philosophical Problem      |          |
| PHP 4782                       | Phenomenology                             |          |
| REL 3111                       | Religion and Philosophy through Film      |          |
| REL 3115                       | Religion, Spirituality, and Popular Music |          |
| REL 3162                       | Healing: Culture, Art, and Praxis         |          |
| HUM 3800                       | Research Methods in Humanities            |          |

### 5. Upper division Restricted Electives (3 hrs)

Select one course from the "Traditions and Applications" category in the concentrations that are not being used to satisfy Core Requirements, or from the following:

HUM 4303 Spiritual Ideal  
 PHI 3700 Philosophy of Religion  
 PHI 3800 Aesthetics  
 or other courses as approved by advisor.

## 6. Honors in the Major

Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

**Core and Elective Requirements (30 hrs)**  
 Same requirements as for regular majors

### Honors Thesis

HUM 4903H	Honors Directed Readings	3 hrs
HUM 4970H	Honors Thesis	3 hrs

### Additional Requirements

- Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both HUM 4903H and HUM 4970H
- Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

## 7. Departmental Exit Requirements

- Earn a "C" (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4933, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

## 8. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

## 9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

## 10. University Minimum Exit Requirements

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

**Total Semester Hours Required 120 hours**

**Related Programs:** Religious Studies, Philosophy, Humanities-Philosophy, Religion, and Popular Culture

**Related Minors:** Environmental Studies, Humanities, Philosophy, Religious Studies

### Transfer Notes:

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

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

<b>Fall</b>		<b>Spring</b>	
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210 Hum Tradition I	3	HUM 2230 Hum Tradition II	3
MGF 1106* req# 1C1-GEP	3	STA 1060C* req# 1C2-GEP	3
REL 2300* req# 1B2-GEP	3	HUM 2020 Encountr the Hum	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
ANT 2511* req# 1E2-GEP	3	CHM 1020* req# 1E1-GEP	3
COM 1000* req# 1A3-GEP	3	POS 2041* req# 1D1-GEP	3
PSY 2012* req# 1D2-GEP	3	HUM 3255* req# 4A1-ClasHu	3
HUM 3431* req# 4A1-ClasHu	3	HUM 4301 The Clas Ideal	3
		Elective* Check restrictions	3

### Junior Year

<b>Fall</b>		<b>Spring</b>	
ARH 4310* req# 4A2-ClasHu	3	ANT 3245* req# 4A3-ClasHu	3
CLA 3851* req# 4A2-ClasHu	3	HUM 3417* req# 4A3-ClasHu	3
JST 3401* req# 4A2-ClasHu	3	PHI 3800* req# 5-ResEle	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

### Senior Year

<b>Fall</b>		<b>Spring</b>	
Elective* Check restrictions	3	HUM 4933 Senior Res Seminar	3
Elective* Check restrictions	3		
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
		Elective* Check restrictions	4

## HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)

**College of Arts and Humanities  
 Philosophy Department, CNH 411  
 e-mail:philosophy@ucf.edu**

Advisor: Bruce Janz, 407-823-2273; Fax: 407-823-6658

Advisor (Cocoa): Shelley Park; 321-433-7919

### Admission Requirements

none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a "C" (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select HUM 2210 Humanistic Tradition I	3 hrs
Select HUM 2230 Humanistic Tradition II	3 hrs
Select REL 2300 World Religions or PHI 2010 Intro to Phil	3 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics (May substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	
D. Social Foundations 6 hrs	
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites none

### 3. Core requirements

(18 hrs)

#### a. Core (0 hrs)

HUM 2210	Humanistic Traditions I	GEP
HUM 2230	Humanistic Traditions II	GEP
PHI 2010	Intro to Philosophy	GEP

#### b. Theoretical Foundations (6 hrs)

PHI 3684	Ways of Living	
PHI 4341	Ways of Knowing	

#### c. Philosophy (6 hrs)

Select two courses:

## UCF Degree Programs

PHI 2101	Critical Thinking
PHI 3670	Ethical Theory
PHI 3700	Philosophy of Religion
PHI 3800	Aesthetics
PHM 3100	Freedom and Justice
PHI 3720	Faith and Reason
PHP 3786	Existentialism
PHI 4804	Critical Theory
PHI 4300	Theories of Knowledge

### d. Religion

Select two courses:

CLA 3851	Comparative Mythology
HUM 3552	Christian Thought
HUM 3553	Moses, Jesus, and Mohammed
HUM 3417	Hindu Thought and Culture
HUM 3419	Islamic Thought and Culture
HUM 4303	The Spiritual Ideal
HUM 4554	Religious Quest and the Human Dilemma
PHI 3750	The Problem of Evil

(6 hrs)

### 4. Popular Culture Studies

(12 hrs)

#### a. Contemporary Media

Select two courses:

HUM 3320	Contemporary Multicultural Studies
HUM 4556	Religion and the Arts
HUM 4330	Performance Theory
PHI 3625	Virtual Ethics
PHI 4931	Philosophy in the News
POS 3235	Mass Media and Politics
POS 3258	Politics in Film
REL 3115	Religion, Spirituality and Popular Music
REL 3111	Religion and Philosophy through Film
SYP 3630	Sociology of Popular Culture

(6 hrs)

#### b. Contemporary Forms of Life

Select two courses:

ANT 3302	Sex, Gender and Culture
HUM 3252	Contemporary Humanities
PHI 3022	Sex, Gender and Philosophy
PHI 3930	Family Values
PHI 3033	Philosophy, Religion and the Environment
PHM 3401	Philosophy of Law
PHI 3638	Ethical Issues in the 21st Century
PHI 3683	Philosophy of Friendship
PHI 3XXX	Philosophy of Love
PHM 3123	Feminist Theories
PHI 4321	Philosophies of Embodiment: Mind/Body/Self
REL 3131	Religion in America
REL 3162	Healing: Culture, Art, and Praxis

(6 hrs)

### 5. Capstone Course

(3 hrs)

HUM 4933	Senior Research Seminar
----------	-------------------------

### 6. Honors in the Major (Optional)

Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

#### a. Core Requirements, Popular Culture and Capstone

(33 hrs)

Same requirements as for regular majors

#### b. Honors Thesis

(6 hrs)

HUM 4903H	Honors Directed Readings	3 hrs
HUM 4970H	Honors Thesis	3 hrs

#### c. Additional Requirements of Honors in the Major

- 95 Application and admission through the Humanities Honors Coordinator
- 95 Fulfill University requirements for Honors in the Major
- 95 Earn a "B" (3.0) or better in both HUM 4903H and HUM 4970H
- 95 Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
- 95 Successful completion and oral defense of Honors thesis

### 7. Departmental Exit Requirement

- Departmental Exit Exam in final semester.
- Earn a "C" (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4933, or STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

### 8. Foreign Language Requirements

(0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

### 9. Electives

(variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

### 10. University Minimum Exit Requirements

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

Total Semester Hours Required

120 hrs

Related Programs: Humanities or Religious Studies, Philosophy  
Related Minors: Humanities, Philosophy, Religious Studies

### Transfer Notes:

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

## INDUSTRIAL ENGINEERING (B.S.I.E.)

### College of Engineering and Computer Science

### Industrial Engineering & Management Systems (IEMS) Department

ENG2 312, 407-823-2204, Fax: 407-823-3413

<http://www.iems.ucf.edu/>

Sandy Furterer, E-Mail: [furterer@mail.ucf.edu](mailto:furterer@mail.ucf.edu)

### Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, **Orientation**, found elsewhere in this catalog.

### Degree Requirements

- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

### 1. UCF General Education Program for Engineering Students

(36+2 hrs)

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

A. Communication Foundations	9 hrs
1. Select ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Prefer ECO 2013 or ECO 2023.	
2. ANT 2000, PSY 2012, or SYG 2000.	
E. Science Foundations	7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)	
2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310	

### 2. Common Program Prerequisites (CPP's)

(19 hrs)

These courses are specifically required for all engineering students

of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. A 2.0 cumulative GPA or better is required for those courses in section 2, marked with an asterisk (\*). **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng* (CHM 2045C/45L will substitute)	4 hr
MAC 2311	Calculus with Analytic Geometry I*	GEP
MAC 2312	Calculus with Analytic Geometry II*	4 hrs
MAC 2313	Calculus with Analytic Geometry III*	4 hrs
MAP 2302	Differential Equations*	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I*	GEP
PHY 2049/49L	Physics for Engineers & Scientists II*	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities or Social Sciences		GEP

### 3. Courses Required for the Engineering Core (22 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses for the major listed in 4., the technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do **not** satisfy major requirements 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 3211	Engineering Analysis & Computation	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3358	Thermo-Fluids-Heat Transfer <i>or</i>	
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engnrng	3 hrs

### 4. Courses Required for the Major (40 hrs)

The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

EGN 3613	Engineering Economic Analysis	2 hrs
EGN 4624	Engineering Administration	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EIN 3000	Introduction to IE & MS	2 hrs
EIN 3314C	Work Measurement & Design	3 hrs
EIN 3354	Principles of Cost Engineering	3 hrs
EIN 4628C	IE Applications of Computers	3 hrs
EIN 4243C	Human Engineering	3 hrs
EIN 4333C	Industrial Control Systems	3 hrs
EIN 4364C	Industrial Planning & Design	3 hrs
EIN 4391C	Manufacturing Engineering	3 hrs
ESI 4221	Empirical Methods for IE	3 hrs
ESI 4234	Quality Engineering	3 hrs
ESI 4312	Operations Research	3 hrs
ESI 4523C	Systems Simulation	3 hrs

### 5. Approved Technical Electives (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 4516C Systems Analysis & Design 3 hrs
- EIN 4891C IE Senior Design Project 3 hrs
- Take the Fundamentals Exam during the Senior year.

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

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

**Graduation:** None.

### 8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.

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

**Total Semester Hours Required: 128 hrs**

**Related Programs:** Mechanical Engineering.

**Related Minors:** Engineering Leadership & Management

**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

<b>Fall</b>	<b>12 hrs<sup>1,2</sup></b>	<b>Spring</b>	<b>12 hrs<sup>1,2</sup></b>
*CHS 1440 Fund of Chm/Engrs	4	*ENC 1102 English Comp II	3
*ENC 1101 English Comp I	3	*MAC 2312 Calc with Analy Geo II	4
*MAC 2311 Calc with Analytic Geol	4	EGN 1007C Eng Conc&Meth	1
EGN 1006C Intro to Eng	1	*PHY 2048/L Phys Engr/Sci I	4

##### Summer 9 hours<sup>1</sup>

EGN 3211 Eng Anal-Comp	3
*SPC 1016 Tech Presentations	3
*ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3

##### SECOND YEAR

<b>Fall</b>	<b>13 hrs<sup>1</sup></b>	<b>Spring</b>	<b>12 hrs<sup>1</sup></b>
*PHY 2049/L Phys Engr/Sci II	4	EGN 3321 Engr Anal-Dynamics	3
EGN 3310 Engr Anal-Statics	3	*MAP 2302 Diff Equations	3
EIN 3000 Intro to IE & Mgt Sys	2	STA 3032 Prob & Stats Engrs	3
*MAC 2313 Calc with Analytic Geo III	4	EGN 3373 Prin of Elec Eng	3

##### Summer 10 hrs<sup>1</sup>

EGN 3365 Strctr & Prop Matls	3
EGN 3613 Engrng Econ Anal	2
*Social Foundations II	3
*EGN 1111C Cmpttr Graphics	2

##### THIRD YEAR

<b>Fall</b>	<b>12 hrs</b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
EIN 3314C Work Meas & Dsgn	3	EIN 4364C Indus Fcty Pln/Dsgn	3
EIN 4391C Mfg. Engr.	3	ESI 4221 Empirical Mthds - IE	3
EIN 3354 Princ of Cost Engrng	3	ESI 4523C Systems Simulation	3
ESI 4312 Operations Research	3	EIN 4243C Human Engrng	3
		EIN 4333C Industrial Cont Sys	3

##### Summer 9 hrs<sup>1</sup>

EGN 4624 Engineering Admin	3
EIN 3358 Therm-Flds-Ht Trans or EGN 3343 Thermodynamics	3
*Historical Foundations	3

##### FOURTH YEAR

<b>Fall</b>	<b>12 hrs</b>	<b>Spring</b>	<b>12 hrs</b>
EIN 4628C IE Computer Appl	3	EIN 4891C IE Sr. Design Proj	3
EIN 4516C Sys Anal & Dsgn	3	Technical Elective	3
ESI 4234 Quality Engineering	3	*Cultural Foundation	3
*Historical Foundation	3	*Science Foundation II	3

#### Notes:

1. Courses marked with an asterisk (\*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.

# UCF Degree Programs

2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

## Accelerated BS/MS Degree Program

The Industrial Engineering & Management Systems Department offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

## INFORMATION SYSTEMS TECHNOLOGY (B.S.)

### College of Engineering and Computer Science Engineering Technology (ENT) Department 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<br>(nine hours completed in AS degree program)  | 9 hrs |
| 1. ENC 1101 & ENC 1102   |       |
| 2. Prefer SPC 1016   |       |
| B. Cultural and Historical Foundations<br>(3 hrs taken in AS degree program) | 9 hrs |
| C. Mathematical Foundations  | 6 hrs |
| 1. Select MAC 1105   |       |
| 2. Select STA 2023<br>(completed in AS degree program)                       |       |
| D. Social Foundations  | 6 hrs |
| E. Science Foundations   | 6 hrs |

#### 2. Lower Level Required Courses Taken at Community College (33 hrs)

#### 3. Prerequisite Courses (14 hrs)

- |   |                                 |
|---|---------------------------------|
| (C or better grade required in all courses) |                                 |
| MAC 1105                                    | College Algebra and GEP         |
| MAC 1114                                    | College Trigonometry or 3 hrs   |
| MAC 2147                                    | Mathematics for Calculus 5 hrs  |
| EET 3085C                                   | Electricity & Electronics 4 hrs |
| CET 3323C                                   | Digital Technology 4 hrs        |
| CET 2364                                    | Systems Applications in C 3 hrs |

#### 4. Required Technical Courses (27 hrs)

- |   |                                      |
|---|--------------------------------------|
| (C or better grade required in all courses) |                                      |
| CET 3529                                    | Linux/Unix Sys Admin 3 hrs           |
| CET 3010                                    | Intro to Info Technology 3 hrs       |
| CET 4427                                    | Applied Database I 3 hrs             |
| CET 3383                                    | Applied Systems Analysis I 3 hrs     |
| CET 4505                                    | Applied Operating Systems I 3 hrs    |
| CET 3752                                    | Intro to Telephony 3 hrs             |
| CET 4483                                    | Intro to Local Area Network 3 hrs    |
| CET 4333                                    | Computer Organization & Design 3 hrs |
| CET 4748                                    | Wide Area Networks I 3 hrs           |

#### 5. IST Support Courses (6 hrs)

- |          |  |
|----------|--|
| ENC 3241 | Writing For Technical professional 3 hrs |
| ETI 4448 | Applied Proj Mgmt 3 hrs                  |
| STA 2023 | Statistical Methods GEP                  |

#### 6. Technical Electives (12 hrs)

- |   |                       |
|---|-----------------------|
| (C or better grade required in all courses) |                       |
| Choose four from the following:             |                       |
| CET 3198C                                   | Digital Systems 3 hrs |

- |           |                              |       |
|-----------|------------------------------|-------|
| CET 4138C | Digital Programmable Devices | 3 hrs |
| CET 4931  | Current Topics in Technology | 3 hrs |
| CET 4749  | Wide Area Network II         | 3 hrs |
| MAP 3401  | Problem Analysis             | 3 hrs |
| CET 4523  | Applied Systems Analysis II  | 3 hrs |
| CET 4429  | Applied Database II          | 3 hrs |
| CET 4583  | Web Base Systems I           | 3 hrs |
| CET 4584  | Web Base Systems II          | 3 hrs |
| CET 4663  | Computer & Networks Security | 3 hrs |
| STA 5937  | Data Mining I                | 3 hrs |
| CET 4884  | Security Meth & Pract        | 3 hrs |
| CET 4889  | Sec Sensor & Biomet          | 3 hrs |
| CET 4885  | Invest Digital Tech          | 3 hrs |

#### 7. Departmental Exit Requirements none

#### 8. Foreign Language Requirements (0-8 hrs)

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

#### Graduation: none

#### 9. 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.

#### 10. 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: none

#### Related Minors: Secure Computing and Networks

#### Transfer Notes:

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

#### Tentative Course Schedule for Transferring Students

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

Junior Year			
Fall	14 hrs	Spring	12 hrs
EET 3085C Elect & Electronics	4	Tech Elective	3
CET 3010 Intro to Info Tech	3	CET 3529 Linux/Unix Sys Admin	3
CET 2364 Systems Apps in C	3	MAC 1114 College Trigonometry	3



CET 3323C Digital Tech	4	CET 4483 Intro to Local Area Net	3
<b>Summer</b> <span style="float: right;"><b>9 hrs</b></span>			
CET 4333 Comp Org & Design	3		
ENC 3241 Tech Rept Writing	3		
ETI 4448 Applied Proj Mgmt	3		
<b>Senior Year</b>			
<b>Fall</b> <span style="float: right;"><b>12 hrs</b></span>		<b>Spring</b> <span style="float: right;"><b>12 hrs</b></span>	
CET 4505 Appl Oper Sys I	3	Tech Elective	3
CET 4427 Appl Database I	3	CET 4483 Intro to LocalArea Net	3
CET 3752 Intro toTelephony	3	Tech Elective	3
CET 4748 Wide Area Networks I	3	Tech Elective	3

## 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 TECHNOLOGY (B.S.)

**College of Engineering and Computer Science  
School of Electrical Engineering & Computer Science  
Harris Corp Engineering Ctr, Rm 245**

**E-mail: [it@cs.ucf.edu](mailto: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 (36 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites (3 hrs)

MAC 2147	Math for Calculus	GEP
STA 2023	Statistical Methods I	GEP
ECO 2013	Macroeconomics	GEP
PSY 2012	General Psychology	GEP
PHY 2053C	College Physics I	GEP
PHI 3626	Ethics in Science and Technology	3 hrs

### 3. Core Requirements (43 hrs)

COP 3223	C Programming Language	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
COP 3330	Object Oriented Programming	3 hrs
MAD 2104	Foundations of Discrete Mathematics	3 hrs
EEL 3041	Circuit Analysis	3 hrs
EEL 3520	Information Theory	3 hrs
CGS 3269	Computer Architecture Concepts	3 hrs
CGS 2545C	Database Concepts	3 hrs
EEL 4882	Eng. Sys. S/W (Operating Systems)	3 hrs
COP 4610L	OS Laboratory	3 hrs
CGS 3285	Computer Network Concepts	3 hrs
or CET 4483	Intro to Local Area Network Tech.	
CDA 4506C	Network Laboratory	3 hrs
COP 4910	Frontiers of Information Technology	3 hrs

A minimum grade of "C" (2.0) must be made on each of the required core courses. A three credit internship approved by the Information Technology Program Coordinator can substitute for the Frontiers in Information Technology (COP 4910) requirement.

### 4. Support Courses (6 hrs)

ENC 3241	Technical Report Writing	3 hrs
CRW 3930	Creative Writing (section for IT majors)	3 hrs

### 5. Restricted Electives (15 hrs)

15 hours of upper division courses taken outside of the information technology core requirements. At least nine of these hours must be at or above the 4000 level. The remaining six are at the 3000 level or above. These courses are in areas of the student's choosing. The only restriction is on the level of the courses, not the departments from which they come. However, students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby students can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

### 6. School Exit Requirements

- Complete an exit interview with an assigned faculty advisor
- Computer competency met by completion of major

### 7. Free Electives (14 hrs)

### 9. University Minimum Exit Requirements

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

### Total Semester Hours Required 120 hours

**Related Programs:** Computer Science, Computer Engineering, Management Information Systems

**Related Minors and Certificates:** Information Technology, Computer Science, Secure Computing and Networks

### Transfer Notes:

- Grades below "C" (2.0) are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

### FIRST YEAR

<b>Fall</b> <span style="float: right;"><b>17 hrs</b></span>	<b>Spring</b> <span style="float: right;"><b>15 hrs</b></span>
ENC 1101 English Comp I	ENC 1102 English Comp II
SPC 1600 Oral Communications	MAD 2104 Found of Discrete Math
MAC 2147 Math for Calculus	COP 3502C Comp Science I
COP 3223 C Programming	ECO 2013 Macroeconomics
Free Elective	PSY 2012 Psychology

### SECOND YEAR

<b>Fall</b> <span style="float: right;"><b>16 hrs</b></span>	<b>Spring</b> <span style="float: right;"><b>16 hrs</b></span>
COP 3330 Intro to OO/Java	COP 3503C CompScience II
LIT 2110 World Literature I	STA 2023 Statistical Methods I
PHY 2053C College Physics I	CGSC 2545 Database Concepts
EUH 2000 Western Civil I	EUH 2001 Western Civil II
Free Elective	BSC 1005 Biological Principles

### THIRD YEAR

<b>Fall</b> <span style="float: right;"><b>15 hrs</b></span>	<b>Spring</b> <span style="float: right;"><b>12 hrs</b></span>
EEL 4882 Eng Sys S/W	CGS 3269 Comp Arch Concepts
EEL 3041 Circuit Analysis	COP 4610L OS Laboratory
ENC 3241 Tech Rept Writing	PHI 3626 Adv Ethics in Sci & Tech
CET 4483 Intro to LAN Tech or	Upper division elective
CGS 3285 Comp Network Concepts	Free elective
Free elective	

### FOURTH YEAR

<b>Fall</b> <span style="float: right;"><b>15 hrs</b></span>	<b>Spring</b> <span style="float: right;"><b>15 hrs</b></span>
EEL 3520 Information Theory	COP 4910 Frontiers of IT
CDA 4506C Network Laboratory	CRW 3930 Creative Writing
Upper division elective	Upper division elective

# UCF Degree Programs

Upper division elective	3	Upper division elective	3
Free Elective	3	Free elective	3

A minimum of six upper division credit hours selected from courses in Anthropology, Business, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

## INTERPERSONAL/ ORGANIZATIONAL COMMUNICATION (B.A.)

College of Sciences

Nicholson School of Communication, COM 258  
407-823- 2852

<http://www.cas.ucf.edu/communication>

E-mail: [communication@ucf.edu](mailto:communication@ucf.edu)

Contact: Susan Jefferson

**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 with prior advisor approval
- Students cannot exceed a total of six credits of internship, Co-op, and independent study credits combined.
- 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
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	
Select ENC 1101 & ENC 1102	6 hrs
Select SPC 1600	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Prefer MGF 1106 (may substitute a higher level math)	3 hrs
Select STA 1060C or STA 2014C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites (0 hrs)

SPC 1016	Fund of Technical Presentations	GEP
----------	---------------------------------	-----

### 3. Core Requirements (15 hrs)

a. Select one course		
STA 1060C	Basic Statistics Using Excel	
STA 2014C	Principles of Statistics	
b. Complete the following		
COM 3011C	Communication & Human Relations	3 hrs
COM 3120	Organizational Communication	3 hrs
COM 3311	Communication Research Methods	3 hrs
SPC 3301	Interpersonal Communication	3 hrs
c. Select one course		
PUR 4110C	Public Relations Publications	
CGS 2100CC	Computer Fundamentals for Business	
CGS 2585C	Desktop/Internet Publishing (PR: CGS 1060C)	
CGS 3175	Internet Applications (PR: CGS 1060C)	

### 4. Restricted Electives (21 hrs)

Select from the following list:

COM 3013	Communication and the Family
COM 3110	Business and Professional Communication
COM 4014	Gender Issues in Communication
COM 4461	Intercultural Communication
COM 4462	Conflict Management
SPC 3513	Argumentation and Debate
SPC 4331	Nonverbal Communication
SPC 4426	Group Dynamics
SPC 4540	Attitudes and Communication

A maximum of 6 credits of any combination of the following can be used

COM 4941	Internship
COM X949	Coop
SPC X949	Coop
COM 4906	Directed Independent Study

A maximum of 3 credits of the following can be used

ENC 3250	Professional Writing
ENC 3311	Adv Expository Writing
ENC 3241	Writing for the Tech Professional

### 5. External Restricted Electives (6 hrs)

### 6. School Exit Requirements

- Achieve a "C" (2.0) or better average GPA in Nicholson School courses
- To avoid graduation delays, meet with your advisor to review graduation requirements before registering for your last term
- Computer Competency met by achieving a "C" (2.0) or better in PUR 4110C, CGS 2100CC, CGS 2585C, CGS 3175, or by departmental assessment

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

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 8. Electives (variable)

Select primarily from upper level courses. May be taken outside of the School of Communication.

### 9. University Minimum Exit Requirements

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

### Total Semester Hours Required 120 hrs

**Related Minors:** Mass Communication, Interpersonal Communication, Organizational Communication.

### Transfer Notes:

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

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Freshman Year

<b>Fall</b>		<b>Spring</b>	
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	EUH 2000* req# 1B1-GEP	3
Elective* Check restrictions	4	STA 2014C Prin of Statistics	3
SPN 1120* req# Lang/Elect	4	Elective* Check restrictions	3
		SPN 1121* req# Lang/Elect	4

#### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
ANT 2000* req# 1D2-GEP	3	ARH 2050* req# 1B3-GEP	3
BSC 1005* req# 1E2-GEP	3	POS 2041* req# 1D1-GEP	3
MUL 2010* req# 1-GEP	3	PSC 1121* req# 1E1-GEP	3
SPC 1600 Fund of Oral Com	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

#### Junior Year

<b>Fall</b>		<b>Spring</b>	
COM 3011C Com Reltn	3	COM 3013* req# 4-ResElec	3
COM 3311 Com Res Methods	3	COM 3110* req# 4-ResElec	3
PUR 4110C* req# 3-Core	3	COM 4014* req# 4-ResElec	3
ENC 3250* req# 4-ResElec	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

#### Senior Year

Fall	Spring
COM 3120 Org Communication	3 COM 4462* req# 4-ResElec
SPC 3301 Intpers Com	3 COM 4941* req# 4-ResElec
COM 4461* req# 4-ResElec	3 MAR 3023* req# 5-Ext RE
PUP 3325* req# 5-Ext RE	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

## JOURNALISM (B.A.)

### College of Sciences

### Nicholson School of Communication,

**COM 244, 407-823-2839,**

<http://www.cas.ucf.edu/communication>

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

Contact: Fred Fedler

#### Limited Access program

#### Admission Requirements

- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
  - October 1 to be admitted the next Spring term
  - February 1 to be admitted the next Summer term
  - July 1 to be admitted the next Fall term
- Admission is based on multiple factors, not strictly GPA.
- Attain an overall minimum 2.25 GPA based on a minimum of 30 credit hours of college work. NOTE: Meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis.
- Meet a grammar proficiency standard. Students with an "A" in both ENC 1101 and ENC 1102 have satisfied the requirement. All others must pass a grammar proficiency exam administered by UCF's Counseling and Testing Center.
- Have acceptable keyboard skills.
- Submit a letter demonstrating commitment to the field.

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- The Journalism faculty strongly recommends that majors work for a student newspaper.
- Journalism majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine.
- To receive credit for an internship, students must have a 2.5 GPA in their required major courses. Students with less than a 2.5 GPA will not be given academic internship credit.
- Students can enroll in a maximum of three 2-credit internships. However, the internships must be with different employers. Each internship must be approved by and supervised by a Journalism faculty advisor.
- Students cannot exceed a total of seven credits of internship, Co-op, and practicum credits combined.
- A portfolio of representative work must be submitted to, and approved by, a faculty committee at least one semester before graduation. At least 75% of the work must be produced while at UCF.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a school advisor.
- School Residency Requirement consists of at least 24 semester hours including JOU 2100C and regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.
- All students are required to pay a fee for equipment insurance.
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication
- Journalism majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

## 1. UCF General Education Program

**(36 hrs)**

- A. Communication Foundations
  - Select ENC 1101 & ENC 1102 6 hrs
  - Select SPC 1600 or SPC 1016 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
  - Select MGF 1106 (may substitute a higher level math) 3 hrs
  - prefer CGS 1060C or STA 2014C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

## 2. Common Program Prerequisites:

**(0 hrs)**

- Select one course
- |          |                                 |
|----------|---------------------------------|
| SPC 1016 | Fund of Technical Presentations |
| SPC 1600 | Fund Oral Communication         |

## 3. Common Core requirements

**(15 hrs)**

- |                        |                        |       |
|------------------------|------------------------|-------|
| JOU 2100C <sup>†</sup> | News Reporting         | 3 hrs |
| JOU 3201*              | Editing I              | 3 hrs |
| MMC 4200               | Mass Communication Law | 3 hrs |
| JOU 4XXX               | Journalism Ethics      | 3 hrs |
| JOU 4324C              | Converged Journalism   | 3 hrs |

\* Grammar Proficiency Examination required.

<sup>†</sup> Must earn at least a "C" (2.0) to enroll in subsequent courses

## 4. Specialization: Select one area

### 4.1 Newswriting

**(17-18 hrs)**

- a. Required courses
 

JOU 3XXX <sup>†</sup>	Metro Reporting	3 hrs
JOU 3101	Advanced Reporting	3 hrs
JOU 4181	Public Affairs Reporting	3 hrs

<sup>†</sup> Must earn at least a "C" (2.0) to enroll in subsequent courses

- b. Directed Electives (Select from the following) 8-9 hrs

- |           |                                 |
|-----------|---------------------------------|
| MMC 2004  | Mass Media                      |
| JOU 3004  | History of American Journalism  |
| PGY 3610C | Photojournalism I               |
| JOU 3202  | Editing II                      |
| JOU 3313C | Sports Reporting                |
| JOU 4224  | Magazine Editing and Production |
| JOU 4300  | Feature Writing                 |
- Any other JOU prefix writing elective, or one 2 credit JOU internship

### 4.2 Visual Communication

**(17-18 hrs)**

- a. Required courses
 

VIC 3001	Visual Communication	3 hrs
JOU 4223C	Page Design	3 hrs
JOU 4211C	Informational Graphics	3 hrs
PGY 3610C	Photojournalism I	3 hrs

- b. Directed Electives (5-6 hrs)

- Select two courses from the following
- |                      |                                |
|----------------------|--------------------------------|
| MMC 2004             | Mass Media                     |
| JOU 3004             | History of American Journalism |
| JOU 4340C            | On-line Journalism             |
| PGY 3620C            | Photojournalism II             |
| PGY 3630             | Photojournalism III            |
| CGS 2585C            | Desktop/Internet Publishing    |
| JOU 3930 or JOU 4941 | Internship                     |
- (2 credits maximum)

### 4.3 Editing

**(17-18 hrs)**

- a. Required courses
 

JOU 3202	Editing II	3 hrs
JOU 4223C	Page Design	3 hrs
JOU 3101	Advanced Reporting	3 hrs
JOU 4211C	Informational Graphics	3 hrs

- b. Directed Electives (Select from the following) 5-6 hrs

- |           |                                 |
|-----------|---------------------------------|
| MMC 2004  | Mass Media                      |
| PGY 3610C | Photojournalism I               |
| JOU 3004  | History of American Journalism  |
| JOU 4224  | Magazine Editing and Production |
| VIC 3001  | Visual Communication            |
- Any other JOU prefix writing elective, or one 2 credit JOU internship

## Minor:

**(18 hrs min)**

Journalism majors must complete an 18 hour minor in an academic area outside of the School of Communication. When no official minor is offered, students may complete an 18-credit-hour area concentration approved by the Faculty.

## 6. School Exit Requirements

- Acceptance of portfolio by faculty
- To avoid delaying graduation, you must request a review of

# UCF Degree Programs

- requirements before registering for your last term
- Achieve an overall "C" GPA (2.0) in courses taken within the school used to satisfy the major.
- Computer Competency met by CGS 1060C or by departmental assessment .

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

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 8. Electives (variable)

Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

## 9. University Minimum Exit Requirements

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

**Total Semester Hours Required 120 hours**

**Related Programs:** Technical Writing, Creative Writing

**Related Minors:** Creative Writing, History, Literature, Linguistics, Magazine Journalism (not available to Journalism majors), Political Science, Sociology, Technical Writing, Writing

### Transfer Notes:

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

## LEGAL STUDIES (B.A., B.S.)

**College of Health and Public Affairs**  
**HPA1 311, 407-823-2603**

<http://www.cohpa.ucf.edu/crim.jus/>

*Undergraduate Program Director and Pre-Law Advisor:* David Slaughter

E-mail: [dslaught@mail.ucf.edu](mailto:dslaught@mail.ucf.edu)

**Admission Requirements none**

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- 33 hours of PLA coursework must be taken at UCF
- 2.0 in all PLA work at UCF and overall

### 1. UCF General Education Program (36 hrs)

- |                                    |       |
|------------------------------------|-------|
| A. Communication Foundations       | 9 hrs |
| 1. ENC 1101 & ENC 1102             |       |
| 2. Prefer SPC 1600                 |       |
| B. Cultural Historical Foundations | 9 hrs |
| C. Mathematical Foundations        | 6 hrs |
| D. Social Foundations              | 6 hrs |
| E. Science Foundations             | 6 hrs |

### 2. Common Program Prerequisites none

### 3. Core Requirements (21 hrs)

- |          |                          |       |
|----------|--------------------------|-------|
| PLA 3013 | Law and the Legal System | 3 hrs |
| PLA 3104 | Legal Research*          | 3 hrs |

- |          |                                   |       |
|----------|-----------------------------------|-------|
| PLA 3155 | Legal Writing*                    | 3 hrs |
| PLA 3201 | Civil Practice and Procedure      | 3 hrs |
| PLA 3610 | Property and Real Estate Law      | 3 hrs |
| PLA 4700 | Professional Ethics and Liability | 3 hrs |
| PLA 4935 | Capstone: Legal Issues*           | 3 hrs |

NOTE: Courses marked with asterisk (\*) must be completed with a minimum grade of "C" (2.0) to satisfy the major.

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

21 additional hours of Legal Studies coursework selected in consultation with an advisor

### 5. Supporting Courses (9-15 hrs)

Students pursuing the B.A. degree must complete nine semester hours of supporting courses chosen with the approval of the student's advisor. Students pursuing the B.S. degree must complete 15 hours of supporting courses chosen with the approval of the student's advisor.

### 6. Specializations

Students may earn a specialization within the general program of study. The specializations do not substitute for the general legal studies degree requirements; they are earned within the general program by selecting particular courses to satisfy the legal studies restricted electives and supporting courses requirements. Students are not required to declare a specialization. The following specializations are offered:

- Law and Society
- Litigation and Advocacy
- Public Law
- Sports and Entertainment Law
- Criminal Law and Individual Liberties
- Estates and Property Law
- Comparative and International Law
- Commercial and Transactional Law

A student may earn a maximum of two specializations. Specific course requirements are available at the department office or from the student's advisor.

### 7. Departmental Exit Requirements (120 hrs)

Students must take a minimum of 33 hours of PLA courses at UCF. The total semester hours required is 120.

### 8. Electives (variable)

The following electives must be completed with a minimum grade of "C" (2.0): PLA 4020, PLA 4240, PLA 4910

### 9. Foreign Language Requirements (0-8 hrs)

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

**Graduation:** Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level.

### 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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:** 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

<b>Freshman Year*</b>			
<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>15/16 hrs</b>
ENC 1101	3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000	3	CGS 1060C	3
MGF 1106	3	ECO 2013 <i>or</i> POS 2041	3
BSC 1005 <i>or</i> MCB 1310	3	<i>or</i> ECO 2023	
PAF 2102	2	For. Lang. I or B.S. option	3/4
		Elective	3
<b>Sophomore Year</b>			
<b>Fall</b>	<b>15/16 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
ANT 2511 <i>or</i> GLY 1030	3	PSC 1121 <i>or</i> CHM 1020	3
<i>or</i> GEO 1200		PLA 3013	3
SPC 1600	3	One Course: ARH 2050	3
EUH 2000 <i>or</i> HUM 2210	3	ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	
<i>or</i> AMH 2010		EUH 2001 <i>or</i> HUM 2230	3
For. Lang. II <i>or</i> B.S. option	3/4	<i>or</i> AMH 2020	
Elective	3	Elective	3
<b>Junior Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
PLA 3104	3	PLA 3155	3
PLA 3201	3	PLA 3610	3
PLA Elective	3	PLA Elective	3
PLA Elective	3	PLA Elective	3
Supporting Elective	3	Supporting Elective	3
<b>Senior Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
PLA 4700	3	PLA 4935	3
Internship <i>or</i> PLA Elective	3	Internship or PLA Elective	3
Supporting Elective	3	PLA Elective	3
Elective/minor	3	Elective/minor	3
Elective/minor	3	Elective	3

## LIBERAL STUDIES (B.A., B.S.)

**Office of Undergraduate Studies**  
**Office of Liberal and Interdisciplinary Studies**  
**CL-I, Room 302; <http://liberalstudies.info>**  
**E-mail: [ls@mail.ucf.edu](mailto: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 Studies in the Office of Undergraduate Studies 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 online courses. For more information, see <http://online.ucf.edu/>.

**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 credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study or internship for use in the Liberal Studies areas. Non-approved independent studies or internships will not be counted towards the major

- Students must earn at least a "C" (2.0) in each restricted elective course
- Students must consult with a Liberal Studies advisor to enter the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
  - Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course) 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

### 2. Common Program Prerequisites none

### 3. Restricted Electives (36 hrs)

- Students must complete two different subject area concentrations from among those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
- See the Liberal Studies Advising Team for details regarding each area:
  - Arts
  - Behavioral and Social Sciences
  - Commerce
  - Communication
  - Computer Science
  - Education
  - Engineering
  - Health and Biomedical Sciences
  - Humanities
  - Letters and Modern Languages
  - Natural Sciences
  - Public Affairs

### 4. Required Minor (18 hrs minimum)

Students must complete a minor from those offered at UCF. The minor cannot overlap with the two subject areas. Minimum hours for a minor is eighteen. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

### 5. Program Exit Requirements

- A grade of "C" or above (2.0) is required for each course taken in each of the subject areas.
- Computer Competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

### 6. Foreign Language Requirements (0-8 hrs)

**Admission-BA:** Met by graduation requirement

**Admission-BS:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

**Graduation: -BA:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**Graduation: -BS:** Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the require-

# UCF Degree Programs

ment.

**Note:** Students entering without having met the admission requirements must do so in order to graduate

## 7. Electives (variable)

Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of the department.

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required** 120 hrs

**Related Programs:** Computer Information Technology Track, Liberal Arts Track, Environmental Studies Track, Women's Studies Track

**Related Minors:** Most UCF minors

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

## LIBERAL STUDIES - COMPUTER INFORMATION TECHNOLOGY TRACK (B.S.)

**Office of Undergraduate Studies**

**Office of Liberal and Interdisciplinary Studies**

**CL-I, Room 302; <http://liberalstudies.info>**

**E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)**

Liberal Studies Advising Team, 407-823-0144

**College of Engineering and Computer Science**

**School of Electrical Engineering and Computer Science, CSB 201**

**E-mail: [computerscience@ucf.edu](mailto:computerscience@ucf.edu)**

Mark Llewellyn, 407-823-2341

There are numerous opportunities in industry for qualified people to work in the broad area of Information Technology (IT). Computer Science represents only a part of this IT umbrella. Students can go beyond a narrower technical focus to include system, network, and database administration; business principles and behavior; social science behavior and theories; and other areas.

This LS-CIT track fills the gap between the fully accredited degree program in Computer Science which emphasizes the scientific aspects of computing, and the needs of the IT industry for people with skills in broader areas of information technology. By completing this track within Liberal Studies, students can accentuate those areas of computer information and application, while de-emphasizing the mathematical and physical science components of Computer Science.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

**Admission Requirements** none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major

- Students must earn at least a "C" (2.0) in each restricted elective and minor course
- Students should consult with departmental advisors within both the Liberal Studies program and Computer Science when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

## 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

## 2. Common Program Prerequisites none

## 3. Required Computer Science Minors (36 hrs)

- Students must complete the Computer Science minor and the Information Technology minor (Option 3). See the requirements for these two minors in the catalog minor degree section.

## 4. Restricted Electives (18 hrs)

- Students must complete a minimum of 18 hours of approved 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 all upper level courses in the area
- See the Liberal Studies Advising Team for details regarding each area
  - Arts
  - Behavioral and Social Sciences
  - Commerce
  - Communication
  - Education
  - Engineering
  - Health and Biomedical Sciences
  - Humanities
  - Letters and Modern Languages
  - Natural Sciences
  - Public Affairs

## 5. Program Exit Requirements

- A grade of "C" or above (2.0) is required for each course taken in the subject areas and the minors
- Computer Competency is met by CIT major.

## 6. Foreign Language Requirements (0-8 hrs)

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

**Graduation-BS:** Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Modern Languages and Literatures, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

**Note:** Students entering without having met the admission requirement must do so in order to graduate

## 7. Electives (variable)

Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of the department.

## 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

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

**Total Semester Hours Required** **120 hrs**

Related Programs: Computer 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.)

**Office of Undergraduate Studies**

**Office of Liberal and Interdisciplinary Studies**

**CL-I, Room 302; <http://liberalstudies.info>**

**E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)**

Liberal Studies Advising Team, 407-823-0144

**Admission Requirements** **none**

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Internship credit cannot be used in this major without prior written permission of a Liberal Studies advisor
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Co op credit cannot be used in this major
- Students must earn at least a "C" (2.0) in each required course in the core and subject areas
- Students should consult with a Liberal Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

### 1. UCF General Education Program (36 + 2 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations           | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations            | 6 hrs |
| Select MAC 1105 or higher              |       |
| Select STA 2023                        |       |
| D. Social Foundations                  | 6 hrs |
| Select ECO 2013 or ECO 2023            |       |
| Select SYG 2000                        |       |
| E. Science Foundations                 | 8 hrs |
| Select BSC 2010C                       |       |
| Select CHM 2045C                       |       |

### 2. Common Program Prerequisites none

### 3. Core for Environmental Studies (11 hrs)

- |                                   |                              |       |
|-----------------------------------|------------------------------|-------|
| A. Physical/Mathematical Sciences |                              |       |
| CHM 2045C                         | Chemistry Fundamentals I     | GEP   |
| MAC 1105                          | College Algebra or higher    | GEP   |
| PSC 1121                          | Physical Science I           | 3 hrs |
| STA 2023                          | Statistical Methods I        | GEP   |
| B. Life Sciences                  |                              |       |
| BSC 2010C                         | Biology I                    | GEP   |
| BSC 2011C                         | Biology II                   | 4 hrs |
| PCB 3044 /3044L                   | Principles of Ecology & Lab  | 4 hrs |
| C. Social Science & Humanities    |                              |       |
| ECO 2013                          | Principles of Macroeconomics |       |

- |          |                              |     |
|----------|------------------------------|-----|
| Or       |                              |     |
| ECO 2023 | Principles of Microeconomics | GEP |
| SYG 2000 | General Sociology            | GEP |

### 4. Subject Area: Environmental Studies Fundamentals (19 hrs)

- |           |  |       |
|-----------|--|-------|
| IDS 3150  | Foundations of Environmental Studies           | 3 hrs |
| ECP 3303  | Economics and the Environment                  | 3 hrs |
| GEO 3043C | GIS for Environmental Studies                  | 3 hrs |
| 4301C     | Advanced GIS Applications for Environ. Studies | 4 hrs |
| PUP 3203  | Environmental Politics                         | 3 hrs |
| SYD 4510  | Environmental Sociology                        | 3 hrs |

### 5. Subject Areas: Restricted Electives (18 hrs)

Students will complete one of the concentrations listed below. Each concentration requires a minimum of eighteen credit hours. A student completing the Environmental Studies core can reasonably expect to meet entry requirements for most electives listed.

Select 18 hours in one concentration

#### Sciences Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

- |           |  |
|-----------|--|
| BCH 4053  | Biochemistry I                               |
| BCH 4054  | Biochemistry II                              |
| BOT 3152C | Local Flora                                  |
| BOT 3800  | Ethnobotany                                  |
| BOT 4156C | Florida Wildflowers                          |
| BOT 4303C | Plant Kingdom                                |
| BOT 4686C | Conservation and Management of Native Plants |
| BOT 4713C | Plant Taxonomy                               |
| BSC 4312C | Marine Biology                               |
| CHM 31020 | Analytical Chemistry                         |
| EES 3004  | Environmental Systems                        |
| OCE 3008  | Oceanography                                 |
| PCB 3063  | Genetics                                     |
| PCB 3304C | River Ecology                                |
| PCB 3314  | Marine Biodiversity                          |
| PCB 3442  | Florida Aquatic Ecology                      |
| PCB 4302C | Physiochemical Limnology                     |
| PCB 4303C | Biological Limnology                         |
| PCB 4683  | Population Biology & Evolution               |
| PCB 4723  | Animal Physiology                            |
| PCB 5045C | Conservation Biology                         |
| PCB 5326C | Ecosystems of Florida                        |

#### Values, Planning, & Policy Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

- |           |  |
|-----------|--|
| ANT 3541  | Biobehavioral Anthropology                 |
| BOT 3800  | Ethnobotany                                |
| ECP 4302  | Economics of the Environment               |
| ECP 4603  | Urban and Regional Economic Problems       |
| ENC 3211  | Theory and Practice of Technical Writing   |
| ENC 3241  | Writing for the Technical Professional     |
| ENC 4360  | Nature Writing                             |
| GEO 4035C | Remote Sensing of Environment              |
| INR 4351  | International Environmental Law            |
| PAD 3330  | Urban and Regional Planning                |
| PAD 4351  | Issues in Environmental Program Management |
| PHI 3033  | Philosophy, Religion, & the Environment    |
| PHI 3640  | Environmental Ethics                       |
| PHI 4400  | Philosophy of 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                 |

### 6. Program Exit Requirements (0-8 hrs)

- A grade of "C" or above (2.0) is required for each course taken in the subject areas and core
- Computer Competency is met by completing this major

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

**Admission-BS:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation

**Graduation-BS:** Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Modern Languages and Literatures, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

# UCF Degree Programs

## 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.)

### Office of Undergraduate Studies

### Office of Liberal and Interdisciplinary Studies

CL-I, Room 302; <http://liberalstudies.info>

E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)

Liberal Studies Advising Team, 407-823-0144

The Liberal Arts Track is a Bachelor of Arts degree program available to advanced students seeking an individualized, interdisciplinary, non-traditional major. The degree program is administered by the Office of Liberal and Interdisciplinary Studies within the Office of Undergraduate Studies.

**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
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
  - Select CGS 1060C Intro to Computer Sci *or* STA 2014C Principles of Statistics *or* STA 1060C Statistics Using Excel (may substitute a higher level computer science or statistics course)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

## 2. Common Program Prerequisites None

## 3. Core Requirements (6 hrs)

One course determined between the student and Liberal Studies advisors from among courses in ethics, critical thinking, or methodologies

## 4. Restricted Electives (36 hrs)

Select one (either A or B):

- a. Complete a minor from those offered at UCF 18 hrs
- b. Complete an individualized minor approved by the Liberal Studies advisors 18 hrs

and

Select one (either C or D):

- c. Complete a second minor from those offered at UCF in the College of Arts and Humanities or College of Sciences 18 hrs
- d. Complete nine hours in each of two concentrations below: 18 hrs
  - 1. Visual and Performing Arts
  - 2. Natural and Computational Sciences
  - 3. Humanities, Letters and Modern Languages
  - 4. Behavioral, Social Sciences, Communication

## 5. Program Exit Requirements (3 hrs)

Select one of these options, any of which must be approved by the Liberal Studies advisors:

- IDS 4912 Directed Independent Research
- IDS 4955 Study Abroad
- IDS 4970 Undergraduate Thesis

- Students must take a minimum of 18 hours of approved restricted elective 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 restricted elective courses.
- Maintain a minimum GPA of 3.0 in all Liberal Arts Track courses

## 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required 120 hrs**

**Related Programs:** 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 - NANOSCIENCE & NANOTECHNOLOGY TRACK (B.S.)**

**Office of Undergraduate Studies  
Office of Liberal and Interdisciplinary Studies  
CL-I, Room 302; <http://liberalstudies.info>  
E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)**

Liberal Studies Advising Team, 407-823-0144

Liberal Studies Nanoscience & Nanotechnology track is a university-wide program leading to a Bachelor of Science in Liberal Studies.

Nanoscience and Nanotechnology is the study of the structure and behavior of materials at the atomic or molecular level. Through an understanding of how to manipulate atoms and molecules, it is possible to create devices and machines with unique properties and diverse applications.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

**Admission Requirements** **none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each restricted elective course
- Students should consult with a Liberal Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- 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

<b>1. UCF General Education Program</b>	<b>(36 hrs)</b>
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
2. Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course)	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs
1. Prefer: PHY 2053C College Physics (prerequisites MAC 1105 and MAC 1114) or equivalent	
2. Select one class from the listed choices	

**2. Common Program Prerequisites** **none**

**3. Restrictive Electives** **(36 hrs)**

- Students must complete both subject area concentrations from among those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses).
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
- See the Liberal Studies Advising Team for details regarding each area

**Subject Area #1**

- Nanoscience and Nanotechnology Area
- EMA 3XXX Nanomaterials Process Engineering
- EMA 3XXX Nanomaterials Characterization & Appl
- PHZ 3422 Nanophysics
- BSC 3424 Nanobiotechnology
- OSE 3490 Nanophotonics
- PHI 4690 Ethics & Societal Implications in Nanotechnology

**Subject Area #2 (one of the following areas)**

- Computer Science
- Engineering
- Health and Biomedical Sciences
- Natural Sciences

**4. Required Minor (18 hrs min)**

The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements.

Student must complete a minor from those offered below. The minor must not overlap with the area chosen for Subject area #2. (The area designation for each minor is listed in parentheses). The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

- Aerospace Studies (Engineering)
- Computer Science (Computer Science)
- Astronomy (Natural Sciences)
- Biology (Natural Sciences)
- Chemistry (Natural Sciences)
- Cognitive Science (Interdisciplinary)
- Information Technology (Computer Science)
- English-Technical Writing (Letters and Modern Languages)
- Environmental Studies (Interdisciplinary)
- Health Science (Health and Biomedical Sciences)
- Mathematics (Natural Sciences)
- Molecular Biology & Microbiology (Health & Biomedical Sciences)
- Physics (Natural Sciences)
- Psychology (Behavioral and Social Sciences)
- Space Studies (Engineering)
- Statistics (Natural Sciences)

**5. Departmental Exit Requirements**

- A grade of "C" or above (2.0) is required for each courses taken in each of the subject areas
- Computer Competency met by completion of track area and minor requirements.

**6. Foreign Language Requirement (0-8 hrs)**

**Admission-BS:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

**Graduation-BS:** One semester college language or equivalent proficiency exam, or one course with a multicultural dimension

**Note:** Students entering without having met the admission requirements must do so in order to graduate

**7. Electives (variable)**

Select primarily from upper level courses, with a Liberal Studies advisor's approval.

**8. University Minimum Exit Requirements**

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

**Total Semester Hours Required** **120 hours**

**Related Programs:** Computer Information Technology Track, Environmental Studies Track

**Related Minors:** Aerospace Studies, Applied Computer Science, Astronomy, Biology, Chemistry, Computer Science,

## UCF Degree Programs

Environmental Studies, Health Science, Mathematics, Molecular Biology and Microbiology (Health and Biomedical Sciences), Physics, Psychology, Space Studies, Statistics

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

## LIBERAL STUDIES - WOMEN'S STUDIES TRACK (B.A.)

**Office of Undergraduate Studies**  
**Office of Liberal and Interdisciplinary Studies**  
**CL-I, Room 302; <http://liberalstudies.info>**

**E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)**

Liberal Studies Advising Team, 407-823-0144

### Women's Studies Program

**Colbourn Hall 201**

**<http://www.cas.ucf.edu/womensstudies>**

**E-mail: [womenst@pegasus.cc.ucf.edu](mailto:womenst@pegasus.cc.ucf.edu)**

Lisa Logan, 407-823-6502

Liberal Studies - Women's Studies track is a broadly based interdisciplinary curriculum which leads to the Bachelor of Arts degree in Liberal Studies. The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and the Women's Studies Program in the College of Arts and Humanities.

**Admission Requirements** **none**

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Liberal Studies major - Women's Studies track at least one semester before graduation.
- Internship credit cannot be used in this track without prior permission.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Co op credit cannot be used in this track.
- Students must earn at least a "C" (2.0) in each restricted elective course.
- Students should consult with a Liberal Studies advisor when entering the degree program and regularly thereafter.
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours.
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Mathematics (may substitute a higher level math)	
Select STA 1060C Statistics Using Excel <i>or</i> STA 2014C Principles of Statistics (may substitute a computer science or higher level statistics course)	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

**2. Common Program Prerequisites** **none**

**3. Restricted Electives** **(36 hrs)**

- Students must complete either the Womanist/Women of Color subject area or the Women's Studies Cognate subject area

- Students must complete one subject area from those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses)
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined

### First Study Area (or select Women's Studies Cognate Area)

**Womanist/Women of Color Area:** (18 hrs)  
WST 3460 Womanist Studies 3 hrs  
Select 15 hours from the following courses (15 hrs)

AML 3614	Topics in African-American Literature
ANT 4308	Gender Issues in Latin America
ASH 4304	Women in China
AML 3682	Ethnic Literature in America
SYD 3751	North American Indian Women Today

Other courses approved by the Liberal Studies Advising Team

### Second Study Area (or select Womanist/Women of Color Area) Women's Studies Cognate Area:

Select 18 hours from the following courses:

AML 3614	Topics in African-American Literature
AML 3682	Ethnic Literature in America
AML 4261	Literature of the South
ANT 3212	Peoples of the World
CCJ 4463	Cultural Diversity in Criminal Justice
CCJ 4681	Domestic Violence and the Justice System
EUH 3242	Modern Europe and the First World War
EUH 5937*	Social Theory/History*
HSC 3593	CHIV Disease: A Human Concern
LIT 5556	Feminist Theory*
LIN 4643	Cross Cultural Communication
PEM 2405	Self-Defense for Women and Men
PHI 3640	Environmental Ethics
PHI 3670	Ethical Theory
PHI 4300	Theories of Knowledge
PUP 3314	Minorities in Politics
SOP 2772	Sexual Behavior
SOP 3784	Psychology of Diversity
SYD 3700	Race and Ethnic Minorities in the U.S.
SYO 4100	Family Trends
SYO 4200	Sociology of Religion
SYP 3630	Sociology of Popular Culture
SYP 3650	Sociology and Sport
SYP 4734	Minority Aging
THE 3230	Cultural Diversity Through Theater

Other courses may be utilized for this area with the permission of the director.

\*Undergraduate students will need professor's permission to register for graduate-level courses.

Relevant Special Topics courses are periodically offered through various departments; with prior approval from the Women's Studies Director, some courses may substitute.

### 2nd Study Area (from those below)

See the Liberal Studies Advising Teams for details regarding each area:

Arts  
Behavioral and Social Sciences  
Commerce  
Communication  
Computer Science  
Education  
Engineering  
Health and Biomedical Sciences  
Humanities  
Letters and Modern Languages  
Natural 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 Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**Note:** Students entering without having met the admission requirement must do so in order to graduate

## 7. Electives (variable)

Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of Women's Studies.

## 8. University Minimum Exit Requirements

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

**Total Semester Hours Required 120 hours**

**Related Programs:** Liberal Studies - Liberal Studies track; Liberal Studies - Liberal Arts track

**Related Minors:** Anthropology in Multicultural Studies

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

## LIBERAL STUDIES ACCELERATED PROGRAM (B.A./B.S. and M.A./M.S.)

### Accelerated Undergraduate/Graduate Program

**Note:** For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Programs" section of this *Undergraduate Catalog*.

## MANAGEMENT (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

### 1. Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

### Degree Requirements

- UCF General Education Program (36 hrs)
  - Communication Foundations 9 hrs  
Required: SPC 1600
  - Cultural and Historical Foundations 9 hrs
  - Mathematical Foundations
    - Select MAC 1105 College Algebra 3 hrs
    - Select CGS 2100CC Computer Fundamentals for Bus 3 hrs
  - Social Foundations
    - Select ECO 2013 Macroeconomics *or* ECO 2023 Microeconomics 3 hrs
    - Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
  - Science Foundation 6 hrs

### 2. Common Program Prerequisites

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

- |          |                                     |
|----------|-------------------------------------|
| ACG 2021 | Principles of Financial Accounting  |
| ACG 2071 | Principles of Managerial Accounting |

- |            |                                    |
|------------|------------------------------------|
| ECO 2013   | Macroeconomics                     |
| ECO 2023   | Microeconomics                     |
| *ECO 3401  | Quantitative Business Tools I      |
| CGS 2100CC | Computer Fundamentals for Business |

\* At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

## 3. Required for All Business Majors (30 hrs)

### Common Body of Knowledge

- |   |   |       |
|---|---|-------|
| First or subsequent semester in the College of Business Administration: |   |       |
| GEB 3031  | Cornerstone (Required in 1st or 2nd semester) | 6 hrs |
| GEB 3356  | Introduction to International Business        | 3 hrs |
| BUL 3130  | Legal & Ethical Environments of Business      | 3 hrs |
| ECO 3411  | Quantitative Business Tools II                | 3 hrs |
| FIN 3403  | Business Finance                              | 3 hrs |
| MAN 3025  | Management of Organizations                   | 3 hrs |
| ISM 3011  | Essentials of Management Information Systems  | 3 hrs |
| MAR 3023  | Marketing                                     | 3 hrs |
| Last Semester:  |   |       |
| MAN 4720  | Strategic Management                          | 3 hrs |

## 4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
- Students wanting to major in Management must apply for admission to the major
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must earn at least a 2.0 GPA in the major and COB.
- Students majoring in Management must earn a grade of "C" (2.0) or better in MAN 3025, MAN 4720, and each course applied toward the major.

## 5. Tracks

Within the Management major, students can concentrate in 3 areas of study. Courses for each are outlined below:

### ■ Human Resource Management Track (24 hrs)

- |  |  |
|--|--|
| Required Courses (15 hrs)  |  |
| MAN 3301   | Human Resource Management 3 hrs          |
| MAN 4240   | Organizational Theory and Behavior 3 hrs |
| MAN 4320   | Recruitment and Selection 3 hrs          |
| MAN 4330   | Compensation Administration 3 hrs        |
| MAN 4350   | Training and Development 3 hrs           |
| Elective Courses (choose among MAN courses and BUL 4540) (9 hrs) |  |
| MAN Elective   | 3 hrs                                    |
| MAN Elective   | 3 hrs                                    |
| MAN Elective/ BUL 4540   | Employment Law 3 hrs                     |

### ■ General Management Track (24 hrs)

- |  |   |
|--|---|
| Required Courses (15 hrs)  |   |
| ISM 3530   | Quality & Productivity Management 3 hrs |
| MAN 4101   | Human Relations in Management 3 hrs     |
| MAN 4240   | Organizational Theory & Behavior 3 hrs  |
| MAN 4600   | International Management 3 hrs          |
| MAN 4701   | Business Ethics and Society 3 hrs       |
| Elective Courses (choose among MAN courses and BUL 4540) (9 hrs) |   |
| MAN Elective   | 3 hrs                                   |
| MAN Elective   | 3 hrs                                   |
| MAN Elective/ BUL 4540   | Employment Law 3 hrs                    |

### ■ Management Track: Entrepreneurship (24 hrs)

- |                           |                                     |
|---------------------------|-------------------------------------|
| Required Courses (15 hrs) |                                     |
| MAN 3301                  | Human Resources Management 3 hrs    |
| MAN 4802                  | Entrepreneurship 3 hrs              |
| GEB 4117                  | Business Plan Preparation 3 hrs     |
| GEB 4111                  | New Venture Finance <i>or</i> 3 hrs |
| FIN 3470                  | Small Business Finance 3 hrs        |
| MAR 3641                  | Market Intelligence <i>or</i> 3 hrs |
| MAR 3880                  | E-Marketing 3 hrs                   |

Elective Courses (choose among MAN courses and BUL 4540) 9 hrs

- |              |       |
|--------------|-------|
| MAN Elective | 3 hrs |
| MAN Elective | 3 hrs |

# UCF Degree Programs

MAN Elective/ BUL 4540 Employment Law

3 hrs

areas of study below

## 6. Foreign Language Requirements (0-8 hrs)

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

**Graduation:**  
none

## 7. University Minimum Exit Requirements

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

**8. Electives\*\*\* (variable)**  
**Total Semester Hours Required 120 hrs**

## Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C"(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

## FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS

Freshman		15 hrs		2nd Term		15 hrs	
ENC 1101*	3	ENC 1102*	3				
Cult-Hist I*	3	Cult-Hist II*	3				
SPC 1600	3	Art/Music/Lit	3				
***Elective	3	MAC 1105*	3				
***Elective	3	CGS 2100CC*	3				

Must complete nine hours in a summer semester

Sophomore		15 hrs		2nd Term		15 hrs	
ECO 2023*	3	ECO 2013*	3				
ACG 2021*	3	ACG 2071*	3				
Science	3	Science	3				
Psy/Soc/Int	3	***Elective	3				
***Elective	3	ECO 3401*	3				

\* "C" (2.0) or better grade required in each class  
Student should choose to major in one of the two

## GENERAL MANAGEMENT TRACK

Junior		15 hrs		2nd Term		15 hrs	
GEB 3031	6	ISM 3011	3				
BUL 3130	3	MAR 3023	3				
ISM 3530	3	ECO 3411	3				
MAN 3025	3	FIN 3403	3				
		**MAN Elective	3				

Senior		15 hrs		2nd Term		15 hrs	
GEB 3356	3	MAN 4720	3				
MAN 4240	3	MAN 4600	3				
MAN 4701	3	MAN 4101	3				
**MAN Elective	3	**MAN Elective	3				
***Elective	3	***Elective	3				

\*\*Students select three electives from among MAN courses and BUL 4540.  
\*\*\*General electives as required to reach 120 semester hours.

## HUMAN RESOURCE MANAGEMENT TRACK

Junior		15 hrs		2nd Term		15 hrs	
GEB 3031	6	BUL 3130	3				
GEB 3356	3	MAN 3301	3				
MAR 3023	3	ECO 3411	3				
MAN 3025	3	FIN 3403	3				
		ISM 3011	3				

Senior		15 hrs		2nd Term		15 hrs	
MAN 4350	3	MAN 4720	3				
MAN 4240	3	MAN 4330	3				
MAN 4320	3	**MAN Elective	3				
**MAN Elective	3	**MAN Elective3	3				
***Elective	3	***Elective	3				

\*\*Students select three electives from among MAN courses and BUL 4540.  
\*\*\*General electives as required to reach 120 semester hours.

## ENTREPRENEURSHIP TRACK

Junior		15 hrs		2nd Term		15 hrs	
GEB 3031	6	MAN 4802	3				
GEB 3356	3	ECO 3411	3				
MAR 3023	3	BUL 3130	3				
MAN 3025	3	FIN 3403	3				
		ISM 3011	3				

Senior		15 hrs		2nd Term		15 hrs	
GEB 4111/FIN 3470	3	MAN 4720	3				
MAR 3641/3880	3	GEB 4117	3				
MAN 3301	3	**MAN Elective	3				
**MAN Elective	3	**MAN Elective	3				
***Elective	3	***Elective	3				

\*\*Student select three electives from among MAN courses and BUL 4540.  
\*\*\*General electives as required to reach 120 semester hours.

## MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)

### College of Business Administration

**BA2 101, 407-823-2184**

<http://www.bus.ucf.edu>

### Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

### Degree Requirements

1. UCF General Education Program (36 hrs)
  - A. Communication Foundations 9 hrs
    - Prefer SPC 1600
  - B. Cultural and Historical Foundations 9 hrs
  - C. Mathematical Foundations
    - Select MAC 1105 College Algebra 3 hrs
    - Select CGS 2100CC Computer Fundamentals for Bus 3 hrs
  - D. Social Foundations 3 hrs
    - Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
    - Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
  - E. Science Foundation 6 hrs

### 2. Common Program Prerequisites

Must be completed with a 2.5 or better.

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Macroeconomics
ECO 2023	Microeconomics
CGS 2100CC	Computer Fundamentals for Business
*ECO 3401	Quantitative Business Tools I

\* At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

### 3. Required for All Business Majors (30 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	6 hrs
GEB 3356	Introduction to International Business	3 hrs
BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
MAR 3023	Marketing	3 hrs
ISM 3011	Essentials of Management Info Systems	3 hrs

Last Semester:

MAN 4720	Strategic Management	3 hrs
----------	----------------------	-------

### 4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.5 GPA in Common Program Prerequisites..
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- All courses required for the major (including electives) must be completed with a grade of "C" (2.0) or better in order to graduate.
- All College of Business Administration students are expected to have access to late model computers and the software needed to complete class assignments. This requirement is especially important for MIS majors. Contact a department advisor for the current expectations.
- Students are cautioned to study the course prerequisite structure and the Four Year Plan of Study later in this section when planning their schedules. MIS course prerequisites cannot be waived.
- Lower division courses may not be taken for upper division credit in the major.
- Students must earn at least a 2.0 GPA in the major and COB.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.

### 5. Required Courses (22 hrs)

ISM 3253	MIS Techniques	4 hrs
ISM 4113	Information Systems Analysis & Design	3 hrs
ISM 4130	Information Systems Implementation	3 hrs
ISM 4212C	Database Management Systems	3 hrs
ISM 4220	Distributed Information Systems	3 hrs
ISM 4300	Information Technology Management	3 hrs
ISM 4400	Decision Support Systems	3 hrs

Plus two of the following:

Any 3000 or 4000 level ISM prefix course. (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 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 X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college. This includes the areas of MIS, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

### FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

Freshman		15 hrs		2nd Term		15 hrs	
1st Term							
ENC 1101*	3	ENC 1102*	3				
Cult-Hist I*	3	Cult-Hist II*	3				
SPC 1600	3	Art/Music/Lit	3				
***Elective	3	MAC 1105*	3				
***Elective	3	CGS 2100CC*	3				

*Must complete nine hours in a summer semester*

Sophomore		15 hrs		2nd Term		15 hrs	
1st Term							
ECO 2023*	3	ECO 2013*	3				
ACG 2021*	3	ACG 2071*	3				
Science	3	Science	3				
Psy/Soc/Ant	3	***Elective	3				
***Elective	3	ECO 3401*	3				

*\*"C" (2.0) or better grade required in each class*

Junior		15 hrs		2nd Term		16 hrs	
1st Term							
GEB 3031	6	MAR 3023	3				
ISM 3011	3	ISM 4400	3				
ISM 3253	4	ISM 4212C	3				
GEB 3356	3	ISM 4220	3				
		ECO 3411	3				

Senior		15 hrs		2nd Term		15 hrs	
1st Term							
ISM Elective	3	MAN 4720	3				
FIN 3403	3	ISM 4300	3				
*** Elective	3	ISM 4130	3				
MAN 3025	3	ISM Elective	3				
ISM 4113	3	BUL 3130	3				

*\*\*\*General electives as required to reach 120 semester hours.*

# UCF Degree Programs

## MARKETING (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

### Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

### Degree Requirements

1. UCF General Education Program	(36 hrs)
A. Communication Foundations Required: SPC 1600	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations Select MAC 1105 College Algebra	3 hrs
Select CGS 2100CC Computer Fundamentals for Bus	3 hrs
D. Social Foundations Select ECO 2013 Macroeconomics <i>or</i> 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	Macroeconomics
ECO 2023	Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100CC	Computer Fundamentals for Business

\* At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

### 3. Required for All Business Majors

First or subsequent semester in the College of Business Administration:	(30 hrs)	
GEB 3031	Cornerstone (Required in 1st or 2nd semester)	6 hrs
GEB 3356	Introduction to International Business	3 hrs
BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs

### 4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in Marketing must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students majoring in Marketing must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

### 5. Required Courses

MAR 3391	Professional Selling	3 hrs
MAR 3503	Customer Behavior	3 hrs
MAR 3613	Marketing Analysis and Research	3 hrs
MAR 3641	Marketing Intelligence	3 hrs
MAR 4803	Marketing Management	3 hrs
MAR 4804	Marketing Strategy	3 hrs

### 6. Restricted Electives – General Marketing

Minimum of 3 courses required	(9 hrs)	
MAR 3323	Integrated Marketing Communication	3 hrs

MAR 3403	Sales Force Management	3 hrs
MAR 3880	E-Marketing	3 hrs
*MAR 4156	International Marketing	3 hrs
MAR 4231	Retailing Management	3 hrs
MAR 4711	Sport Marketing	3 hrs
MAR 4712	Healthcare Marketing	3 hrs
MAR 4715	Entertainment Marketing	3 hrs
*MAR 4724	Strategic Foundations in Global e-Business	3 hrs
MAR 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. Required Electives - Sales Track\*

MAR 3403	Sales Force Management	3 hrs
MAR 4392	Advanced Professional Selling	3 hrs
MAR 4413	Strategic Issues in Sales	3 hrs

\* Admission by department approval: Restricted to declared marketing majors. Requires submission of application by May 1. Must have earned a grade of B (3.0) or higher in MAR 3391 to apply. Department faculty committee will select a maximum of 30 sales track participants based on academic achievement, work experience, outside activities and leadership positions, and responses to questions on the application form. MAR4392 is offered in the Fall semester; MAR4413 in the Spring semester.

### 8. Foreign Language Requirements (0-8 hrs)

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

**Graduation:** none

### 9. University Minimum Exit Requirements

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

### 10. Electives\*\*\* (variable)

### Total Semester Hours Required 120 hrs

Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or take the small business consulting class (MAR 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 – GENERAL MARKETING**

<b>Freshman</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100CC	3
<i>Must complete nine hours in a summer semester</i>			

<b>Sophomore</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3
<i>* "C" (2.0) or better grade required in each class</i>			

<b>Junior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ECO 3411	3	MAR 3391	3
GEB 3031	6	BUL 3130	3
GEB 3356	3	FIN 3403	3
MAR 3023	3	MAR 3503	3
		MAR 3613	3

<b>Senior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
MAR 4803	3	MAN 4720	3
MAR Elective	3	MAR 4804	3
MAN 3025	3	MAR Elective	3
ISM 3011	3	MAR Elective	3
MAR 3641	3	GE Non-Business Elec	3

General electives as required to reach 120 semester hours.

**FOUR YEAR PLAN OF STUDY – MARKETING: SALES TRACK**

<b>Freshman</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100CC	3
<i>Must complete nine hours in a summer semester</i>			

<b>Sophomore</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3
<i>* "C" (2.0) or better grade required in each class</i>			

<b>Junior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ECO 3411	3	MAR 3391	3
GEB 3031	6	MAR 3403	3
GEB 3356	3	FIN 3403	3
MAR 3023	3	MAR 3503	3
		MAR 3613	3

<b>Senior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
MAR 4803	3	MAN 4720	3
MAR 4392	3	MAR 4804	3
MAN 3025	3	MAR 4413	3
BUL 3130	3	ISM 3011	3
MAR 3641	3	GE Non-Business Elec	3

General electives as required to reach 120 semester hours.

**MATHEMATICS-APPLIED TRACK (B.S.)**

**College of Sciences, Department of Mathematics, MAP 207, 407-823-6284**

<http://math.ucf.edu>

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

Contact: H. Martin, MAP 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** **none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF 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+3 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
  - 1. Select MAC 2311 4 hrs
  - 2. Select COP 3502C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
  - 1. Select BSC 2010C 4 hrs
  - 2. Select PHY 2048 & L 4 hrs

**2. Common Program Prerequisites (11 hrs)**

- COP 3223\* 3 hrs Intro to Programming with C
  - MAC 2311 GEP Calculus with Analytic Geo I
  - MAC 2312 4 hrs Calculus with Analytic Geo II
  - MAC 2313 4 hrs Calculus with Analytic Geo III
  - BSC 2010C\* GEP Biology I
  - PHY 2048\* & L GEP Physics for Sci & Eng I & Lab
- \*See Transfer Notes for possible substitutes

**3. Core requirements (52 hrs)**

- PHY 2049 & L 4 hrs Physics for Sci & Eng II & Lab
- One course selected from 3 hrs
  - ENC 3241 3 hrs Writing for Tech Professional Magazine Writing I
  - ENC 3310 3 hrs Advanced Expository Writing
  - ENC 3311 3 hrs Statistical Methods I
  - STA 2023 3 hrs Logic and Proof in Mathematics
  - MHF 3302 3 hrs Differential Equations
  - MAP 2302 4 hrs Matrix & Linear Algebra
  - MAS 3105 4 hrs Linear Algebra
  - MAS 3106 3 hrs
- Select one course
  - MAD 4203 3 hrs Combinatorics & Graph Theory
  - MAP 4153 3 hrs Vector and Tensor Analysis
  - MAP 4307 3 hrs Appl of Complex Variables
  - MAP 4363 3 hrs Appl Boundary Value Prob I
  - STA 4321 3 hrs Statistical Theory I
  - MAP 4364 3 hrs Appl Boundary Value Prob II
  - COP 3502C GEP Computer Science I
  - STA 4322 3 hrs Statistical Theory II
  - MAA 4226 4 hrs Advanced Calculus I
  - COT 4500 3 hrs Numerical Calculus
  - MAP 4103 3 hrs Mathematical Modeling

**4. Restricted Electives (6 hrs)**

- a. Applied Elective 3 hrs
  - Select from COT 4210, COT 4110, COT 5507, COT 5510, EGN 3310,

## UCF Degree Programs

EGN 3321, EGN 3343, EGN 3373,  
STA 4102, STA 5103, STA 4641  
b. Biological or physical sciences restricted 3 hrs  
Select from PCB 3044, PCB 3063,  
PCB 4302C, PCB 4303C, CHM 3410,  
CHM 2210, PHY 3101, PHY 3323,  
PHY 4324, 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 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 hrs

**Related Programs:** Applied Math, Computer Science, Engineering, Math Education, Statistics

**Related Minors:** Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

#### Transfer Notes:

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

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

- COP 3223\* may use any programming language course with a COP prefix
- BSC 2010C\*; may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048\*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

#### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer  
Math placement See catalog 0

#### Freshman Year

<b>Fall</b>		<b>Spring</b>	
ANT 2000* req# 1D2-GEP	3	BSC 2010C Biology I	4
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 2311 Calc Anal Geo I	4	MAC 2312 Calc Anal Geo II	4
STA 2023 Stat Methods I	3	MHF 3302 Logic and in Math	3

#### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
COM 1000* req# 1A3-GEP	3	POS 2041* req# 1D1-GEP	3
PHY 2048 Phy for Eng Sci I	3	MAP 2302 Dif Equations	3

PHY 2048L Phy L Eng Sci I	1	MAS 3106 Linear Algebra	4
MAC 2313 Calc Anal Geo III	4	PHY 2049 Phy for Eng Sci II	3
MAS 3105 Matrix and Lin Alg	4	PHY 2049L Phy L Eng Sci II	1

#### Junior Year

<b>Fall</b>		<b>Spring</b>	
AMH 2010* req# 1B1-GEP	3	COP 3502C Computer Science I	3
COP 3223 Intro to Prog C	3	MUL 2010* req# 1B2-GEP	3
MAD 4203* req# 3-Core	4	MAP 4307 App complex var	3
MAP 4363 Ap Bound Prob I	3	MAP 4364 Ap Bound Prob II	3
Elective* Check restrictions	4	Elective* Check restrictions	3

#### Senior Year

<b>Fall</b>		<b>Spring</b>	
ARH 2050* req# 1B3-GEP	3	ENC 3241* req# 3-Core	3
COT 4500 Numerical Calculus	3	MAP 4103 Math Modeling I	3
MAA 4226 Adv Calculus I	4	STA 4322 Stat Theory II	3
STA 4321 Stat Theory I	3	PCB 3063* req# 4b-ResElec	3
COT 4210* req# 4a-ResElec	3	Elective* Check restrictions	4

## MATHEMATICS - COMPUTATIONAL TRACK (B.S.)

College of Sciences, Department of Mathematics

MAP 207, 407-823-6284

<http://math.ucf.edu>

E-mail: [math@mail.ucf.edu](mailto:math@mail.ucf.edu)

Contact: H. Martin, MAP 231F, 407-823-5700,

E-mail: [martin@math.ucf.edu](mailto: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, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### 1. UCF General Education Program (36 + 3 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	
1. Select MAC 2311	4 hrs
2. Select COP 3502C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select BSC 2010C	4 hrs
2. Select PHY 2048 & L	4 hrs

#### 2. Common Program Prerequisites (11 hrs)

COP 3223* Intro to Programming with C	3 hrs
MAC 2311 Calculus with Analytic Geo I	GEP
MAC 2312 Calculus with Analytic Geo II	4 hrs
MAC 2313 Calculus with Analytic Geo III	4 hrs
BSC 2010C* Biology I	GEP
PHY 2048* & L Physics for Sci & Eng I w/lab	GEP

\*See Transfer Notes for possible substitutes

#### 3. Basic Core Requirements (10 hrs)

COP 3502C Computer Science I	GEP
PHY 2049 & L Physics for Sci & Eng II w/lab	4 hrs
STA 2023 Statistical Methods I	3 hrs
MAP 2302 Differential Equations	3 hrs

#### 4. Advanced Core Requirements (42 hrs)

Select one course	3 hrs
MHF 3302 Logic and Proof in Mathematics	



COT 3100C	Intro to Discrete Structures	3 hrs
ENC 3241	Writing for the Tech Professional	4 hrs
MAS 3106	Linear Algebra	4 hrs
MAD 4203	Combinatorics & Graph Theory	4 hrs
MAP 4307	Appl of Complex Variables	3 hrs
MAP 4363	Appl Boundary Value Prob I	3 hrs
STA 4321	Statistical Theory I	3 hrs
MAP 4364	Appl Boundary Value Prob II	3 hrs
COP 3503C	Computer Science II	3 hrs
STA 4322	Statistical Theory II	3 hrs
MAA 4226	Advanced Calculus I	4 hrs
COT 4500	Numerical Calculus	3 hrs
Select one course		3 hrs
MAP 4103	Mathematical Modeling	
MAP 4153	Vector and Tensor Analysis	

**5. Restricted Electives (18 hrs)**

Select six upper division courses

COP 3402C	Systems Software	3 hrs
COP 3530C	Computer Science III	3 hrs
CDA 4150	Computer Architecture	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs
COT 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\*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048\*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

**MATHEMATICS - ENGINEERING/ PHYSICS TRACK (B.S.)**  
**College of 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, MAC 2312, MAC 2313 and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

**1. UCF General Education Program (36 + 3 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	
1. Select MAC 2311	4 hrs
2. Select COP 3502C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select BSC 2010C	4 hrs
2. Select PHY 2048 & L	4 hrs

**2. Common Program Prerequisites (11 hrs)**

COP 3223*	Intro to Programming with C	3 hrs
MAC 2311	Calculus with Analytic Geo I	GEP
MAC 2312	Calculus with Analytic Geo II	4 hrs
MAC 2313	Calculus with Analytic Geo III	4 hrs
BSC 2010C*	Biology I	GEP
PHY 2048*&L	Physics for Sci & Eng I w/lab	GEP

\*See Transfer Notes for possible substitutes

**3. Basic Core Requirements (10 hrs)**

COP 3502C	Computer Science I	GEP
PHY 2049&L	Physics for Sci & Eng II w/lab	4 hrs
MAP 2302	Differential Equations	3 hrs
Select one course		3 hrs
STA 3032	Prob. & Stats for Engineers	
STA 2023	Statistical Methods I	

**4. Advanced Core Requirements (53 hrs)**

Select one course		3 hrs
MHF 3302	Logic and Proof in Mathematics	
COT 3100C	Intro to Discrete Structures	
Select one course		3 hrs
MAP 4103	Mathematical Modeling	
EML 3034C	Modeling Meth in Mech. & Aero Eng	
PHZ 3151	Computer Methods in Physics	
MAP 4153	Vector and Tensor Analysis	3 hrs
MAP 4307	Appl of Complex Variables	3 hrs
MAP 4363	Appl Boundary Value Prob I	3 hrs
MAP 4364	Appl Boundary Value Prob II	3 hrs
MAA 4226	Advanced Calculus I	4 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
Select one course		3 hrs
EGN 3420	Engineering Analysis	
COT 4500	Numerical Calculus	
Select one course		4 hrs
MAS 3106	Linear Algebra	
MAD 4203	Combinatorics & Graph Theory	

## UCF Degree Programs

Select one course		3 hrs
EGN 3310	Engineering Analysis - Statics	
PHY 3220	Mechanics I	
Select one course		3 hrs
EGN 3373	Principles of Electrical Engineering	
PHY 3101	Physics for Eng & Sci III	
Select one course		3 hrs
CHM 2046	Chemistry Fundamentals II	
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above		
Select one course		3 hrs
EGN 3358	Thermo-Fluids-Heat Transfer	
PHY 3513	Thermal & Statistical Physics	
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above		
Select one course		3 hrs
EML 3701	Fluid Mechanics	
CWR 3201	Engineering Fluid Mechanics	
PHY 3101	Physics for Eng & Sci III	
(PHY 3101 may be selected only if EGN3373 is also taken)		
EIN 4628C	Industrial Applications of Computers	
PHZ 3113	Intro. to Theoretical Methods of Physics	
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above		
Select one course		3 hrs
EGN 3331	Mechanics of Materials	
CHM 2046	Chemistry Fundamentals II	
ESI 4312	Operations Research	
EGM 3601	Solid Mechanics	
EML 4220	Vibration Analysis	
EEL 3004	Electrical Networks	
PHY 4604	Wave Mechanics I	
or any MAA, MAD, MAP, or MAS course at 3000 level or above		
Select one course		3 hrs
CES 4100C	Structural Analysis I	
EGN 3331	Mechanics of Materials	
EIN 3000	Intro. to Indust. Eng. & Mngmnt Sys	
EAS 3101	Aerodynamics I	
EGM 3601	Solid Mechanics	
EEL 3004	Electrical Networks	
or any PHY, PHZ, AST, MAA, MAD, MAP, or MAS course at 3000 level or above		

### 5. Restricted Electives

(6 hrs)

Select two courses	
STA 4321	Statistical Theory I
STA 4322	Statistical Theory II
PHY 3323	Electricity & Magnetism I
PHY 4324	Electricity & Magnetism II
EGN 3365	Structure & Property of Materials
EGN 3613	Engineering Economic Analysis
EGN 3704	Engineering & the Environmental
EEL 3342C	Intro. to Digital Circuits and Systems
EEL 3801C	Intro. to Computer Engineering
EEL 3657	Linear Control Systems
EML 4142	Heat Transfer
EML 4312C	Feedback Control
EML 3262	Kinematics and Mechanisms
EAS 4200	Flight Structures
EAS 4400	Spacecraft Attitude Dynamics
EAS 4505	Orbital Mechanics
EAS 4105	Flight Mechanics
EML 4703	Fluid Mechanics II
EMA 4223	Deformation and Fracture of Materials
CWR 4203C	Hydraulics
CWR 4101C	Hydrology
ENV 4561	Environmental Eng Processes & Design
ESI 4234	Quality Engineering
ESI 4523C	Systems Simulation
EIN 4333C	Industrial Control Systems
EEL 3470	Electromagnetic Fields
EEL 3552C	Analog & Digital Communication Fund
EEL 4750	Digital Signal Processing Fund.
EEL 4767C	Computer System Design I
EEL 4832	Eng. Applications of Computer Models
EEL 4851C	Engineering Data Structures
or any MAA, MAD, MAP, or MAS course at 3000 level or above	

### 6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by EGN 3420 or COP 3502C.

### 7. Foreign Language Requirements

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

Graduation: None

### 8. Electives

(variable)

Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

### 9. University Minimum Exit Requirements

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

### Total Semester Hours Required

120 hours

**Related Programs:** Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

**Related Minors:** Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
  - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:
- COP 3223\*: may use any programming language course with a COP prefix.
  - BSC 2010C\*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
  - PHY 2048\*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

## MATHEMATICS - PURE TRACK (B.S.)

College of Sciences, Department of Mathematics  
**MAP 207 407-823-6284**

<http://math.ucf.edu>

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

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, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program

(36 + 3 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	
1. Select MAC 2311	4 hrs

- 2. Select COP 3502C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
  - 1. Select BSC 2010C 4 hrs
  - 2. Select PHY 2048 & L 4 hrs

- 2. Common Program Prerequisites (11 hrs)**
- COP 3223\* Intro to Programming with C 3 hrs
  - MAC 2311 Calculus with Analytic Geo I GEP
  - MAC 2312 Calculus with Analytic Geo II 4 hrs
  - MAC 2313 Calculus with Analytic Geo III 4 hrs
  - BSC 2010C\* Biology I GEP
  - PHY 2048\* & L Physics for Sci & Eng I & Lab GEP
- \*See Transfer Notes for possible substitutes

- 3. Core requirements (53 hrs)**
- PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
  - One course selected from 3 hrs
    - ENC 3241 Writing for the Tech Professional
    - ENC 3310 Magazine Writing
    - ENC 3311 Advanced Expository Writing
    - STA 2023 Statistical Methods 3 hrs
    - MHF 3302 Logic and Proof in Mathematics 3 hrs
    - MAP 2302 Differential Equations 3 hrs
    - MAS 3105 Matrix & Linear Algebra 4 hrs
    - MAS 3106 Linear Algebra 4 hrs
    - MAP 4363 Applied Boundary Value Prob I 3 hrs
    - STA 4321 Statistical Theory I 3 hrs
    - MAS 4301 Algebraic Structures 3 hrs
    - STA 4322 Statistical Theory II 3 hrs
    - COP 3502C Computer Science I GEP
    - MAA 4226 Advanced Calculus I 4 hrs
    - MAA 4227 Advanced Calculus II 3 hrs
    - MAD 4203 Combinatorics & Graph Theory 4 hrs
    - MTG 4302 Introduction to Topology 3 hrs
    - MAP 4307 Appl to Complex Variables 3 hrs

- 4. Restricted Electives (3 hrs)**
- Biological or physical sciences restricted 3 hrs
- Select from PCB 3044, 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\*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048\*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<b>Summer</b>			
Math placement	See catalog	0	
<b>Freshman Year</b>			
<b>Fall</b>		<b>Spring</b>	
ANT 2000* req# 1D2-GEP	3	BSC 2010C Biology I	4
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 2311 Calc Anal Geo I	4	MAC 2312 Calc Anal Geo II	4
STA 2023 Stat Methods I	3	MHF 3302 Logic and in Math	3
<b>Sophomore Year</b>			
<b>Fall</b>		<b>Spring</b>	
COM 1000* req# 1A3-GEP	3	POS 2041* req# 1D1-GEP	3
PHY 2048 Phy for Eng Sci I	3	MAP 2302 Dif Equations	3
PHY 2048L Phy L Eng Sci I	1	MAS 3106 Linear Algebra	4
MAC 2313 Calc Anal Geo III	4	PHY 2049 Phy for Eng Sci II	3
MAS 3105 Matrix and Lin Alg	4	PHY 2049L Phy L Eng Sci II	1
<b>Junior Year</b>			
<b>Fall</b>		<b>Spring</b>	
COP 3223 Intro to Prog C	3	COP 3502C Computer Science I	3
MAP 4363 Ap Bound Prob I	3	MUL 2010* req# 1B2-GEP	3
MAS 4301 Algebraic Struct	3	MAP 4307 App complex var	3
Elective* Check restrictions	4	PCB 3063* req# 4-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	3
<b>Senior Year</b>			
<b>Fall</b>		<b>Spring</b>	
AMH 2010* req# 1B1-GEP	3	ARH 2050* req# 1B3-GEP	3
ENC 3241* req# 3-Core	3	MAA 4227 Adv Calculus II	3
MAA 4226 Adv Calculus I	4	MTG 4302 Intro to Topology	3
MAD 4203 Comb Thry	4	STA 4322 Stat Theory II	3
STA 4321 Stat Theory I	3	Elective* Check restrictions	4

## 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 123-K, 407-823-2005

E-mail: [hynes@mail.ucf.edu](mailto:hynes@mail.ucf.edu)

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

**Degree Requirements**

- Students should see an advisor prior to registering for classes
- 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**

A. Communication Foundations

**(37 hrs)**  
(9 hrs)

# UCF Degree Programs

ENC 1101	Composition I	3 hrs
ENC 1102	Composition II	3 hrs
Select SPC 1600	Fundamentals of Oral Communication	3 hrs
<b>B. Cultural-Historical Foundations (9 hrs)</b>		
Select AMH 2010	U.S. History 1492-1877	3 hrs
Select AMH 2020	U.S. History 1877-Present	3 hrs
Select PHI 2010	Introduction to Philosophy	3 hrs
<b>C. Mathematical Foundations (7 hrs)</b>		
Select MAC 2311	Calculus with Analytic Geometry I	4 hrs
Select STA 2023	Statistical Methods I	3 hrs
<b>D. Social Foundations (6 hrs)</b>		
Prefer POS 2041	American National Government	3 hrs
Select PSY 2012	General Psychology	3 hrs
<b>E. Science Foundations (6 hrs)</b>		
Prefer PSC 1121	Physical Science	3 hrs
Select one:		3 hrs
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	

Note: See laboratory component under Section 2.

## 2. Common Program Prerequisites (24 hrs)

<b>A. Communications (9 hrs)</b>		
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
SPC 1600	Fundamentals of Oral Communication	GEP
<b>B. Humanities (6 hrs)</b>		
PHI 2010	Introduction to Philosophy	GEP
Select one:		3 hrs
ARH 2050	History of Western Art I <i>or</i>	
ARH 2051	History of Western Art II <i>or</i>	
MUL 2010	Enjoyment of Music <i>or</i>	
THE 2000	Theatre Survey <i>or</i>	
FIL 2400	History of Motion Pictures	
<b>C. Mathematics (11 hrs)</b>		
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
STA 2023	Statistical Methods I	GEP
<b>D. Social Science/History (12 hrs)</b>		
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
<b>E. Science (10 hrs)</b>		
PSC 1121	Physical Science	GEP
One of the following (per GEP)		
ANT 2511	The Human Species <i>or</i>	
BSC 1005	Biological Principles	
Select one:		3 hrs
AST 2002	Astronomy <i>or</i>	
GEO 1200	Physical Geography <i>or</i>	
GLY 1030	Geology and its Applications	
Select one associated science lab:		
BSC 1005L	Biological Principles Laboratory <i>or</i>	1 hr
PSC 1121L	Physical Science Laboratory	
<b>F. Education Courses (9 hrs)</b>		
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs
<b>G. Diversity Courses (GEP)</b>		
<b>H. Other Program Prerequisites (4 hrs)</b>		
MAC 2313	Calculus with Analytic Geometry III	4 hrs

Note: student should consult advisor regarding course options.

## 3. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL	3 hrs
LAE 4361	Literacy Strategies for Mid/High School	3 hrs

## 4. Internship I (ESE3940) (3 hrs)

- Program Internship I Prerequisites: EDG 4323 and at least 50% of all required mathematics courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses
- See additional requirements listed under College of Education, Office of Clinical Experiences

## 5. Specialization Requirements (37 hrs)

NOTE: Some course waivers/substitutions may be possible. See advisor.		
MAP 2302	Differential Equations	3 hrs
MAP 4103	Mathematical Modeling	3 hrs

MAS 4301	Algebra Structure	3 hrs
MAD 4203	Combinatorics & Graph Theory	4 hrs
MAE 4360	Mathematics Instructional Analysis	4 hrs
MAE 4634	Programs in Teaching Mathematics	3 hrs
MAS 3105	Elementary Linear and Matrix Algebra	4 hrs
MAS 3203	Introduction to Number Theory	3 hrs
MHF 3302	Logic and Proof in Mathematics	3 hrs
MHF 4404	History of Mathematics	3 hrs
MTG 4212	Modern Geometry	4 hrs

## 6. Internship II (ESE4943) (12 hrs)

- At least 80% of all required mathematics courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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

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

## 8. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

## 9. University Minimum Exit Requirements

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

## 10. Total Program Semester Hours Required 128 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

## 11. Recommended Four-Year Sequence of Courses

<b>Freshman Year</b>			
<b>Fall</b>	<b>(17 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
EDG 2701	3 hrs	AMH 2010	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MAC 2311	4 hrs	MAC 2312	4 hrs
PSC 1121	3 hrs	STA 2023	3 hrs
PSC 1121L	1 hr	ANT 2511 <i>or</i>	3 hrs
SPC 1600	3 hrs	BSC 1005	
<b>Summer (10 hrs)</b>			
EDF 2005	3 hrs		
MAC 2313	4 hrs		
PHI 2010	3 hrs		
<b>Sophomore Year</b>			
<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
MAP 2302	3 hrs	MH 2020	3 hrs
MHF 3302	3 hrs	EME 2040	3 hrs
PSY 2012	3 hrs	MAS 3105	4 hrs
AST 2002 <i>or</i>	3 hrs	MAS 3203	3 hrs
GEO 1200 <i>or</i>		POS 2041	3 hrs
GLY 1030	3 hrs		
ARH 2050 <i>or</i>			
MUL 2010 <i>or</i>			
THE 2000 <i>or</i>			
FIL 2400			

<b>Junior Year</b>			
<b>Fall</b>	<b>(16 hrs)</b>	<b>Spring</b>	<b>(13 hrs)</b>
EDF 4603	3 hrs	EDF 4214	3 hrs
EDG 4323	3 hrs	MAE 4634	3 hrs
MAE 4360	4 hrs	MAP 4103	3 hrs
MHF 4404	3 hrs	MTG 4212	4 hrs
TSL 4080	3 hrs		

<b>Senior Year</b>			
<b>Fall</b>	<b>(13 hrs)</b>	<b>Spring</b>	<b>12 hrs)</b>
ESE 3940	3 hrs	ESE 4943	12 hrs
LAE 4361	3 hrs		
MAD 4203	4 hrs		
MAS 4301	3 hrs		

**MECHANICAL ENGINEERING (B.S.M.E.)**

**College of Engineering and Computer Science  
Mechanical, Materials & Aerospace Engineering  
Department,**

**ENGR 307, 407-823-2416,**

**Fax: 407-823-0208**

**<http://www.mmae.ucf.edu>**

*Undergraduate Advisor: Waheeda Illasari*

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

**1. UCF General Education Program for Engineering Students (36+2 hrs)**

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

- A. Communication Foundations 9 hrs
  - 1. ENC 1101 & ENC 1102
  - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
  - 1. Select two courses from Historical Foundations
  - 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120
- C. Mathematical Foundations 7 hrs
  - 1. Select MAC 2311, (PR: MAC 1114)
  - 2. Select STA 3032 (PR: MAC 2312).
- D. Social Foundations 6 hrs
  - 1. Prefer ECO 2013 or ECO 2023.
  - 2. ANT 2000, PSY 2012, or SYG 2000.
- E. Science Foundations 7 hrs
  - 1. Select PHY 2048/48L (PR: MAC 2311)
  - 2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311	Calculus with Analytic Geometry I	GEP
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
Humanities Courses		GEP
Social Science Courses		GEP
Humanities <i>or</i> Social Sciences		GEP

**3. Courses Required for the Major (65 hrs)**

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the senior design courses listed in 4. below.

EGN 1006C	Intro to the Engineering Profession	1 hr
GN 1111C	Engineering Computer Graphics	2 hrs
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engning	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EML 3034C	Modeling Methods in MMAE	3 hrs
EML 3303C	Mechanical Engrng Measurements	3 hrs
EML 4312C	Feedback Control	2 hrs
EML 3500	Machine Design & Analysis	3 hrs
EGM 3601	Solid Mechanics	3 hrs
EML 3701	Fluid Mechanics I	3 hrs
EML 4142	Heat Transfer	3 hrs
EML 4220	Vibration Analysis	3 hrs
EML 4535C	Introduction to CAD/CAM	3 hrs

Select one of the following three options for your senior year to complete your BSME. (20 hrs)

**a. Energy Systems Option**

EML 3101	Thermodynamics of Mechanical Sys	3 hrs
EML 4304C	Thermo-fluids Measurements	2 hrs
EML 4703	Fluid Mechanics II	3 hrs
Restricted Mechanical Systems Elective		3 hrs
Approved Electives		9 hrs

**b. Mechanical Systems Option**

EMA 3012C	Experimental Techniques in Mechanics & Materials	2 hrs
EML 3262	Kinematics of Mechanisms	3 hrs
EML 3804C	Digital Control in Mechatronics	3 hrs
Restricted Energy Systems Elective		3 hrs
Approved Electives		9 hrs

**c. Materials Option**

EMA 3012C	Experimental Techniques in Mechanics & Materials	2 hrs
EMA 4102	Thermodynamics and Kinetics of Materials	3 hrs
EMA 3124	Design and Selection of Materials	3 hrs
Restricted Materials Systems Elective		3 hrs
Approved Electives		9 hrs

**4. Departmental Graduation Requirements (6 hrs)**

EML 4501C	Engineering Design I or EGN 4412C Interdisciplinary Design I	3 hrs
EML 4502C	Engineering Design I or EGN 4413C Interdisciplinary Design II	3 hrs

CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

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

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

**Graduation:** none

**6. Approved Restricted and Technical Electives**

Technical electives are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their Department for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

**7. University Minimum Graduation Requirements**

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

# UCF Degree Programs

**Total Semester Hours Required:** 128 hrs

**Related Programs:** Aerospace Engineering, Industrial Engineering.

**Related Minors:** Space Studies, Intelligent Robotic Systems, Engineering Leadership & Management.

**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 Department to develop and maintain an appropriate plan of study.

Mechanical Engineering - 128 semester hours required

**FIRST YEAR**

<b>Fall</b>	<b>15 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs<sup>1</sup></b>
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 Chm Eng or	4	*MAC 2312 Calc II	4
CHM 2045C w/lab		*SPC 1016 Oral Comm for Eng or	3
*MAC 2311 Calc I	4	*PHY 2048 Phys Eng I w/lab	4
*ECO 2013 or 2023 Macro or Micro	3		
<b>Summer</b>	<b>10 hrs<sup>1, 3, 4</sup></b>		
*MAC 2313 Calc III	4		
*Social Foundations	3		
*Historical Foundations	3		

**SECOND YEAR**

<b>Fall</b>	<b>15 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs</b>
EGN 1111C Engr Comp Graph	2	EGN 3321 Engr Anal-Dynamics	3
*MAP 2302 Diff Equations	3	EGN 3365 Strctr & Prop Mats	3
EGN 3310 Engr Anal-Statics	3	EGN 3343 Thermodynamics	3
*PHY 2049 Phys Eng II w/lab	4	EGM 3601 Solid Mechanics	3
STA 3032 Prob & Stats/Engrs	3	EGN 3373 Prin of Elec Engr	3

**THIRD YEAR**

<b>Fall</b>	<b>14 hrs<sup>1</sup></b>	<b>Spring</b>	<b>15 hrs</b>
EML 3500 Machine Design	3	EML 4220 Vibration Analysis	3
EML 3701 Fluid Mechanics I	3	Approved Technical Elective	3
EML 3034C Modeling Methods	3	EML 4142 Heat Transfer	3
EML 3303C Mech Engr Meas	2	EML 4535C CAD/CAM	3
*Science Foundations <sup>2</sup>	3	*Historical Foundations	3

**FOURTH YEAR**

<b>I. ENERGY SYSTEMS OPTION</b>			
<b>Fall</b>	<b>15 hrs<sup>1, 2</sup></b>	<b>Spring</b>	<b>14 hrs<sup>1, 2</sup></b>
EML 3101 Thermo Mech Sys	3	EML 4502C Eng Design II or	3
EML 4703 Fluid Mechanics II	3	EGN 4413C Inter Design II	
EML 4501C Eng Design I or	3	EML 4304C Meas Therm Sys	2
EGN 4412C Inter Design I	3	Approved Elective	3
EML 4312C Feedback Control	3	Approved Elective	3
Restricted Mechanical Systems Elect	3	*Cultural Foundations <sup>2</sup>	3
<b>II. MECHANICAL SYSTEMS OPTION</b>			
<b>Fall</b>	<b>15 hrs<sup>1, 2</sup></b>	<b>Spring</b>	<b>14 hrs<sup>1, 2</sup></b>
EML 3262 Kinem Mechnsms	3	EML 4502C Eng Design II or	3
EML 4501C Eng Design I or	3	EGN 4413C Inter Deisgn II	
EGN 4412c Inter Design I	3	EML 3804C Mechatronics	3
EML 4312C Feedback Control	3	EMA 3012C Exp Tech Mech/Mtl	2
Approved Elective	3	Approved Elective	3
Restricted Energy Systems Elect	3	*Cultural Foundations	3
<b>III. MATERIALS OPTION</b>			
<b>Fall</b>	<b>15 hrs<sup>1, 2</sup></b>	<b>Spring</b>	<b>14 hrs<sup>1, 2</sup></b>
EMA 4102 Thermo & Kinetics of Mtrls	3	EML 4502C Eng Design II or	3
EML 4501C Eng Design I or	3	EGN 4413C Inter Design II	
EGN 4412c Inter Design I	3	EMA 3012 C Exp Tech Mech/Mtrl	2
EMA 3124 Design & Select of Mtrls	3	Approved Elective	3
EML 4312C Feedback Control	3	Approved Elective	3
Restricted Materials Systems Elect	3	*Cultural Foundations	3

**Notes:**

1. Courses marked with an asterisk (\*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult the MMAE website ([www.mmae.ucf.edu](http://www.mmae.ucf.edu)) or with the MMAE Associate Chairman in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with the MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
3. The State University System requires students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.

**Important Notice**

- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take the courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034C ("C" or FORTRAN recommended).
- If you are not ready to begin the Calculus sequence upon entry to the Mechanical Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

**Accelerated BS/MS Degree Program**

The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve graduate hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

**MEDICAL LABORATORY SCIENCES (B.S)**

**Burnett College of Biomedical Sciences**

**HPA2 335, 407-823-5932**

<http://www.biomed.ucf.edu>

*Undergraduate Program Director:* Dorilyn Hitchcock

E-mail: [hitchcod@mail.ucf.edu](mailto:hitchcod@mail.ucf.edu)

**Admission Requirements**

**Limited Access**

Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

- **Separate application** to the *limited access program* should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.
- UCF application must also be submitted by the program deadline. Acceptance to UCF is necessary before acceptance to the program can occur.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0)

**Degree Requirements**

- The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS - 8410 Bryn Mawr Avenue Suite 670, Chicago, IL 6063) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program

Prerequisite Requirements before transferring within the Florida Public University/Community College System

- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program
- UCF Residency Requirement: 32 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours
- An FDLE background check and Board of Clinical Lab Personnel trainees license are required.

### 1. UCF General Education Program (36 + 2 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	
Select BSC 2010C	4 hrs
Select CHM 2045C	4 hrs

### 2. Common Program Prerequisites (25 hrs)

BSC 2010C	General Biology and lab	GEP	4 hrs
CHM 2045C, 2046	Chemistry Fundamentals I&II w/labs	GEP, 4 hrs	
STA 2023	Statistical Methods I	GEP	
ZOO 3733C	Human Anatomy and Lab*		4 hrs
CHM 2210, 2211	Organic Chemistry I&II w/labs		8 hrs
MCB 3020C	General Microbiology*		5 hrs
PCB 3703C	Human Physiology and Lab*		4 hrs

\* see Transfer Notes

### 3. Core Requirements (63 hrs)

MLS 3220C	Clinical Microscopy with lab	3 hrs
MLS 4625	Advanced Clinical Chemistry I /lab	3/1 hrs
MLS 4630	Advanced Clinical Chemistry II	3 hrs
PCB 3233	Immunology with Lab	3/1 hrs
MLS 4430C	Clinical Parasitology	2 hrs
MLS 3305	Hematology with Lab	3/1 hrs
MLS 4505C	Immunodiagnosics	3 hrs
MLS 4910	Intro to Clinical Research	1 hr
MLS 4550	Clinical Immunohematology	4 hrs
MLS 4460C	Clinical Pathogenic Microbiology	5 hrs
MLS 4334	Hemostasis	3 hrs
MLS 4933	Medical Technology Seminar	1 hrs
MLS 3705	Concepts in Education/Management	3 hrs
MLS 4830C	Interpretive & Practical Clinical Chem	4 hrs
MLS 4831C	Interpretive & Practical Immunohematology	4 hrs
MLS 4832C	Interpretive & Practical Hematology	4 hrs
MLS 4833C	Diagnostic Microbiology	4 hrs
CGS 2100CC	Computer Fundamentals for Business	3 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs

### 4. Upper Division Restricted Electives none

### 5. Departmental Exit Requirements (126 hrs)

- A minimum 2.5 overall GPA is required for clinical assignment.
- The Degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University's didactic component and the clinical component in affiliated hospital laboratories
- Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and then qualify for State Licensure
- Students must earn a grade of "C" (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation

### 6. Electives none

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

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

### Graduation: none

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA

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

### Total Semester Hours Required 126 hrs

**Related Programs:** Molecular Biology and Microbiology, Biology, Chemistry

**Related Minors:** Molecular Biology and Microbiology, Biology, Chemistry

### Transfer Notes:

Community College Equivalencies	
Human Anatomy and Physiology I & II (BSC 2093C and 2094C)	8 hrs
General Microbiology/Lab (MCB 3020C)	4 hrs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

### Tentative Course Schedule for Entering Freshmen

<b>Freshman Year</b>			
<b>Fall</b>	<b>16 hrs</b>	<b>Spring</b>	<b>17 hrs</b>
ENC 1101	3	ENC 1102	3
MAC 1105	3	BSC 2010C	4
SPC 1600	3	CHM 2046	3
CHM 2045C	4	CHM 2046L	1
CGS 2100CC		3	ANT 2000 or SYG
2000	3		

or PSY 2012  
STA 2023 3

<b>Sophomore Year</b>			
<b>Fall</b>	<b>16 hrs</b>	<b>Spring</b>	<b>17 hrs</b>
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 2210	3	PCB 3703C	4
or AMH 2010		EUH 2001 or	3
MUL 2010 or THE 2000	3	HUM 2230 or	
or REL 2300 or PHI 2010		AMH 2020	

<b>Junior Year</b>			
<b>Fall</b>	<b>13 hrs</b>	<b>Spring</b>	<b>16 hrs</b>
MLS 3220C	3	MLS 3305/L3/1	
MLS 4625/L	3/1	MLS 4630	3
PCB 3233/L	3/1	MLS 4460C	5
MLS 4430C	2	MLS 4550	4

<b>Summer</b>			
	<b>6 hrs</b>		
CGS 1060	3		
MLS 4334	3		

<b>Senior Year</b>			
<b>Fall</b>	<b>16 hrs</b>	<b>Spring</b>	<b>12</b>
MLS 4830C	4	MLS 4912	1
MLS 4831C	4	MLS 4505C	3
MLS 4832C	4	MLS 4933	1
MLS 4833C	4	MLS 3705	3
		BSC 3403C	4

## MODERN LANGUAGE COMBINATION (B.A.)

**College of Arts and Humanities**

**Department of Modern Languages & Literatures, CNH 523**

<http://pegasus.cc.ucf.edu/~forlang>

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

P. Giordano, 407-823-2472

**Admission Requirements none**

Placement in Language courses

- Placement in language courses is based on one year of high

# UCF Degree Programs

school language being equivalent to one semester of college work. Students must consult an advisor.

- Native speakers or students who have received advanced education abroad must substitute select classes.

## Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Language combinations may consist of French, German or Spanish as a first language and any of those three as a second language, as well as Italian.
- 24 credits in the first language and 15 credits in the second must be taken at the 3000 level or above.
- At least 33 hours must be taken in Modern Language courses taught in the target language.
- Students must earn at least a "C" (2.0) in each upper division foreign language course.
- Co-op or internship credit cannot be used in this major
- Departmental Residency Requirement consists of at least 21 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which studied by Examination in literature courses only.
- Students must see their departmental advisor for counseling and schedule approval before registering.
- Students designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

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

### 2. Common Program Prerequisites (0-14 hrs)

Completion of Intermediate level of proficiency.

### 3. Core requirements-first language (24 hrs)

(French, German or Spanish)

- a. Composition (select one) 3 hrs
  - SPN 3420\* Spanish Composition
  - FRE 3420\* French Composition
  - FRE 4422\* Advanced French Composition
  - GER 3420\* German Composition
- b. Oral Communication (select one) 3 hrs
  - SPN 3760\* Adv Spanish Oral Communication
  - FRE 3760\* Adv French Oral Communication
  - FRE 4421\* Adv French Conversation
  - GER 3760\* Adv German Oral Communication

\* A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.

- c. Literature (select one sequence) 6 hrs
  - SPW 3100 & 3101 Survey of Spanish Literature
  - SPW 3130 & 3131 Survey of Latin American Literature
  - FRW 3100 & 3101 Survey of French Literature
  - GEW 3100 & 3101 Survey of German Literature
- d. Linguistics (select one) 3 hrs
  - FRE 3780 French Phonetics and Diction
  - FOL 3730 Romance Philology
  - GER 3780 German Phonetics and Diction
  - SPN 4801 Spanish Morphosyntax
  - SPN 4800 Spanish American Syntax
  - SPN 4780 Spanish Phonetics
- e. Restricted Electives in the first language (chosen with departmental advisor) 9 hrs

### 4. Core requirements-second language (15 hrs)

(French, German, Spanish, or Italian)

- a. Composition (select one) 3 hrs
  - SPN 3420, FRE 3420, GER 3420, ITA 3420
- b. Advanced Oral Communication (select one) 3 hrs
  - SPN 3760, FRE 3760, GER 3760, or ITA 3760
- c. Restricted Electives in the second language (chosen with departmental advisor) 9 hrs

### 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 39 hrs of upper division Modern Language courses
- Students are required to satisfactorily complete a departmental exit exam
- Computer Competency met by CGS 1060C or equivalent

### 6. Foreign Language Requirements (0-16 hrs)

Admission: Met by Graduation requirements.

Graduation: Met by degree program requirements (four semesters or proficiency).

### 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 8. University Minimum Exit Requirements

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

### Total Semester Hours Required

120 hrs

### Related Programs: French, Spanish

Related Minors: French, German, Italian, Judaic Studies, Latin American Area Studies, Spanish

### Transfer Notes:

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

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Freshman Year

Fall	Spring
BSC 1005* req# 1E2-GEP	ENC 1102 Composition II
ENC 1101 Composition I	MUL 2010* req# 1B2-GEP
AMH 2010* req# 1B1-GEP	POS 2041* req# 1D1-GEP
MGF 1106* req# 1C1-GEP	STA 1060C* req# 1C2-GEP
SPN 1120* req# 2-CPP	SPN 1121* req# 2-CPP

#### Sophomore Year

Fall	Spring
ANT 2000* req# 1D2-GEP	REL 2300* req# 1B3-GEP
PSC 1121* req# 1E1-GEP	SPN2201* req# 2-CPP
COM 1000* req# 1A3-GEP	Elective* Check restrictions
SPN 2200* req# 2-CPP	Elective* Check restrictions
FRE 1120* req# Lang/Elect	FRE 1121* req# Lang/Elect

#### Junior Year

Fall	Spring
SPN 3420* req# 3a-Core1	SPW 3101* req# 3c-Core1
SPN 3760* req# 3b-Core1	FRE 3420* req# 4a-Core2
SPN 3300* req# 3e-Core1	FRE 3760* req# 4b-Core2
Elective* Check restrictions	Elective* Check restrictions
FRE 2200* req# Lang/Elect	Elective* Check restrictions

#### Senior Year

Fall	Spring
SPW 3100* req# 3c-Core1	SPN 3780* req# 3d-Core1
SPN 4410* req# 3e-Core1	SPN 4421* req# 3e-Core1
FRE 4421* req# 4c-Core2	FRE 4422* req# 4c-Core2
FRW 3100* req# 4c-Core2	Elective* Check restrictions
Elective* Check restrictions	



**MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)**

**Burnett College of Biomedical Sciences**

**HPA2 335, 407-823-5932**

**Molecular Biology and Microbiology Department**

**<http://www.biomed.ucf.edu>**

**Chair: P.E.Kolattukudy**

**Admission Requirements** **none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

**1. UCF General Education Program (38-39 hrs)**

(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

**A. Communication Foundations**

- Select ENC 1101, ENC 1102 6 hrs
- Prefer SPC 1016 Tech Presentations 3 hrs

**B. Cultural Historical Foundations** 9 hrs

**C. Mathematical Foundations**

- Select MAC 2311 or MAC 2253 3-4 hrs
- Select STA 2023 or CGS 1060 3 hrs

**D. Social Foundations** 6 hrs

**E. Science Foundations**

- Select BSC 2010C 4 hrs
- Select CHM 2045C 4 hrs

**2. Common Program Prerequisites (16 hrs)**

- |                        |                                     |            |  |
|------------------------|-------------------------------------|------------|--|
| BSC 2010C              | Biology I                           | GEP        |  |
| BSC 2011C              | Biology II                          | 4 hrs      |  |
| CHM 2045C, 2046, 2046L | General Chemistry I, II, + Lab      | GEP, 4 hrs |  |
| CHM 2210, 2211, 2211L  | Organic Chemistry I, II, + Lab      | 8 hrs      |  |
| MAC 2311               | Calculus with Analytical Geometry I | GEP        |  |

**3. Core Requirements (33 hrs)**

**Life Sciences**

- |                 |                                       |       |
|-----------------|---------------------------------------|-------|
| MCB 3020C       | General Microbiology                  | 5 hrs |
| MCB 4414        | Microbial Metabolism                  | 3 hrs |
| PCB 4239, 3233L | Molecular Immunology + Immunology Lab | 4 hrs |
| PCB 3522, 4524  | Molecular Biology I, II               | 6 hrs |
| BSC 3403C       | Quantitative Biological Methods       | 4 hrs |

**Chemistry**

- |          |                |       |
|----------|----------------|-------|
| BCH 4053 | Biochemistry I | 3 hrs |
|----------|----------------|-------|

**Physics\*\***

- |                              |                       |       |
|------------------------------|-----------------------|-------|
| PHY 2053C, 2054C             | College Physics I, II | 8 hrs |
| or 2048, 2049C               |                       |       |
| Math**, Statistics, Computer |                       |       |
| MAC 2311 or MAC 2253         | GEP                   |       |
| STA 2023 or CGS 1060C        | GEP                   |       |

\*\* Those students interested in pursuing graduate or professional education are strongly advised to select the following courses. Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Applied Calculus I & II (MAC 2253, 2254) or Calculus with Analytic Geometry I & II (MAC 2311, 2312).

**4. Upper Division Restricted Elective (7 courses minimum)**

(Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Only three hours of Honors thesis will count towards restrictive elective requirement.)

- |           |                     |       |
|-----------|---------------------|-------|
| *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 3063	Genetics	3 hrs
*MCB 4312	Molecular Biotechnology	3 hrs
MCB 4503C	Virology	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 5654	Applied Microbiology	3 hrs
MLS 3220C	Clinical Microscopy with lab	3 hrs
*MLS 3305	Hematology	3 hrs
*MLS 4334	Hemostasis	3 hrs
*MLS 4430C	Clinical Parasitology	2 hrs
*MLS 4505C	Immunodiagnosics	3 hrs
MLS 4625	Advanced Clinical Chemistry I	3 hrs
MLS 4630	Advanced Clinical Chemistry II	3 hrs
*PCB 3703C	Human Physiology	4 hrs
*PCB 4805	Endocrinology	3 hrs
PCB 4529	Experimental Molecular Biology	3 hrs
PCB 5275	Signal Transduction Mechanisms	3 hrs
PCB 5238	Immunobiology	4 hrs
PCB 5239	Tumor Biology	3 hrs
PCB 4XXX	Genetics II	3 hrs
*ZOO 3701C	Human Gross Anatomy	3 hrs
*ZOO 3733C	Human Anatomy	4 hrs
*ZOO 4603C	Vertebrate Embryology	5 hrs
*ZOO 3744	Neurobiology	3 hrs
*ZOO 4704C	Clinical Neuroanatomy & Neuroscience	4 hrs
*ZOO 4753C	Vertebrate Histology	4 hrs
ZOO 5745C	Essentials of Neuroanatomy	4 hrs
ZOO 4XXX	Human Clinical Embryology	3 hrs

\* Recommended for Preprofessional students

**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 pass 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 residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** **120 hrs**

**Related Programs:** Biology, Chemistry, Medical Lab Science

**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 com-

# UCF Degree Programs

plete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University's requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level **must** take an additional 8 eight hours of upper division coursework at UCF.

## Honors in the Major

- Application and admission through the department and THC
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H "Quantitative Biological Methods" with a grade of B or better (4 credits)
- Complete MCB 4970H "Honors Thesis" with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits)

## Tentative Course Schedule for Entering Freshmen

### Freshman Year

Fall	13 hrs	Spring	16 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000 <i>or</i> ANT 2000	3	CHM 2046	3
CHM 2045C	4	CHM 2046L	1
MAC 1105	3	MAC 1114	3
		BSC 2010C	4
		SLS 2311C*	2
		(Preprofessional)	

### Sophomore Year

Fall	14/15 hrs	Spring	15 hrs
CHM 2210	3	CHM 2211	3
MCB3020C	5	CHM 2211L	2
MAC 2311* <i>or</i> MAC 2253	4/3	STAT 2023	3
EUH 2000 <i>or</i> AMH 2010 <i>or</i> WOH 2012 <i>or</i> HUM 2210	3	<i>or</i> CGS 1060C	
		BSC 3403	4
		EUH 2001	3
		<i>or</i> AMH 2020	
		<i>or</i> HUM 2230 <i>or</i> WHO 2022	

*Plan your required 9 summer hours into your course of study*

### Junior Year

Fall	17 hrs	Spring	6/17 hrs
PCB 3522	3	PCB 4524	3
Restrictive Elective	3	PCB 4239 & PCB 3233L4	4
PHY 2053C <i>or</i> PHY 2048* and 2048L	4	PHY 2045C*	4
		<i>or</i> PHY2049, 2049L	
BSC 2011C	4	Restricted Electives	2
ECO 2013 or POS 2041	3	Restricted Elective	3/4

\*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.

### Senior Year

Fall	15/16 hrs	Spring	12/15 hrs
MCB 4414	3	Restricted Elective	3/4
BCH 4053	3/4	Restricted Elective	3/4
Restricted elective	3	Restricted Elective	3/4
Restricted Elective	3/4	SPC 1600*	3
A course from Cultural and HistoricalFoundations Group	3	<i>or</i> SPC 1016	
		*recommend SPC 1016	

## MOLECULAR BIOLOGY AND MICROBIOLOGY- PREPROFESSIONAL CONCENTRATION (B.S.)

### Burnett College of Biomedical Sciences

HPA2 335, 407-823-5932

<http://www.biomed.ucf.edu>

**Chair: P.E. Kolattukudy**

Students desiring admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) will meet all the admission requirements for those programs while obtaining a Molecular Biology and Microbiology degree.

## Admission Requirements

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 and the Prehealth Professions Advisement Office in HPA2 0124.
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

## 1. UCF General Education Program (38-39 hrs)

(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations		
Select ENC 1101, ENC 1102		6 hrs
Prefer SPC 1016 Tech Presentations		3 hrs
B. Cultural Historical Foundations		9 hrs
C. Mathematical Foundations		3-4 hrs
Select STA 2023 or CGS 1060C		3 hrs
D. Social Foundations		6 hrs
E. Science Foundations		
Select BSC 2010C		4 hrs
Select CHM 2045C		4 hrs

## 2. Common Program Prerequisites (16 hrs)

BSC 2010C	Biology I	GEP
BSC 2011C	Biology II	4 hrs
CHM 2045C, 2046, General Chemistry I, II, + Lab		GEP, 4 hrs
2046L		
CHM 2210, 2211, Organic Chemistry I, II, + Lab		8 hrs
2211L		
MAC 2311	Calculus with Analytical Geometry I	GEP

## 3. Core Requirements (35 hrs)

<b>Life Sciences</b>		
MCB 3020C	General Microbiology	5 hrs
MCB 4414	Microbial Metabolism	3 hrs
PCB 4239, 3233L	Molecular Immunology + Immunology Lab	4 hrs
PCB 3522, 4524	Molecular Biology I, II	6 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
SLS 2311C	Selected Medical Careers	2 hrs
<b>Chemistry</b>		
BCH 4053	Biochemistry I	3 hrs
<b>Physics**</b>		
PHY 2053C, 2054C	College Physics I, II	8 hrs
<i>or</i> 2048, 2049C		
<b>Math**, Statistics, Computer</b>		
MAC 2311 <i>or</i> MAC 2253		GEP
STA 2023 <i>or</i> CGS 1060C		GEP

\*\* Those students interested in pursuing graduate or professional education are encouraged to select the following courses: Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Applied Calculus I & II (MAC 2253, 2254) or Calculus with Analytic Geometry I & II (MAC 2311, 2312).

## 4. Upper Division Restricted Electives (7 courses minimum) (19 hrs min)

(Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Only three hours of Honors thesis will count towards restrictive elective requirement.)

Students in the preprofessional concentration of the Molecular Biology and Microbiology program are recommended to choose from the following restricted electives:

BCH 4054	Biochemistry II	3 hrs
MCB 3203, 3203L	Pathogenic Microbiology + Lab	4 hrs
PCB 3063	Genetics	3 hrs
MCB 4312	Molecular Biotechnology	3 hrs
MCB 4503C	Virology	3 hrs
MCB 4970H	Honors Thesis	3 hrs
MCB 5205	Infectious Process	3 hrs
MCB 5225	Molecular Biology of Disease	3 hrs
MLS 3305	Hematology	3 hrs

MLS 4334	Hemostasis	3 hrs
MLS 4430C	Clinical Parasitology	2 hrs
MLS 4505C	Immunodiagnosics	3 hrs
PCB 3703C	Human Physiology	4 hrs
PCB 4XXX	Genetics II	3 hrs
PCB 4805	Endocrinology	3 hrs
PCB 5238	Immunobiology	3 hrs
ZOO 3701C	Human Gross Anatomy	2 hrs
ZOO 3733C	Human Anatomy	4 hrs
ZOO 4603C	Vertebrate Embryology	5 hrs
ZOO 4704C	Clinical Neuroanatomy and Neuroscience	4 hrs
ZOO 3744	Neurobiology	3 hrs
ZOO 4753C	Vertebrate Histology	4 hrs
ZOO 4XXX	Human Clinical Embryology	3 hrs

**5. Departmental Exit Requirements**

To be eligible for a major in Molecular Biology and Microbiology, Preprofessional Concentration:

- A student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- Independent study, directed research, or similar credit may not be used as a Restricted Elective
- A minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to pass a comprehensive test during their last semester

**6. Electives (variable)**

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

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

**Graduation:** none

**8. University Minimum Exit Requirements**

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

**Total Semester Hours Required 120 hrs**

**Related Programs:** Biology, Chemistry, Medical Lab Science

**Related Minors:** Biology, Chemistry

**Transfer Notes:**

Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University's requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level **must** take an additional 8 eight hours of upper division coursework at UCF.

**Honors in the Major**

- Application and admission through the department and the Burnett Honors College
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H "Quantitative Biological Methods" with a grade of B or better (4 credits)
- Complete MCB 4970H "Honors Thesis" with a grade of B or better and successfully complete the oral defense of the Honors Thesis

(3 credits)

**Tentative Course Schedule for Entering Freshmen**

<b>Freshman Year</b>			
<b>Fall</b>	<b>13 hrs</b>	<b>Spring</b>	<b>16 hrs</b>
ENC 1101	3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000	3	SLS 2311C	2
<i>or</i> ANT 2000		CHM 2046	3
CHM 2045C	4	CHM 2046L	1
MAC 1105 or elective	3	BSC 2010C	4
		MAC 1114 or elective	3
<b>Sophomore Year</b>			
<b>Fall</b>	<b>14/15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
CHM 2210	3	CHM 2211	3
MCB3020C	5	CHM 2211L	2
MAC 2311* <i>or</i> MAC 2253	4/3	STAT 2023 or CGS 1060C	3
EUH 2000 <i>or</i> AMH 2010		BSC 3403	4
<i>or</i> WOH 2012 <i>or</i> HUM 2210	3	EUH 2001 <i>or</i> AMH 2020	3
			<i>or</i>

HUM 2230 *or* WHO 2022

*Plan your required 9 summer hours into your course of study*

**Junior Year**

<b>Fall</b>	<b>17 hrs</b>	<b>Spring</b>	<b>16/17 hrs</b>
PCB 3522	3	PCB 4524	3
Restricted Elective	3	PCB4239 + PCB 3233L	4
PHY 2053C <i>or</i> PHY 2048*	4	PHY 2045C*	4
and 2048L		<i>or</i> PHY2049, 2049L	
BSC 2011C	4	Restricted Elective	2
ECO 2013 or POS 2041	3	Restricted Elective	3/4

\*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.

**Senior Year**

<b>Fall</b>	<b>15/16 hrs</b>	<b>Spring</b>	<b>12/15 hrs</b>
MCB 4414	3	Restricted Elective	3/4
BCH 4053	3	Restricted Elective	3/4
Restricted Elective	3	Restricted Elective	3/4
Restricted Elective	3/4	SPC 1600* <i>or</i> SPC 1016	3
Cultural/Historical	3	*recommend SPC 1016	

**MOLECULAR BIOLOGY AND MICROBIOLOGY-UCF/USF Accelerated Medical School Program (B.S.) (See "Accelerated Programs")**

**MOTION PICTURE TECHNOLOGY (See Film)**

**MUSIC (B.A.)**

**College of Arts and Humanities  
Department of Music, CNH 205A  
<http://www.cas.ucf.edu/music/>  
**E-mail: music@mail.ucf.edu****

Eugene Montague, E-mail: [emontagu@mail.ucf.edu](mailto:emontagu@mail.ucf.edu), 407-823-1145  
Scott Warfield, E-mail: [swarfiel@mail.ucf.edu](mailto:swarfiel@mail.ucf.edu), 407-823-1144

**Requirements for Admission**

- Each student must-complete and pass an interview with either a B.A. advisor or the Department Chair.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department
- Each student must complete a faculty approved capstone project.
- Co-op or internship credit cannot be used in this major
- Students should consult with a departmental advisor for course selections
- Courses designated in 1 (General Education Program) are usually spread over the full four years
- Courses designated in 2 (Common Program Prerequisites) are

# UCF Degree Programs

usually completed in the first 60 hours

<b>1. UCF General Education Program</b>	<b>(36 hrs)</b>
(see General Education Program for detailed information)	
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select one course from 1.B.1 list	3 hrs
Select MUH 4212 History and Literature II	3 hrs
Select one course from 1.B.1 or 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer 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

<b>2. Common Program Prerequisites</b>	<b>(20-24 hrs)</b>
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 Ensembles	4 hrs
MVK 1111-2121-3131-4141 * Class Piano I-II-III-IV	0-4 hrs
(repeat MVK 3131-4141 Class Piano III-IV until proficiency passed)	
MVx XXXX Secondary Performance	4 hrs

\*See Transfer Notes for possible substitutes

<b>3. Core Requirements</b>	<b>(6 hrs)</b>
MUS 1010 Music Forum (four semesters)	0 hrs
MUT 3571 20th Century Musical Analysis	3 hrs
MVx XXXX Secondary Performance	CPP
MUN XXXX Ensembles	CPP
MUH 4211 History & Literature I	3 hrs
MUH 4212 History & Literature II	GEP

<b>4. Restricted Electives-Music</b>	<b>(12-16 hrs)</b>
Choose from any MUX 3XXX or 4XXX (No more than 6 of these credits can be taken as MUN courses.)	

<b>5. Restricted Electives-Non-Music</b>	<b>(9 hrs)</b>
Select primarily from upper-level courses, with departmental advisor's approval. Prefer courses within related arts and humanities departments including Art, Digital Media, English, Film, Modern Languages, History, Philosophy, and Theater.	

<b>6. Electives</b>	<b>(variable)</b>
Select primarily from upper-level courses. A maximum of six (6) hours may be taken in music. All other hours must be taken outside the department.	

<b>7. Minor Ensemble Participation</b>	
■ If minor ensemble is taken at UCF, the two semester hours of credit must be completed in two separate semesters	
■ If minor ensemble credits are transferred to UCF, each remaining hour must be taken in a separate semester	
■ Minor ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, and Jazz Lab	

<b>8. Departmental Exit Requirements</b>	<b>(3 hrs)</b>
■ MUS 4XXX Capstone/Senior Thesis Project	3 hrs
■ Earn a grade of "C" (2.0) or better in each Music course	
■ Computer Competency met by STA 1060C, or departmental examination	

<b>9. Foreign Language Requirements</b>	<b>(0-8 hrs)</b>
<b>Admission:</b> Met by graduation requirement	
<b>Graduation:</b> Proficiency equivalent to two semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one	

semester of the Graduation requirement.

<b>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 credits permitted	
■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)	
<b>Total Semester Hours Required</b>	<b>120 hrs</b>

**Related Programs:** Music Education, Music (BM), Theatre, Musical Theatre

**Related Minors:** Music, Theatre

**Transfer Notes:**

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

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- MUT 1111\*, MUT 1112\*: May use MUT 1121, MUT 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241\*, MUT 1242\*: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
- MUT 2116\*, MUT 2117\*: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 2246\*, MUT 2247\*: May use MUT 2226, MUT 2227, or MUT 2266, MUT 2267, or MUT 2276, MUT 2277.
- MVK 1111, MVK 2121\*: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<b>Freshman Year</b>			
<b>Fall</b>		<b>Spring</b>	
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210* req# 1B1-GEP	3	HUM 2230* req# 1B2-GEP	3
MGF 1106* req# 1C1-GEP	3	STA 1060C* req# 1C2-GEP	3
MUN 3143* req# 2-CPP	1	MUN 3143* req# 2-CPP	1
MUT 1111 Music Theory IA	2	MUT 1112 Music Theory IB	2
MUT 1241 Ear Train Sing IA	1	MUT 1242 Ear Train Sing IB	1
MVK 1111 Class Piano I	1	MVK 2121 Class Piano II	1
MVW 1211* req# 2-CPP	1	MVW 1211* req# 2-CPP	1
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0

<b>Sophomore Year</b>			
<b>Fall</b>		<b>Spring</b>	
POS 2041* req# 1D1-GEP	3	ANT 2000* req# 1D2-GEP	3
PSC 1121* req# 1E1-GEP	3	MUN 3143* req# 2-CPP	1
MUN 3143* req# 2-CPP	1	MUT 2117 Music Theory IIB	2
MUT 2116 Music Theory IIA	2	MUT 2247 Ear Train Sing IIB	1
MUT 2246 Ear Train Sing IIA	1	MVK 4141 Class Piano IV	1
MVK 3131 Class Piano III	1	MVW 1211* req# 2-CPP	1
MVW 1211* req# 2-CPP	1	MUS 1010 Music Forum	0
MUS 1010 Music Forum	0	Elective* Check restrictions	4
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3

<b>Junior Year</b>			
<b>Fall</b>		<b>Spring</b>	
SPC 1600* req# 1A3-GEP	3	MUH 4212 History and Lit II	3
MUH 4211 History and Lit I	3	MUT 3171* req# 4-ResElec	2
MUT 3170* req# 4-ResElec	2	Elective* Check restrictions	3
Elective* Check restrictions	3	SPN 1121* req# Lang/Elect	4
SPN 1120* req# Lang/Elect	4	Restricted* req# Res Elect	3

Senior Year			
Fall		Spring	
MUT 3571 20th Cent Mus Anal	3	ANT 2511* req# 1E2-GEP	3
MUN 3423* req# 4-ResElec	1	MUN 4476* req# 4-ResElec	1
MUT 3641* req# 4-ResElec	2	MUT 3401* req# 4-ResElec	3
THE 2000* req# 5-RE-Arts	3	MUT 4344* req# 4-ResElec	1
THE 4244* req# 5-RE-Arts	3	THE 4245* req# 5-RE-Arts	3
Elective* Check restrictions	3	Capstone Thesis See catalog.	3

**MUSIC EDUCATION (B.M.E.)**

**College of Arts and Humanities**  
**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.
- Demonstrate professional, vocal, and aural skill proficiency in an interview with Music Education faculty.

**Admission Requirements**

- Music Education (Professional Program) Students who wish to be accepted into the Music Education Professional Program must complete the following requirements:
- Have a minimum overall GPA of 2.5 and a grade of "C" (2.0) or better in each performance, education, and music education course.
- Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) or the General Knowledge Test of the Florida Teacher Competency Examination.
- Must meet the College of Education's requirements for admission to Internships I and II (see *College of Education, Office of Clinical Experiences*)
- Pass the Music Education Proficiency (taken during completion of Performance II)

**Note:** Students who change degree programs and select this major must adopt the most current catalog.

**Degree Requirements**

**1. UCF General Education Program (36 hrs)**

<b>A. Communication Foundations (9 hrs)</b>			
ENC 1101	Composition I		3 hrs
ENC 1102	Composition II		3 hrs
SPC 1600	Fundamentals of Oral Communication		3 hrs
<b>B. Cultural-Historical Foundations (9 hrs)</b>			
AMH 2010	U.S. History 1492-1877		3 hrs
AMH 2020	U.S. History 1877-Present		3 hrs
MUH 4212	History and Literature II		3 hrs
<b>C. Mathematical Foundations (6 hrs)</b>			
Prefer MGF 1106	Finite Mathematics		3 hrs
<b>Select one:</b>			3 hrs
STA 1060C	Basic Statistics Using Excel <i>or</i>		
STA 2014C	Principles of Statistics		
<b>D. Social Foundations (6 hrs)</b>			
POS 2041	American National Government		3 hrs
PSY 2012	General Psychology		3 hrs
<b>E. Science Foundations (6 hrs)</b>			
PSC 1121	Physical Science		3 hrs
<b>Select one:</b>			3 hrs
ANT 2511	The Human Species <i>or</i>		
BSC 1005	Biological Principles		

**Note:** See laboratory component under Section 2.

**2. Common Program Prerequisites (19 hrs)**

<b>A. Communications (0 hrs)</b>			
ENC 1101	Composition I		GEP
ENC 1102	Composition II		GEP
SPC 1600	Fundamentals of Oral Communication		GEP
<b>B. Humanities (3 hrs)</b>			
PHI 2010	Introduction to Philosophy		3 hrs
MUH 4212	History and Literature II		GEP
<b>C. Mathematics (3 hrs)</b>			
MAC 1105	College Algebra		3 hrs
MGF 1106	Finite Mathematics		GEP
One of the following (per GEP)			
STA 1060C	Basic Statistics using MS Excel <i>or</i>		
STA 2014C	Principles of Statistics		GEP
<b>D. Social Science/History (0 hrs)</b>			
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
<b>E. Science (4 hrs)</b>			
PSC 1121	Physical Science		GEP
One of the following (per GEP)			
ANT 2511	The Human Species <i>or</i>		
BSC 1005	Biological Principles		
<b>Select one:</b>			
AST 2002	Astronomy <i>or</i>		3 hrs
GLY 1030	Geology and its Applications		
<b>Select one associated science lab</b>			
BSC 1005L	Biological Principles Laboratory <i>or</i>		1 hrs
PSC 1121L	Physical Science Laboratory		
<b>F. Education Courses (9 hrs)</b>			
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
<b>G. International/Diversity Courses GEP</b>			

**3. Other Program Prerequisites (27 hrs)**

MUN XXXX	Major Ensembles (4 semesters)		4 hrs
MUT 1111	Music Theory IA		2 hrs
MUT 1112	Music Theory IB		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
MUT 2246	Ear Training & Sight Singing IIA		1 hr
MUT 2247	Ear Training & Sight Singing IIB		1 hr
MVK 1111	Class Piano I		1 hr
MVK 2121	Class Piano II		1 hr
MVK 3131	Class Piano III		1 hr
MVK 4141	Class Piano IV		1 hr
MVx XXXX	Performance (4 semesters)		8 hrs

**4. Core Requirements (37 hrs)**

MUN XXXX	Major Ensembles (2 semesters)		2 hrs
MUS 1010	Music Forum (6 semesters)		0 hrs
MV XXXX	Performance (2 semesters)		4 hrs
MUG 3104	Basic Conducting		2 hrs
MUH 4211	History & Literature I		3 hrs
MUH 4212	History & Literature II		GEP
MUE 2440	String Techniques		1 hr
MUE 2450	Woodwind Techniques		1 hr
MUE 2460	Brass Techniques		1 hr
MUE 2470	Percussion Techniques		1 hr
EDF 4214	Classroom Learning Principles		3 hrs
EDF 4603	Analysis of Critical Issues in Education		3 hrs
EDG 4323	Professional Teaching Practices		3 hrs
TSL 4080	Teaching LEP Children		3 hrs
RED 4043	Teaching Reading in the Content Area		3 hrs
ESE 3940	Internship I - Secondary		3 hrs
MUE 4311	Elementary School Music Methods		2 hrs
MUE 4330	Secondary School Music Methods		2 hrs

**5. Special Requirements (15 hrs)**

<b>Complete one program:</b>			
<b>Program A - Instrumental</b>			
MVV 1111	Class Voice (or proficiency)		0-1 hr
MUG 3302	Instrumental Conduct & Materials		2 hrs
MUE 4480C	Marching Band Techniques		1 hr
ESE 4943	Internship II - Secondary		12 hrs
<b>Program B Choral</b>			

# UCF Degree Programs

MUG 3202	Choral Conduct & Materials	2 hrs
MUS 1201	European Diction	1 hr
ESE 4943	Internship II - Secondary	12 hrs
<b>Program C - Elementary School</b>		
MVV 1111	Class Voice (for proficiency)	0-3 hrs
MUE 1291	Classroom Instruments	1 hr
MUE 3930	Special Topics in Elementary School Music	2 hrs
ESE 4943	Internship II - Secondary	12 hrs

## 6. Internships

**Internship I:** Students must have on file in the University admissions office passing scores on 4 parts of the CLAST and have passed 4 of the 5 music proficiency/comprehensive exams (including the Music Education) before enrolling in Internship I. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator. During the semester, students spend two full days per week (Tuesday and Thursday) in the field with half the time in an Elementary setting and half in a Secondary school setting. Components of the experience include directed observation, collaborative planning, guided participation, and collaborative evaluation. Students are expected to provide their own transportation to assigned locations.

**Internship II:** Students must have on file in the University admissions office passing scores on 4 parts of the CLAST; successfully completed Internship I; and have passed all proficiency/comprehensive exams before enrolling in Internship II. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator five days a week for the entire semester, normally during the student's last semester. Students are permitted to enroll in other classes only with the consent of the departmental advisor. The semester of student teaching is divided into four types of activities: observing, assisting, teaming, and teaching. Student teachers become involved with children as rapidly as possible, and gradually assume a full responsibility for the classroom to which they have been assigned. As the experience draws to an end, the process should be reversed and supervising teachers take back their classes at convenient program breaks. Students are expected to provide their own transportation to assigned locations.

## 7. Special Non. - Course Requirements

**Note:** Contact the Music Education Advisor for details

- Music Education Proficiency Exam - take during the completion of the fourth semester of study, or after completing Performance II, Ensemble Participation

### Ensemble Participation

- Selected from University Chorus, Symphony Orchestra, Concert Band, Marching Band, and Wind Ensemble. Four hours of Jazz Lab may be used as a Major Ensemble credit
- Ensemble assignment is by the Ensemble directors
- Transfer students must take Major Ensemble during each of their remaining semesters, except when enrolled in Internship II
- Native UCF students must take each Ensemble credit in a separate semester
- Students taking a Performance course must concurrently take an appropriate major ensemble if accepted

### Recitals

- Students must complete a faculty-approved public recital (optional for students in the Elementary School Music Specialization)
- 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 MUS 2360C.
- Departmental Residency Requirement: at least 25 hours must be taken from the UCF Music Department. In addition, music education students must complete their last two semesters of required performance, recital, and Internship II while attending UCF

## 9. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation

**Graduation:** None

## 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits admitted

## 11. Total Semester Hours Required 134 hours

**Related Programs:** Music, Music (BFA), Theatre

**Related Minors:** Music, Theatre

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major
- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made 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:** Education majors are required to take six hours (in addition to

EDG 2701) that have an international or diversity focus. While native UCF students complete this requirement as part of the GEP, transfer students must take appropriate courses that have been so designated by their previous institution.

**Note:** Students must take a Natural Science class with the lab and should select a course that fulfills the GEP requirement.

## MUSIC PERFORMANCE (B.M.)

### College of Arts and Humanities

#### Department of Music, CNH 205

<http://www.cas.ucf.edu/music/>

**E-Mail:** [music@mail.ucf.edu](mailto:music@mail.ucf.edu)

John Almeida, E-mail: [hbbja@msn.com](mailto:hbbja@msn.com); 407-823-2510

George Weremchuk, E-mail: [gweremch@mail.ucf.edu](mailto:gweremch@mail.ucf.edu)

407-823-5261; Fax 407-823-3378

#### Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided by special request only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- In addition, composition students must submit a portfolio of compositions representing works in small and/or large forms
- The audition and examination scores will serve as a placement examination for accepted candidates

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department
- Performance and composition students must present two faculty-approved public recitals
- Students should consult with a departmental advisor for course selection
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

#### 1. UCF General Education Program (36 hrs)

(see General Education program for detailed information)

A. Communication Foundations	9 hrs
Select SPC 1600	
B. Cultural and Historical Foundations	
Select one course from 1.B.1 list	3 hrs
Select MUH 4212 History and Literature II	3 hrs
Select one course from 1.B.1 or 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

#### 2. Common Program Prerequisites (24 hrs)

MUT 1111*	Music Theory IA	2 hrs
MUT 1112*	Music Theory IB	2 hrs
MUT 1241*	Ear Training & Sight Singing IA	1 hr
MUT 1242*	Ear Training & Sight Singing IB	1 hr
MUT 2116*	Music Theory IIA	2 hrs
MUT 2117*	Music Theory IIB	2 hrs
MUT 2246*	Ear Training & Sight Singing IIA	1 hr
MUT 2247*	Ear Training & Sight Singing IIB	1 hr
MUN XXXX	Major Ensemble (four semesters)	4 hrs

(Piano students take MUN 3453, guitar students take MUN 3483)

MVB/MVK/MVP/ MVS/MVV/MVW	Perf or comp (four semesters)	8 hrs
MVK 1111-2121*	Class Piano I-II	2 hrs

\*See Transfer Notes for possible substitutes

#### 3. Core Requirements (18 hrs)

MVK 3131	Class Piano III	1 hr
MVK 4141	Class Piano IV	1 hr
MUS 1010	Music Forum (eight semesters)	0 hrs
MUT 3571	20th Century Musical Analysis	3 hrs
MVB/MVK/MVP/ MVS/MVV/MVW	Performance or composition (four including two semesters of Level IV)	8 hrs
MUN XXXX	Major Ensembles	2 hrs

(Piano students take MUN 3453, guitar students take MUN 3483)

MUG 3104	Basic Conducting	2 hrs
MUH 4211	History & Literature I	3 hrs
MUH 4212	History & Literature II	GEP

#### 4. Specialty Requirements: (24 hrs)

<b>Piano</b>		
MUL 3400	Piano Literature I	2 hrs
MUL 3401	Piano Literature II	2 hrs
MVK 4640	Piano Pedagogy I	1 hr
MVK 4641	Piano Pedagogy II	1 hr
Ensembles		
Major Not required		0 hrs
Minor-MUN 3453 Piano Ensemble		2 hrs
Restricted Electives		16 hrs
<b>Guitar</b>		
MUL3432	String Literature	2 hrs
MVS 4640	String Pedagogy	2 hrs
Ensembles		
Major Not required		0 hrs
Minor-MUN 3483 String Ensemble		2 hrs
Restricted Electives		18 hrs
<b>Voice</b>		
FRE 1005	French Diction	1 hr
GER 1005	German Diction	1 hr
ITA 1005	Italian Diction	1 hr
MVV 4640	Voice Pedagogy I	1 hr
MVV 4641	Voice Pedagogy II	1 hr
MUL 3603	Amer./English Song Literature	1 hr
MUL 3604	German Song Literature	1 hr
MUL 3605	French Song Literature	1 hr
Ensembles		
Major-MUN 3313 University Chorus		2 hrs
Minor-MUN XXXX		4 hrs
Restricted Electives		10 hrs
<b>Woodwinds</b>		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 3441	Woodwind Literature	2 hrs
MVV 3630	Woodwind Pedagogy	2 hrs
Restricted Electives		14 hrs
<b>Brass</b>		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 3442	Brass Literature	2 hrs
MVB 4640	Brass Pedagogy	2 hrs
Restricted Electives		14 hrs
<b>Percussion</b>		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 3463	Percussion Literature	2 hrs
MVP 3630	Percussion Pedagogy	2 hrs
Restricted Electives		14 hrs
<b>Strings</b>		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 3432	Strings Literature	2 hrs
MVS 4640	Strings Pedagogy	2 hrs
Restricted Electives		14 hrs
<b>Composition</b>		
MUT 3401	Counterpoint	3 hrs
MUT 5381	Arranging and Composing Music	3 hrs
MUG 3302	Instrumental Conducting & Materials	3 hrs
MUC 3311	MIDI Sequencing I	3 hrs
MUC 4441	MIDI Sequencing II	3 hrs
MUS 4347C	Digital Notation	3 hrs
MUT 3170	Jazz Theory I	2 hrs
Ensembles		
Major		4 hrs
Restricted Electives		0 hrs

#### 5. Restricted Electives (See above)

- Any secondary performance course not in area of major instrument or

## UCF Degree Programs

- Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

### 6. Special Non-Course 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
- Native UCF students must take each Major Ensemble credit in a separate semester:
- Students taking a course in Performance must concurrently take a major ensemble appropriate to their principal instrument or voice

#### Minor Ensemble Participation

- If Minor Ensemble is taken at UCF, the four semester hours of credit must be spread over at least three separate semesters
- If Minor Ensemble credits are transferred to UCF, each remaining credit must be taken in a separate semester
- Minor Ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, Jazz, Women's and Early Music Ensemble

#### Recitals

- Each student must perform two faculty-approved public recitals: a junior recital of 30 minutes length and a senior recital of 45 minutes length. Composition majors must present original musical compositions by the student.

### 7. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Music course
- Computer Competency met by CGS 1060C, or departmental examination

### 8. Foreign Language Requirements

(0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 9. Electives

(variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required**

**120 hours**

**Related Programs:** Music Education, Music (BA), Theatre

**Related Minors:** Music, Theatre

#### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- MUT 1111\*, MUT 1112\*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241\*, MUT 1242\*: May use MUT 1221, 1222, or MUT 1261, 1262 or MUT 1271, 1272.
- MUT 2116\*, MUT 2117\*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit

transfers as a free elective.

- MUT 2246\*, MUT 2247\*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277.
- MVK 1111, 2121\*: May use 1112, 2122 or MVK 1211, 2221

## NURSING (B.S.N.)

### A. BASIC PROGRAM

(For individuals who are not Registered Nurses)

College of Health and Public Affairs

HPA1 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

Director: Jean Leuner

Undergraduate Coordinator: Patricia Leli

E-mail: [ucfnurse@mail.ucf.edu](mailto: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 of the prior year for January admission on the Brevard and Daytona Campus (see information on Accelerated Second Degree program for deadline)
- Application for admission to the University must also be submitted by the program deadline
- Student must complete all general education, foreign language, and program prerequisite requirements prior to the start of the program. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.
- Three 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 apply to take the licensing examination for registered nurses (NCLEX). The program is accredited by the Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, and should be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- Any variation from the stated prerequisites must be approved in writing by the School of Nursing. Petition forms are available in



the School of Nursing office.

## 1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
MAC 1105	
Select STA 2014C	
D. Social Foundations	6 hrs
Select both SYG 2000 and PSY 2012*	
Select ECO 2013 or ECO 2023 or POS 2041	
E. Science Foundations:**	6 hrs
Select BSC 2010C	
Select CHM 1032 (and lab)	

\* One of these courses is required to meet General Education requirements, but both are required program prerequisites.

\*\* Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

## 2. Common Program Prerequisites (22 hrs)

PSY 2012	General Psychology**	GEP
SYG 2000	Sociology**	3 hrs
MCB 2004C	Health Microbiology	4 hrs
CHM 1032/L	General Chemistry and lab**	GEP
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology*	4 hrs
STA 2014C or 2023	Principles of Statistics**	GEP
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 semester general chemistry course does not meet requirement.

## 3. Core Requirements

**Students currently enrolled in the nursing program will complete the following core requirements (63 hrs):**

NUR 3026L	Therapeutic Interv. for Health Prof.	1 hr
NUR 3065	Health Assessment	2 hrs
NUR 3065L	Health Assessment Lab	1 hr
NUR 3165	Nursing Research	3 hrs
NUR 3235	Promoting Physical & Mental Health	5 hrs
NUR 3235L	Clin Pract in Prom Phys/Mental 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 3128	Pathophysiology & Pharmacology	5 hrs
NUR 4525	Nursing Intervention in Mental Illness	2 hrs
NUR 4525L	Clinical Practice w/ Mentally Ill Client	1 hr
NUR 4636	Community as the Continuum of Care	3 hrs
NUR 4636L	Clinical Pract in Comm.-Orient Nrsng	2 hrs
NUR 4745	Nursing Care of Clients w/ Acute Ill.	4 hrs
NUR 4745L	Clinical Practice in Acute Illness	4 hrs
NUR 4827	Leadership & Management Principles	3 hrs
*NUR 4945L	Nursing Practicum	4 hrs
NUR 4835	Role Transition	2 hrs
NUR 4837	Health Care Issues, Policy, & Econ	3 hrs
NUR 4XXX	Nursing Elective	3 hrs

*Any variation from the above must be approved by the School of Nursing.*

\*Some NUR 4945L placements require an elective to be taken concurrently.

**Students admitted as of fall 2006 will be enrolled in the following core requirements (64 hrs):**

NUR 3065	Health Assessment	2 hrs
NUR 3065L	Health Assess Lab	1 hr
NUR 3825	Role of Professional Nurse	2 hrs
NUR 3930 ST:	Essentials of Nursing Practice	2 hrs
NUR 3930L ST:	Essentials of Nursing Practice Clinical	3 hrs
NUR 3930 ST:	Community Health Nursing	3 hrs
NUR 3930L ST:	Community Health Nursing Clinical	2 hrs
NUR XXXX	Pathophysiology for Nurses	3 hrs
NUR 3930 ST:	Pharmacology for Nurses	3 hrs
NUR 3930 ST:	Nursing Care of the Adult I	3 hrs
NUR 3930L ST:	Nursing Care of the Adult I Clinical	2 hrs
NUR 3930 ST:	Nursing Care of Families	3 hrs
NUR 3930L ST:	Nursing Care of Families Clinical	2 hrs
NUR 3165	Nursing Research	3 hrs

NUR XXXX	Nursing Elective	3 hrs
NUR 4837	Health Care Issues, Policy, and Economics	3 hrs
NUR 4932 ST:	Nursing Care of the Adult II	3 hrs
NUR 4932L ST:	Nursing Care of the Adult II Clinical	3 hrs
NUR 4932 ST:	Psychiatric Mental Health Nursing	3 hrs
NUR 4932L ST:	Psychiatric Mental Health Nursing Clinical	2 hrs
NUR 4932 ST:	Leadership, Management and Role Transition	3 hrs
NUR 4932 ST:	Introduction to Critical Care	3 hrs
NUR 4932 ST:	Public Health Nursing	2 hrs
NUR 4932L ST:	Public Health Nursing Clinical	1 hr
NUR 4595	Nursing Practicum	4 hrs

*Any variation from the above must be approved by the school of Nursing.*

## 4. Upper Division Restricted Electives (3 hrs)

Nursing Elective:  
Any School of Nursing Elective approved by advisor

## 5. Departmental Continuation and Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

## 6. Electives None

## 7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

## 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required 121 hours**

**Related Programs:** Health Services Administration, Social Work, all health programs

**Related Minors:** Aging Studies Certificate, Psychology, Health Sciences, Health Services Administration

## Transfer Notes:

Examples of Community College Equivalent Courses - Prerequisites

General Psychology (PSY X012) or any General Psychology course	3
General Sociology (SYG 2000) or any Intro to Sociology course	3
Statistics (STA 2014C or 2023) or any Statistics course	3
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*	4
Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086)	6-8
General Microbiology (MCB 3020C) (MCB X010C) w/lab or any Microbiology course w/lab	4
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course	3
Human Nutrition with therapeutic nutrition focus	3

\*The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of "C" (2.0) or better is required in all prerequisite courses.

## Honors

Honors Option Requires:

- Completion of a three credit directed readings course
- Completion of a three credit thesis course
- Open to students with a minimum 3.5 GPA in Nursing
- Minimum cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

# UCF Degree Programs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

## Freshman Year

<b>Fall</b>	<b>16 hrs</b>	<b>Spring</b>	<b>14 hrs</b>
SYG 2000	3	CHM 1032/L	3/1
ENC 1101	3	ENC 1102	3
MAC 1105	3	STA 2014C or STA 2023	3
BSC 2010C	4	ZOO 3733C	4
PSY 2012	3		

## Sophomore Year

<b>Fall</b>	<b>16 hrs</b>	<b>Spring</b>	<b>13 hrs</b>
POS 2041 or ECO 2013 or ECO 2023	3	EUH 2001 or HUM 2230 or or AMH 2020 or WOH 2022	3
EUH 2000 or HUM 2210 or AMH 2010 or WOH 2012	3	MCB 2004C	4
PCB 3703C	4	*SPC 1600	3
SOW 3104 or DEP 2004	3	(One Course:)	3
HUN 3011	3	ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120	

## Junior Year

<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>16 hrs</b>
NUR 3825	2	NUR 3930 ST	3
NUR 3065	2	NUR 3930 ST	3
NUR 3065L	1	NUR 3930 ST	3
NUR 3930 ST	2	NUR3930L ST	2
NUR 3930L ST	3	NUR 3930 ST	3
NUR 3930 ST	3	NUR 3930L ST	2
NUR 3930L ST	2		

## Summer C/D

NUR 3165	3
NUR 3930 ST and/or	3
NUR 4837	3

## Senior Year

<b>Fall</b>	<b>14-17 hrs</b>	<b>Spring</b>	<b>13-16 hrs</b>
NUR 4932 ST	3	NUR 4932 ST	3
NUR 4932L ST	3	NUR 4932 ST	3
NUR 4932 ST	3	NUR 4932 ST	2
NUR 4932L ST	2	NUR 4932L ST	1
NUR 4837	3	NUR 4595	4
NUR 4932 ST (if not already taken)	3	NUR 4932 ST (if not already taken)	3

## NURSING (B.S.N.)

### B. RN TO BSN PROGRAM

(Completion program for individuals who are licensed RN's)

#### College of Health and Public Affairs

**HPA1 220, 407-823-2744**

<http://www.cohpa.ucf.edu/nursing/>

RN to BSN Coordinator: Linda Hennig

E-mail: [ucfnurse@mail.ucf.edu](mailto: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 Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - MAC 1105
  - 1. Select MAC 1105
  - 2. Select STA 2014C or STA 2023
- D. Social Foundations 6 hrs
  - Select SYG 2000 or PSY 2012
  - Select one: ECO 2013 or ECO 2023 or POS 2041
- E. Science Foundations: 6 hrs
  - Select BSC 2010C
  - Select CHM 1032

#### 2. Common Program Prerequisites

**21 hrs**

- PSY 2012 General Psychology\*\* GEP
- SYG 2000 Sociology\*\* 3 hrs
- MCB 2004C Health Microbiology 4 hrs
- CHM 1032/L General Chemistry and lab\*\* GEP
- ZOO 3733C Human Anatomy\* 4 hrs
- PCB 3703C Human Physiology 4 hrs
- STA 2014C or 2023 Principles of Statistics\*\* GEP
- SOW3104 Assessing Human Development 3 hrs
- or DEP 2004 Developmental Psychology
- HUN 3011 Human Nutrition 3 hrs

\*May take Anatomy and Physiology sequence of six-eight total credits.

\*\*Also meets General Education Requirements;

Applicants should see a UCF Nursing Advisor for possible course substitutions.

#### 3. Core Requirements

**(55 hrs)**

- NUR 3805 Transitional Concepts in Nursing I 3 hrs
- NUR 3065 Health Assessment 2 hrs
- NUR 3065L Health Assessment Lab 1 hr
- NUR 3165 Critical Inquiry 3 hrs
- NUR 4084 Transitional Concepts in Nursing II 3 hrs
- NUR 4636 Community as Continuum of Care 3 hrs
- NUR 4636L Clin Prac in Comm-Oriented Nursing 2 hrs
- NUR 4827 Leadership and Management Principles 3 hrs
- NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
- NUR 4812C Practicum & Role Development for RNs 4 hrs
- Validation Credit 28 hrs

#### 4. Upper Division Restricted Elective

**(3 hrs)**

- NUR XXXX Any Nursing Elective 3 hrs

#### 5. Departmental Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

#### 6. Electives

**none**

#### 7. Foreign Language Requirements

**(0-8 hrs)**

**Admissions:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** **none**

**8. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** **120 hrs**

**Related Programs:** Health Services Administration, Social Work, All health programs

**Related Minors:** Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

**Sample Plan of Study**

<b>Semester I</b>		<b>Semester II</b>	
NUR3805	3	NUR 3165	3
UR 3065	2	NUR 4827	3
NUR 3065L	1		
<b>Semester III</b>		<b>Semester V</b>	
NUR 4084	3	NUR 4837	3
NUR XXXX (elective)	3	NUR 4812C	4
<b>Semester IV</b>			
NUR 4636	3		
NUR 4636L	2		

\*Elective may be taken at any point.

**Progression requirements:**

Prior to NUR 3805: RN status or eligible to take NCLEX.  
 Prior to NUR 3165: Complete NUR 3805 and Statistics course with grade of "C" (2.0) or better.  
 Prior to NUR 4084 :

- Be admitted to the nursing program
- Complete general education requirements or A.A. from a Florida state community college or university (SUS)
- Complete CLAST(or exempt)
- Complete Foreign language admission requirement

**Other**

Selected courses may be offered and at regional campuses of Daytona and Cocoa.

The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica may be required. For further information access <http://www.cohpa.ucf.edu/nursing/>

**NURSING ACCELERATED**

**C. RN TO MSN OPTION**

**Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.**

**NURSING (B.S.N.)**

**D. AS TO BSN TRACK**

**Note: For detailed information about this program, see description in the AS to BS Program section.**

**ORGANIZATIONAL COMMUNICATION (B.A.)**

**See Interpersonal/Organizational Communication.**

**PHILOSOPHY (B.A.)**

**College of Arts and Humanities**

**Philosophy Department, CNH 411**

<http://www.cas.ucf.edu/philosophy>

**E-mail: [philosophy@ucf.edu](mailto:philosophy@ucf.edu)**

Don Jones or Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

**Admission Requirements**

**none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

**1. UCF General Education Program**

**(36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
  - Select HUM 2210 Humanistic Traditions I 3 hrs
  - Select HUM 2230 Humanistic Traditions II 3 hrs
  - Select PHI 2010 Intro to Philosophy 3 hrs
- C. Mathematical Foundations
  - Prefer MGF 1106 Finite Mathematics 3 hrs  
(may substitute a higher level math)
  - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

**2. Common Program Prerequisites**

**none**

**3. Core requirements\***

**(36 hrs)**

- a. Core (0 hrs)
  - HUM 2210 Humanistic Traditions I GEP
  - HUM 2230 Humanistic Traditions II GEP
  - PHI 2010 Intro to Philosophy GEP
  - PHI 3083 Research Methods (3 hrs)  
To be completed before the end of Junior year as a prerequisite to enrollment in Senior courses.
  - PHI 4938 Senior Research Seminar (3 hrs)
- b. 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 2101 Formal Logic I

**Ethics**

- PHI 3670 Ethical Theory

**Knowledge**

- PHI 3320 Philosophy of Mind
- PHI 4341 Ways of Knowing
- PHI 4300 Theories of Knowledge
- PHI 4500 Metaphysics

**Research Methods**

- PHI 3083 Research Methods in Philosophy

**c. Disciplinary and Interdisciplinary Knowing**

**(6 hrs)**

Select two courses:

- PHM 3401 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

**d. 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 Practicum
- PHI 4321 Philosophies of Embodiment: Mind/Body/Self
- PHI 4931 Philosophy in the News

# UCF Degree Programs

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

## b. Reasoning (6 hrs)

Take any two of the following courses:

PHI 2011	Philosophical Reasoning
PHI 2101	Critical Thinking
PHI 2108	Formal Logic I
PHI 2647	Logic and Ethics
PHI 3131	Formal Logic II

## c. History of Philosophy (9 hrs)

Take two of the following courses:

PHH 3100	Ancient Philosophy
PHH 3200	Medieval Philosophy
PHH 3460	Modern Western Philosophy

Take one of the following courses:

PHH 3600	Contemporary Philosophy
PHH 3510	Marx and Nietzsche
PHH 3700	American Philosophy
PHI 3930	African Philosophy

## d. Values and Society (6 hrs)

Take any two of the following courses:

PHI 3670	Ethical Theory
PHI 3626	Advanced Ethics in Science and Technology
PHI 3401	Philosophy of Law
PHI 3800	Aesthetics
PHM 3123	Feminist Theories
PHI 3638	Ethical Issues in the 21 <sup>st</sup> Century
PHI 3625	Virtual Ethics
PHI 4633	Ethics and Biological Science
PHM 3100	Freedom and Justice
PHI 3640	Environmental Ethics
PHM 4031	Environmental Philosophy
PHH 3701	Native American Philosophy
PHI 3805	Contemporary Aesthetics

## e. Being and Knowing (6 hrs)

Take any two of the following courses:

PHI 4500	Metaphysics
PHI 4341	Ways of Knowing
PHI 4300	Theories of Knowledge
PHI 3700	Philosophy of Religion
PHI 4400	Philosophy of Science
PHI 3320	Philosophy of Mind
PHI 3451	Philosophy of Psychology
PHI 4420	Philosophy of Social Science
PHI 3323	Minds and Machines
PHP 4782	Phenomenology
PHI 4221	Philosophy of Language

## f. Topics in Philosophy (3 hrs)

Take one of the following courses:

PHI 4931	Philosophy in the News
PHI 3683	Philosophy of Friendship
PHI 4321	Philosophies of Embodiment
PHI 3648	Ethical Issues of the Human Genome Project
PHI 3022	Sexuality, Gender and Philosophy
PHI 3033	Philosophy, Religion and the Environment
PHI 4804	Critical Theory
PHP 3783	Modernity as a Philosophical Problem
PHI 3750	Problem of Evil
PHI 3720	Faith and Reason
PHI 3803	Philosophy and Creativity
PHI 3941	Philosophy Practicum
REL 3111	Religion and Philosophy through Film
PHP 3786	Existentialism
HUM 4330	Performance Theory

\*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:

### Core Requirements (36 hrs)

Same requirements as for regular majors but must include PHI 2101 Formal Logic I

### Upper division Restricted Electives (6 hrs)

Choose two of the following:

PHH 3100	Ancient Philosophy
PHH 3200	Medieval Philosophy
PHH 3460	Modern Western Philosophy
PHH 3600	Contemporary Philosophy

Same requirements as for regular majors.

### Honors Thesis (6 hrs)

PHI 4903H	Honors Directed Reading	3 hrs
PHI 4970H	Honors Thesis	3 hrs

### Additional Requirements:

- Application and admission through the Philosophy Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both PHI 4903H and PHI 4970H
- Maintain UCF GPA of at least 3.2 and a Philosophy GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

## 6. Departmental Exit Requirements (3 hrs)

- Either PHI 4970H: Honors Thesis (3 hrs) or PHI 4938 Senior Research Seminar.
- Earn a "C" (2.0) or better in each required course.
- Computer Competency met by PHI 4970H, PHI 49514938, 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 Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

## 8. Electives (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 hrs

**Related Programs:** Humanities, Humanities - Philosophy, Religion, Pop Culture Track, Religious Studies

**Related Minors:** Cognitive Sciences, Environmental Studies, Humanities, Philosophy, Religious Studies, Women's Studies

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

## Freshman Year

<b>Fall</b>		<b>Spring</b>	
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210 Hum Tradition I	3	HUM 2230 Hum Tradition II	3
MGF 1106* req# 1C1-GEP	3	STA 1060C* req# 1C2-GEP	3
PHI 2010 Intro to Phil	3	PHI 2101* req# 3b-FoundReasoning	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

## Sophomore Year

<b>Fall</b>		<b>Spring</b>	
BSC 1005* req# 1E2-GEP	3	CHM 1020* req# 1E1-GEP	3
PSY 2012* req# 1D2-GEP	3	POS 2041* req# 1D1-GEP	3
SPC 1600* req# 1A3-GEP	3	PHH 3460* req# 3c-DiscHistory	3
PHI 2108 Reasoning	3	PHI 3670* req# 3d-ApplValues	3
PHI3100* req# 3c-History	3	Elective* Check restrictions	3

## Junior Year

<b>Fall</b>		<b>Spring</b>	
PHI 3083 Res Meth in Phil	3	PHI 4782* req# 3e-Being	3
PHH 3600* req# 3c-History	3	PHI3400 req# 3d Values	3
PHI 3320* req# 3e-Being	3	PHI 4321 req# 3f Topics	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## Senior Year

<b>Fall</b>		<b>Spring</b>	
PHP 3786* req# 4-ResEle	3	PHI 4938 Seminar	3
PHI 4804* req#4-ResEle	3	Elective* or PHI 4970H	3
Elective* or PHI 4903H	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## PHOTOGRAPHY (B.S.)

### College of Arts and Humanities

**E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)**

**Advisors:** Kevin Haran (UCF-Orlando), 407-823-2676; Steve Spencer (UCF-Daytona), 386-506-4093

The Photography B.S. program is a joint program between the University of Central Florida and Daytona Beach Community College.

**(This program is only offered at UCF at Daytona Beach)**

### Admission Requirements

Completion of an A.S. in Photographic Technology from Daytona Beach Community College or equivalent coursework.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with a Photography advisor before selecting this major, and at least annually thereafter.
- Upper-division electives, internship credit, and course substitutions must be approved by the program director.
- Students must earn at least a "C" in each required upper level 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:

<b>A. Communication Foundations</b>			
ENC 1101	Composition I		AS
ENC 1102	Composition II		3 hrs
SPC 2600*	Speech		AS
<b>B. Cultural and Historical Foundations</b>			
ARH 2051	History and Criticism of Art II		6 hrs
<b>C. Mathematical Foundations</b>			
MAC 1105	College Algebra or		
MGF 2106	College Mathematics or		
MGF 2107	Mathematics for Liberal Arts		AS
	Computer Science or Statistics		3 hrs
<b>D. Social Foundations</b>			
	Political Science or Economics		3 hrs

Psychology or Sociology	AS
E. Science Foundation	
Physical Science	3 hrs
Life Science	3 hrs

#### 2. Common Program Prerequisites (0 hrs)

(Included in A.S. or B.S. requirements.)

**Subject to change. Prerequisites have not been set by the state.**

ARH 2051	History and Criticism of Art II	AS
GRA 1741*	Principles of Design and Color	AS
GRA 1100*	Computer Graphics Fundamentals	AS
PGY 1403*	Fundamentals of Photography	AS
PGY 3610C	Photojournalism I	BS

#### 3. AS Required Courses: (49 hrs)

(Completed in the A.S. degree program in Photographic Technology, or equivalent coursework)

CGS 1570	Introduction to Computer Applications	1 hr
DIG 1109	Digital Imaging Fundamentals	3 hrs
GRA 1741	Principles of Design and Color	3 hrs
PGY 1115	Color Materials and Processes	7 hrs
PGY 1265	Advanced Processes and Techniques	4 hrs
PGY 1403	Fundamentals of Photography	4 hrs
PGY 1402	Photographic Materials and Processes	4 hrs
PGY 1806	Digital Imaging	4 hrs
PGY 2000	History and Aesthetics of Photography	3 hrs
PGY 2107	Large Format Photography	4 hrs
PGY 2215	Studio Lighting	4 hrs
PGY 2216	Location Photography	4 hrs
PGY 2655	Applied Photography	4 hrs

#### 4. Upper Division Required Courses (39 hrs)

PGY 3002	Contemporary Photography	3 hrs
ARH 3711	History of Photography II	3 hrs
PGY 4003	Image, Culture, and Society	3 hrs
CRW 3011	Creative Writing for Non-Majors	3 hrs
PGY 3821	Digital Imagery for Photography	3 hrs
PGY 3610C	Photojournalism I	3 hrs
PGY 3620C	Photojournalism II	3 hrs
PGY 4472	Photography Workshop/Project	3 hrs
PGY 4228	Advanced Illustrative Photography	3 hrs
PGY 4471	Photography Thesis	3 hrs
PGY 3324	The Professional Environment	3 hrs
PGY 3205	Photographic Lighting Techniques	3 hrs
PGY 3480	Photographic Exhibition and Display	3 hrs

#### 5. Upper Division Restricted Electives (3 hrs)

Select one of the following courses.

PGY 3451	Alternative Processes	3 hrs
PGY 3809	Photography and Web Design	3 hrs
PGY 3751	Videography	3 hrs

#### 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

#### 7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 42 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

## 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](mailto:higginbp@mail.ucf.edu)

#### Admission Requirements:

- Complete the University General Education requirements or its

# UCF Degree Programs

equivalent, ( i.e. an AA degree from an approved Florida community college or state university)

- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

## Degree Requirements:

- Due to recent changes in Florida teacher certification requirements for Physical Education, revisions to program requirements are expected. Students should check with a program advisor before registering for upper division (3/4XXX) courses.

### 1. UCF General Education Program (37 hrs)

- A. Communication Foundations (9 hrs)**
- |                 |                                    |       |
|-----------------|------------------------------------|-------|
| ENC 1101        | Composition I                      | 3 hrs |
| ENC 1102        | Composition II                     | 3 hrs |
| Select SPC 1600 | Fundamentals of Oral Communication | 3 hrs |
- B. Cultural-Historical Foundations (9 hrs)**
- |                 |                            |       |
|-----------------|----------------------------|-------|
| Select AMH 2010 | U.S. History 1492-1877     | 3 hrs |
| Select AMH 2020 | U.S. History 1877-Present  | 3 hrs |
| Select PHI 2010 | Introduction to Philosophy | 3 hrs |
- C. Mathematical Foundations (6 hrs)**
- |                 |   |       |
|-----------------|---|-------|
| Select MGF 1106 | Finite Mathematics                        | 3 hrs |
| Select one:     |   | 3 hrs |
| STA 1060C       | Basic Statistics using MS Excel <i>or</i> |       |
| STA 2014C       | Principles of Statistics                  |       |
- D. Social Foundations (6 hrs)**
- |                 |                              |       |
|-----------------|------------------------------|-------|
| Prefer POS 2041 | American National Government | 3 hrs |
| Select PSY 2012 | General Psychology           | 3 hrs |
- E. Science Foundations (7 hrs)**
- |                  |                  |       |
|------------------|------------------|-------|
| Select PSC 1121  | Physical Science | 3 hrs |
| Select BSC 2010C | Biology I        | 4 hrs |

### 2. Common Program Prerequisites (34 hrs)

- A. Communications (9 hrs)**
- |          |                                    |     |
|----------|------------------------------------|-----|
| ENC 1101 | Composition I                      | GEP |
| ENC 1102 | Composition II                     | GEP |
| SPC 1600 | Fundamentals of Oral Communication | GEP |
- B. Humanities (6 hrs)**
- |             |                                     |       |
|-------------|-------------------------------------|-------|
| PHI 2010    | Introduction to Philosophy          | GEP   |
| Select one: |                                     | 3 hrs |
| ARH 2050    | History of Western Art I <i>or</i>  |       |
| ARH 2051    | History of Western Art II <i>or</i> |       |
| MUL 2010    | Enjoyment of Music <i>or</i>        |       |
| THE 2000    | Theatre Survey <i>or</i>            |       |
| FIL 2400    | History of Motion Pictures          |       |
- C. Mathematics (9 hrs)**
- |                                |   |       |
|--------------------------------|---|-------|
| MAC 1105                       | College Algebra                           | 3 hrs |
| MGF 1106                       | Finite Mathematics                        | GEP   |
| One of the following (per GEP) |   | GEP   |
| STA 1060C                      | Basic Statistics using MS Excel <i>or</i> |       |
| STA 2014C                      | Principles of Statistics                  |       |
- D. Social Science/History (12 hrs)**
- |          |                              |     |
|----------|------------------------------|-----|
| AMH 2010 | U.S. History 1492-1877       | GEP |
| AMH 2020 | U.S. History 1877-Present    | GEP |
| POS 2041 | American National Government | GEP |
| PSY 2012 | General Psychology           | GEP |
- E. Science (9 hrs + lab)**
- |             |                              |       |
|-------------|------------------------------|-------|
| PSC 1121    | Physical Science             | GEP   |
| BSC 2010C   | Biology I                    | GEP   |
| Select one: |                              | 3 hrs |
| AST 2002    | Astronomy <i>or</i>          |       |
| GEO 1200    | Physical Geography <i>or</i> |       |
| 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**
- H. Other Program Prerequisites (4 hrs)**
- |             |                                      |       |
|-------------|--------------------------------------|-------|
| ZOO 3736C   | Human Anatomy with Lab               | 4 hrs |
| Select one: |                                      | 3 hrs |
| PEO 2011    | Team Sports <i>or</i>                |       |
| PEO 2031    | Indiv. Sports and Leisure Activities |       |
| PET 2622C   | Human Injuries                       | 3 hrs |
| PET 4550    | Fitness Assessment and Exercise      | 3 hrs |
| PET 4823C   | Teaching Sports Skills               | 3 hrs |

### 3. Education Core Requirements (12 hrs)

- |          |                                 |       |
|----------|---------------------------------|-------|
| EDG 4323 | Professional Teaching Practices | 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)

- |           |                                     |       |
|-----------|-------------------------------------|-------|
| ZOO 3736C | Human Anatomy with Lab              | CPP   |
| DAE 3370  | Dance & Rhythmics                   | 3 hrs |
| PEO 3041  | Games Analysis                      | 3 hrs |
| PET 2622C | Human Injuries                      | 3 hrs |
| PET 4050C | Motor Development & Learning        | 3 hrs |
| PET 4312  | Biomechanics                        | 3 hrs |
| PET 4351C | Applied Exercise & Human Physiology | 3 hrs |
| PET 4401  | Administration and Evaluation in PE | 3 hrs |
| PET 4550  | Fitness Assessment                  | 3 hrs |
| PET 4640  | Adapted PE                          | 3 hrs |
| PET 4823C | Teaching Sports Skills              | 3 hrs |

### 5. Internship I and Methods Block (6 hrs)

- |          |                                  |       |
|----------|----------------------------------|-------|
| PET 3940 | Internship I                     | 3 hrs |
| PET 4710 | Teaching Physical Education K-12 | 3 hrs |

- EDG 4323 must be completed with a minimum grade of "C-" prior to 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) (10 hrs)

- All methods/specialization courses must be completed with a letter grade of "C-" or better before registering for Internship II
- See additional requirements in College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with the State Board of Education Rule 6A-5.065

### 7. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 8. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

### 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 10. Total Semester Hours Required 120 hours

### 11. Coaching Endorsement (Optional) (6 hrs)

- |                                      |                               |       |
|--------------------------------------|-------------------------------|-------|
| PET 3765                             | Coaching Theory               | 3 hrs |
| Select one of the following courses: |                               | 3 hrs |
| PEO 2624                             | Coaching Basketball <i>or</i> |       |
| PEO 3324                             | Coaching Volleyball <i>or</i> |       |
| PEO 3644                             | Coaching Football             |       |

### 12. Recommended Sequence of Program Courses:

- |               |          |          |          |
|---------------|----------|----------|----------|
| Freshman Year |          |          |          |
| Fall          | (13 hrs) | Spring   | (15 hrs) |
| BSC 2010C     | 4 hrs    | EDG 2701 | 3 hrs    |

EDF 2005	3 hrs	ENC 1102	3 hrs
ENC 1101	3 hrs	MAC 1105	3 hrs
MGF 1106	3 hrs	PHI 2010	3 hrs
		PSC 1121	3 hrs
<b>Summer</b>	<b>(6 hrs)</b>		
EME 2040	3 hrs		
POS 2041	3 hrs		

<b>Sophomore Year</b>			
<b>Fall</b>	<b>(13hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
AMH 2010	3 hrs	AMH 2020	3 hrs
PSY 2012	3 hrs	PET 2622C	3 hrs
SPC 1600	3 hrs	PEO 2011 or	3 hrs
ZOO 3736C	4 hrs	PEO 2031	
		ARH 2050 or	3 hrs
		MUL 2010 or	
		THE 2000 or	
		FIL 2400	

<b>Summer</b>	<b>(6 hrs)</b>		
AST 2002	3 hrs		
STA 2014C	3 hrs		

<b>Junior Year</b>			
<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(12 or 15 hrs)</b>
DAE 3370	3 hrs	EDF 4214	3 hrs
EDG 4323	3 hrs	PET 4312	3 hrs
PEO 3041	3 hrs	PET 4043	3 hrs
PET 4823C	3 hrs	TSL 4080	3 hrs

<b>Summer</b>	<b>(6 hrs)</b>		
EDF 4640	3 hrs		
PET 4351C	3 hrs		

<b>Senior Year</b>			
<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(13 hrs)</b>
PET 3940	3 hrs	PET 4943	10 hrs
PET 4050	3 hrs	PET 4401	3 hrs
PET 4710	3 hrs		
PET 4550	3 hrs		

## PHYSICS (B.S.)

**College of Sciences, Physics Department**  
**MAP 310, 407-823-2325**

<http://www.physics.ucf.edu>

**E-mail: physics@ucf.edu**

*Chair:* Ralph Llewellyn, 407-823-2325

Physics majors can select from five distinct tracks to earn their physics degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding among these tracks.

### Admission Requirements none

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 + 2 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36.)

<b>A. Communication Foundations</b>		
1. Select ENC 1101 and ENC 1102		6 hrs
2. Prefer SPC 1016		3 hrs
<b>B. Cultural and Historical Foundations</b>		9 hrs
<b>C. Mathematical Foundations</b>		
1. Select MAC 2311		4 hrs

2. Prefer COP 3223	3 hrs
D. Social Foundations	6 hrs
<b>E. Science Foundations</b>	
1. Select PHY 2048 & L (PR:MAC 2311)	4 hrs
2. Select a listed course	3 hrs

### 2. Common Program Prerequisites ((20 hrs)

CHM 2045C*	Chem Fund I	4 hrs
CHM 2046 & L	Chem Fund II & Lab	4 hrs
MAC 2311	Calculus with Analy Geo I	GEP
MAC 2312	Calculus with Analy Geo II	4 hrs
MAC 2313	Calculus with Analy Geo 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 III	3 hrs
PHZ 3113	Intro to Theoretical Methods of Physics	3 hrs
PHY 3220	Mechanics	3 hrs
PHY 3513	Thermal and Statistical Physics	3 hrs
PHY 3323	Electricity and Magnetism I	3 hrs
PHY 4324	Electricity and Magnetism II	3 hrs
PHY 4604	Introduction to Quantum Mechanics I	3 hrs
PHY 4605	Introduction to Quantum Mechanics II	3 hrs
PHY 4912	Directed Independent Research (should be in the area of specialization)	3 hrs
Laboratory requirements		
PHY 3802L	Intermediate Physics Lab	3 hrs
Select one of the following		
PHY 3752C	Physics of Sci Instruments	3 hrs
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		
PHY, PHZ, or AST courses		6 hrs
Directed Electives		
Courses at a 3000 level or higher, approved by the Physics Department.		
Courses must be chosen in Physics, Mathematics, Chemistry, Computer Science, or Engineering.		

#### 4.2 Materials Physics Specialization (18 hrs)

Choose one lab from:		
PHY 4803L	Advanced Physics Lab	3 hrs
EEL 5355C	Fabrication of Solid State Devices	4 hrs
Choose nine hours from:		
EEL 3306	Semiconductor Devices	3 hrs
EGN 3365	Structure and Properties of Materials	3 hrs
EMA 4413	Electronic Properties of Materials	3 hrs
CHM 3411L	Physical Chemistry Laboratory	2 hrs
PHZ 5405	Condensed Matter Physics	3 hrs
EEL 5352	Semiconductor Mat & Device Char	3 hrs
Directed Electives		
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 4424	Physical Optics	3 hrs
Choose six hours from:		
EEL 4440	Optical Engineering	3 hrs
PHY 4445	Lasers	3 hrs
OSE 5203	Fundamentals of Applied Optics	3 hrs
OSE 5312	Fundamentals of Optical Science	3 hrs
OSE 5414	Fund. of Optoelectronic Devices	3 hrs
Directed Electives		
Courses at a 3000 level or higher, approved by the Physics Department.		
Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.		

#### 4.4 Computational Physics Specialization (19 hrs)

PHZ 3151	Computer Methods in Physics	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
COT 4500	Numerical Calculus	3 hrs
Directed Electives		
Courses at a 3000 level or higher, approved by the Physics Department.		
Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.		

#### 4.5 Astronomy Specialization (18 hrs)

AST 2002	Introduction to Astronomy	3 hrs
AST 3722C	Observational Astronomy	3 hrs
Choose two of the following:		

## UCF Degree Programs

AST 3110	Solar System Astronomy	3 hrs
AST 3211	Stellar Astrophysics	3 hrs
AST 3402	Galaxies and Cosmology	3 hrs
Directed Electives		6 hrs

Courses at a 3000 level or higher, approved by the Physics Department.  
Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

### 5. Departmental Exit Requirements

- Students must have at least a 2.0 GPA in all courses counted toward the major
- Students will be required to take a nationally normed test in Physics during their last semester
- Students will have an exit interview in their last semester with a representative of the Physics Undergraduate Committee
- Computer Competency met by COP 3223 or a departmental exam

### 6. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: **None**

### 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Semester Hours Required **120 hrs**

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

#### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Summer

Chem test See catalog	0
Math test See catalog	0

#### Freshman Year

Fall		Spring	
ANT 2000* req# 1D2-GEP	3	ENC 1102 Composition II	3
ENC 1101 Composition I	3	PHY 2048 Phy for Eng Sci I	3
MAC 2311 Calc Anal Geo I	4	PHY 2048L Phy L Eng Sci I	1
CHM 2045C Chemistry Fund I	4	CHM 2046 Chemistry Fund II	3
		CHM 2046L Chemistry Fund L	1
		MAC 2312 Calc Anal Geo II	4

#### Sophomore Year

Fall		Spring	
COP 3223 Intro to Prog C	3	MUL 2010* req# 1B2-GEP	3
HUM 2210* req# 1B1-GEP	3	MAP 2302 Dif Equations	3
SPC 1016 Fund Tech Presntn	3	PHY 3101 Phy Eng Sci III	3
MAC 2313 Calc Anal Geo III	4	PHY 3802L Int Physics L	3
PHY 2049 Phy for Eng Sci II	3	PHZ 3113 Intro Ther Meth of	3

PHY 2049L Phy L Eng Sci II 1

#### Junior Year

Fall		Spring	
ARH 2050* req# 1B3-GEP	3	POS 2041* req# 1D1-GEP	3
PHY 3220 Mechanics I	3	PHY 3752C* req# 3-Core	3
PHY 3323 Elect Mag I	3	PHY 4324 Elect Mag II	3
PHY 4604 Wave Mechanics I	3	PHY 4605 Wave Mechanics II	3
COP 3502C* req# 4-Spec	3	COP 3503C* req# 4-Spec	3

#### Senior Year

Fall		Spring	
PHY 3513 Thermal & Stat Phy	3	BSC 1005* req# 1E2-GEP	3
PHY 4912 Ind Research	3	PHY 4424* req# 4-Spec	3
COT 4500* req# 4-Spec	3	PHZ 3151* req# 4-Spec	3
PHY 3722C Physics L Elect	3	Physics test See catalog.	0
Elective* Check restrictions	3	Elective* Check restrictions	2
		Elective* Check restrictions	3
		Phys Test-National normed	3

## POLITICAL SCIENCE (B.A.)

College of Sciences, Political Science Department  
CNH 415, 407-823-2608

<http://www.cas.ucf.edu/politicalscience>

E-mail: [politics@ucf.edu](mailto:politics@ucf.edu)

Chair: 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	
1. Select ENC 1101 & ENC 1102	6 hrs
2. Prefer SPC 1600	3 hrs
B. Cultural and Historical Foundations	
1. Prefer AMH 2010	3 hrs
2. Select from GEP B.2 list	3 hrs
3. Prefer AMH 2020	3 hrs
C. Mathematical Foundations	6 hrs
1. Prefer MGF 1106 (may substitute a higher level math)	3 hrs
2. Prefer STA 2014C or STA 1060C	3 hrs
D. Social Foundations	
1. Select POS 2041	3 hrs
2. Select from GEP D.2 list	3 hrs
E. Science Foundations	6 hrs

#### 2. Common Program Prerequisites (3 hrs)

POS 2041*	American National Government	GEP
POS 3703*	Scope & Methods of Pol Sci	3 hrs

\*See Transfer Notes for possible substitutes

#### 3. Core (6 hrs)

POS 2041	American National Government	CPP
POS 3703	Scope & Methods of Pol Sci	CPP

#### 4. Upper Division Restricted Electives (30 hrs)

Choose one of the following emphases

##### Emphasis 1: American Politics and Policy

Five courses from area A	15 hrs
Two courses from area B	6 hrs
Two courses from area C	6 hrs
One additional course from any area	3 hrs

##### Emphasis 2: International Relations-Comparative Politics

Two courses from area A	6 hrs
*Five courses from area B	15 hrs
Two courses from area C	6 hrs
One additional course from any area	3 hrs
*No more than two of the following courses may be considered part of area B credit: INR 4401, INR 4402, INR 4404.	



## Emphasis 3: Prelaw

Please see Political Science - Prelaw for the emphasis requirements.

## Emphasis 4: International Studies

Please see Political Science - International Studies for the emphasis requirements.

## AREAS OF SPECIALIZATION

### A. American Politics and Policy

POS 3122	State Government & Public Policy
POS 3173	Southern Politics
POS 3182	Florida Politics
POS 3233	Public Opinion
POS 3235	Mass Media and Politics
POS 3258	Politics in Film
POS 3273	Voting and Elections
POS 3413	The American Presidency
POS 3424	Congress and the Legislative Process
POS 3443	Political Parties and Processes
POS 3463	Interest Groups
POS 3627	Cultural Pluralism and the Law
POS 4074	Latino Politics
POS 4142	Metropolitan Politics
POS 4204	Political Behavior
POS 4246	Political Socialization
POS 4284	Judicial Process and Politics
POS 4412	Presidential Campaigning
POS 4603	American Constitutional Law I
POS 4604	American Constitutional Law II
POS 4622	Politics and Civil Rights
PUP 4204	Sustainability
PUP 4209	Urban Environmental Policy
PUP 3203	Environmental Politics
PUP 3314	Minorities in American Politics
PUP 3325	Women and Political Behavior
PUP 4003	American Public Policy
PUP 4204	Sustainability
PUP 4323	Women and Public Policy
POS 4742	GIS for the Political Scientist
PUP 4404	Education and Politics
PUP 4503	Government and Science
PUP 4602	Politics of Health
PUP 4744	Government and Business
PUP 4931	Topics in Public Policy

### B. International Relations and Comparative Government

CPO 3034	Politics of Developing Areas
CPO 3103	Comparative Politics
CPO 3104	Politics of Western Europe
CPO 3122	Canadian Studies
CPO 3403	Politics of the Middle East
CPO 3614	Politics of Eastern Europe
CPO 4062	Comparative Judicial Processes
CPO 4074	Political Economy
CPO 4101	European Union Politics
CPO 4123	Government and Politics of Great Britain
CPO 4303	Comparative Latin American Politics
CPO 4445	Comparative Political Parties
CPO 4553	Politics of Japan
CPO 4643	Government and Politics of Russia
CPO 4710	Women in Comparative Perspective
CPO 4754	Comparative Political Institutions
CPO 4784	Political & Economic Inequality in Comparative Perspective
GEO 3471	World Political Geography
IDS 4315	Global Perspectives
INR 2002	International Relations
INR 3016	Global Political Issues
INR 3253	International Politics of Africa
INR 4011	Politics of Globalization
INR 4030	Diplomacy
INR 4035	International Political Economy
INR 4060	Causes of War
INR 4064	Changing Nature of War
INR 4074	Immigration Policy
INR 4075	Human Rights Policy
INR 4076	Global Drug Policy
INR 4085	Women, Gender, and Globalization
INR 4102	American Foreign Policy
INR 4104	Topics and Cases in American Foreign Policy
INR 4114	American Security Policy
INR 4115	Strategic Weapons and Arms Control
INR 4224	Contemporary International Politics of Asia
INR 4225	The Vietnam War
INR 4243	International Politics of Latin America
INR 4350	Global Environmental Politics
INR 4364	The Intelligence Community
INR 4304	Issues in International Public Policy

INR 4335	Coercion in International Politics
INR 4401	International Law I
INR 4402	International Law II
INR 4404	Space Law
INR 4502	International Organizations
INR 4714	Politics of International Trade
POS 3253	Contemporary Revolution & Political Violence
PUP 3508	Space Studies
INR 4351	International Environmental Law
PUP 4510	Space Policy

### C. Political Theory

INR 4603	International Relations Theory
POS 4206	Political Psychology
POT 3204	American Political Thought
POT 3302	Modern Political Ideologies
POT 4003	Political Theory
POT 4025	Ancient, Medieval and Early Modern Political Philosophy
POT 4054	Modern Political Philosophy
POT 4066	Contemporary Political Theory
POT 4109	Politics and Literature
POT 4305	The State, Society, and The Individual
POT 4314	Contemporary Democratic Theory
POT 4331	Utopia/Dystopia
POT 4414	Marxist Political Theory
POT 4632	Religion and Politics

### 5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

### 6. Foreign Language Requirements

**(0-8 hrs)**

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 7. Electives

**(variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### Internship Program: Political Science

For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required

**120 hrs**

**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.

# UCF Degree Programs

## Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

<b>Fall</b>	<b>Spring</b>		
AMH 2010 U S His 1492 1877	3	AMH 2020 U S His 1877 Pres	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	REL 2300* req# 1B3-GEP	3
POS 2041 Amer National Gvt	3	SPC 1600* req# 1A3-GEP	3
PSY 2012* req# 1D2-GEP	3	STA 2014C Prin of Statistics	3

### Sophomore Year

<b>Fall</b>	<b>Spring</b>		
BSC 1005* req# 1E2-GEP	3	PSC 1121* req# 1E1-GEP	3
POS 4284* req# 4A-ResElec	3	POS 3703 Meth of Pol Sci	3
CPO 3103* req# 4B-ResElec	3	Elective* Check restrictions	3
Elective* Check restrictions	3	SPN 1121* req# Lang/Elect	4
SPN 1120* req# Lang/Elect	4		

### Junior Year

<b>Fall</b>	<b>Spring</b>		
POS 3233* req# 4A-ResElec	3	POS 4604* req# 4A-ResElec	3
POS 3424* req# 4A-ResElec	3	Elective* Check restrictions	3
POS 4603* req# 4A-ResElec	3	Elective* Check restrictions	3
CPO 3034* req# 4B-ResElec	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

### Senior Year

<b>Fall</b>	<b>Spring</b>		
POT 3204* req# 4C-ResElec	3	POS 3173* req# 4 A,B,C	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	4	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## POLITICAL SCIENCE (B.A.) - INTERNATIONAL STUDIES TRACK

College of Sciences, Political Science Department  
CNH 415, 407-823-2608

<http://www.cas.ucf.edu/politicalscience>

E-mail: [politics@ucf.edu](mailto: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                  |       |
| 1. Prefer WOH 2012                                      | 3 hrs |
| 2. Select from GEP B.2 list                             | 3 hrs |
| 3. Prefer WOH 2022                                      | 3 hrs |
| C. Mathematical Foundations                             | 6 hrs |
| 1. Prefer MGF 1106 (may substitute a higher level math) | 3 hrs |
| 2. Prefer STA 2014C <i>or</i> STA 1060C                 | 3 hrs |
| D. Social Foundations                                   |       |
| 1. Select POS 2041                                      | 3 hrs |
| 2. Select from GEP D.2 list                             | 3 hrs |
| E. Science Foundations                                  | 6 hrs |

### 2. Common Program Prerequisites

(3 hrs)

INR 2002*	International Relations-Theory and Practice	3 hrs
POS 2041*	American National Government	GEP

\*See Transfer Notes for possible substitutes

### 3. Core Requirements

(18 hrs)

INR 2002	International Relations-Theory and Practice	CPP
POS 2041	American National Government	GEP
ECO 2013	Principles of Macroeconomics	3 hrs
GEO 3471	World Political Geography	3 hrs
IDS 4315	Global Perspectives	3 hrs
CPO 3103	Comparative Politics	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

CPO 3034	Politics of Developing Areas
CPO 3104	Politics of Western Europe
CPO 3403	Politics of the Middle East
CPO 3614	Politics of Eastern Europe
CPO 4062	Comparative Judicial Process
CPO 4074	Political Economy
CPO 4104	European Union Politics
CPO 4101	Politics of European Union
CPO 4123	Government and Politics of Great Britain
CPO 4303	Comparative Latin American Politics
CPO 4553	Politics of Japan
CPO 4643	Government and Politics of Russia
CPO 4710	Women in Comparative Politics
CPO 5334	Contemporary Politics of the Mayan Region
POS 3253	Contemporary Revolution and Political Violence

#### Functional

9 hrs

INR 3253	International Politics of Africa
INR 4030	Diplomacy
INR 4074	Immigration Policy
INR 4075	Human Rights Policy
INR 4076	Global Drug Policy
INR 4304	Issues in International Public Policy
INR 4364	The Intelligence Community
INR 4714	Politics of International Trade Policy
INR 4364	The Intelligence Community
INR 4603	International Relations Theory
INR 4035	International Political Economy
INR 4085	Women, Gender, and Globalization
INR 4102	American Foreign Policy
INR 4104	Topics in Amer Foreign Policy
INR 4114	American Security Policy
INR 4115	Strategic Weapons and Arms Control
INR 4224	Contemporary International Politics of Asia
INR 4243	International Politics of Latin America
INR 4304	Issues in International Public Policy
INR 4335	Coercion in International Politics
INR 4351	International Environmental Law
INR 4401	International Law I
INR 4402	International Law II
INR 4404	Space Law
INR 4502	International Organizations
INR 4941	Internship (a maximum of 3 hours)
PUP 4503	Government and Science
PUP 4503	Government & Science
PUP 4510	Space Policy

Other courses may be substituted with the chair's approval.

### 5. Required minor

(18 hrs min)

Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, or Spanish. **Note:** No more than one course may be used to fulfill both this track and the minor.

### 6. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

### 7. Foreign Language Requirements

(0-11 hrs)

**Admission:** Met by graduation requirement  
**Graduation:** Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 8. Electives

(variable)

Select primarily from upper level courses, with departmental advisors approval. May be outside of the department.

## 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** **120 hrs**

**Related Programs:** Economics, History

**Related Minors:** Economics, History, Psychology, Sociology, Philosophy

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- POS 2041\* and INR 2002\*: Although state mandated CPP accept any six hours of introductory Political Science classes, both POS 2041 and INR 2002 are required in the major.

## POLITICAL SCIENCE - PRELAW TRACK (B.A.)

**College of Sciences, Political Science Department**

**CNH 415, 407-823-2608**

**<http://www.cas.ucf.edu/politicalscience>**

**E-mail: [politics@ucf.edu](mailto:politics@ucf.edu)**

R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the Department's prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

**Admission Requirements** **none**  
**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program 36 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations           |       |
| Select ENC 1101, ENC 1102              | 6 hrs |
| Select SPC 1600                        | 3 hrs |
| B. Cultural and Historical Foundations |       |
| Prefer AMH 2010                        | 3 hrs |
| Prefer AMH 2020                        | 3 hrs |
| Select from GEP B.2 list               | 3 hrs |
| C. Mathematical Foundations            | 6 hrs |

- |  |       |
|--|-------|
| Select MGF 1106 (may substitute a higher level math) | 3 hrs |
| Prefer STA 2014C <i>or</i> STA 1060C                 | 3 hrs |
| D. Social Foundations                                |       |
| Select POS 2041 American National Gvt                | 3 hrs |
| Select one of the three choices                      | 3 hrs |
| E. Science Foundations                               | 6 hrs |

### 2. Common Program Prerequisites (3 hrs)

- |                                      |       |
|--------------------------------------|-------|
| POS 2041* American National Gvt      | GEP   |
| POS 3703* Scope & Methods of Pol Sci | 3 hrs |
- \*See Transfer Notes for possible substitutes

### 3. Core (0 hrs)

- |                                       |     |
|---------------------------------------|-----|
| POS 2041 American National Government | CPP |
| POS 3703 Scope & Methods of Pol Sci   | CPP |

### 4. Upper Division Restricted Electives (30 hrs)

- |  |        |
|--|--------|
| POS 4284 Judicial Process and Politics               | 3 hrs  |
| 4.1 Select one of the following:                     | 3 hrs  |
| POS 4603 American Constitutional Law I               |        |
| POS 4604 American Constitutional Law II              |        |
| INR 4401 International Law I                         |        |
| INR 4402 International Law II                        |        |
| 4.2 Select one (See listing under Political Science) |        |
| Five courses from area A <i>and</i>                  | 15 hrs |
| Two courses from area B                              | 6 hrs  |
| <i>or</i>  |        |
| Two courses from area A <i>and</i>                   | 6 hrs  |
| Five courses from area B                             | 15 hrs |
| 4.3 Select one course from area C                    | 3 hrs  |

### 5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

### 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Some suggested electives include:

- |   |                                       |
|---|---------------------------------------|
| ACG 2021 Principles of Financial Accounting     |                                       |
| ACG 2071 Principles of Managerial Accounting    |                                       |
| BUL 3320,3321 Business Law I & II               |                                       |
| PLA 3104 Legal Research                         |                                       |
| PLA 3155 Legal Writing                          |                                       |
| PHI 2101 Critical Thinking                      |                                       |
| 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.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** **120 hours**

**Related Programs:** Economics, History, Philosophy

**Related Minors:** Economics, History, English, Philosophy

**Transfer Notes:**

# UCF Degree Programs

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- POS 2041\* and POS 3703\*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

## Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

Fall		Spring		
AMH 2010 U S His 1492	1877	3	AMH 2020 U S His 1877 Pres	3
ENC 1101 Composition I		3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP		3	REL 2300* req# 1B3-GEP	3
POS 2041 Amer National Gvt		3	SPC 1600* req# 1A3-GEP	3
PSY 2012* req# 1D2-GEP		3	STA 2014C Prin of Statistics	3

### Sophomore Year

Fall		Spring		
BSC 1005* req# 1E2-GEP		3	PSC 1121* req# 1E1-GEP	3
POS 4284 Jud Process Pol		3	POS 3703 Meth of Pol Sci	3
CPO 3103* req# 4.2B-RE		3	POS 4604* req# 4.1-ResEle	3
Elective* Check restrictions		3	Elective* Check restrictions	3
SPN 1120* req# Lang/Elect		4	SPN 1121* req# Lang/Elect	4

### Junior Year

Fall		Spring		
POS 4603* req# 4.1-ResEle		3	POS 3173* req# 4.2A-RE	3
POS 3233* req# 4.2A-RE		3	Elective* Check restrictions	3
POS 3424* req# 4.2A-RE		3	Elective* Check restrictions	3
CPO 3034* req# 4.2B-RE		3	Elective* Check restrictions	3
Elective* Check restrictions		3	Elective* Check restrictions	3

### Senior Year

Fall		Spring		
POS 3122* req# 4.2A-RE		3	Elective* Check restrictions	3
POT 3204* req# 4.3C-RE		3	Elective* Check restrictions	3
Elective* Check restrictions		3	Elective* Check restrictions	3
Elective* Check restrictions		3	Elective* Check restrictions	4
Elective* Check restrictions		3		

## PSYCHOLOGY (B.A.)

College of Sciences, Psychology Department

PH 302B, 407-823-2216

<http://www.psych.ucf.edu/>

E-mail: [psychology@ucf.edu](mailto:psychology@ucf.edu)

R. Dipboye, 407-823-2216

Chair: R. Dipboye, 407-823-2216

Psychology Advising Center: PH 305G 407-823-2219

Students majoring in Psychology as the foundation of a Liberal Arts degree will probably find the BA option an appropriate degree. Not open to BS Psychology majors.

**Admission Requirements** none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a "C" (2.0) in each course counted toward the core requirements, restricted electives, and diversity courses
- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with the Department Director of Undergraduate Advising HPH 305g, prior to applying for graduation

(before registration for the final term).

- Graduating seniors should complete the senior exit survey
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### Honors in Psychology:

#### Additional Requirements

(6 hrs)

- The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology
- Application and admission through the department
- Fulfill University requirements for Honors in the Major
- Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a "B" (3.0)
- Have an overall UCF GPA above 3.2
- PSY 4903H Directed Honors Readings 3 hrs
- PSY 4970H Undergraduate Honors Thesis 3 hrs

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Prefer MGF 1106 (may substitute a more advanced math)	3 hrs
2. Select STA 2023 <i>or</i> STA 2014C	3 hrs
D. Social Foundations	
1. Select one of the listed choices	3 hrs
2. Select PSY 2012	3 hrs
E. Science Foundations	
1. Select BSC 1005 or BSC 2010C	3 hrs
2. Select one of the listed choices	3 hrs

\*See Transfer Notes for possible substitutions

### 2. Common Program Prerequisites

(3 hrs)

BSC 1005*	Biological Principles or BSC 2010C	GEP
PSY 2012*	General Psychology	GEP
DEP 2004*	Developmental Psychology	3 hrs
STA 2023*	Statistical Methods I <i>or</i> STA 2014C	GEP

\*See Transfer Notes for possible substitutes

### 3. Core requirements

(10 hrs)

PSB 3002	Physiological Psychology	3 hrs
PSY 3213C	Research Methods	4 hrs
BSC 1005 or BSC 2010C	Biology	GEP
PSY 2012	General Psychology	GEP
STA 2023	Statistical Methods or STA 2014C	GEP
Select one course		3 hrs
EXP 3404	Basic Learning Processes	
EXP 3204C	Perception	
EXP 3604C	Cognitive Psychology	
PSB 3441	Psychobiological Aspects of Drugs	
PSB 4422	Brainwaves and Behavior	
PSB 4240C	Neuropsychology	
PSY 3302	Psychological Measurement	

### 4. Restricted Electives

(12 hrs)

Select two of the following

DEP 2004	Developmental Psychology
PPE 3003	Personality Theory
SOP 3004	Social Psychology

Select six additional upper division hours in Psychology

6 hrs

### 5. Diversity courses

(9 hrs)

Take three diversity courses: one from A, one from B, and one from either A or B

#### A. Psychology Diversity courses

CLP 3184	Women's Mental Health
DEP 3464	Psychology of Aging
SOP 3723	Cross Cultural Psychology
SOP 3724	Psychology of Racial Prejudice
SOP 3742	Psychology of Women
SOP 2772	Sexual Behavior
SOP 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, AMH 3423, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586; AML 3283, AML 3614, AML 3615, AML 3682, AML 3640, AML 4261; ANT 3241, ANT 3245, ANT 3302, ANT 3311, ANT 3313, ANT 3332, ANT 3363, ANT 3541, ANT 3640; ARH 3520; ASH 4304, ASH 4404, ASH 4442; CCJ 4463, CCJ 4670; CJE 4174; CLA 3851; COM 4014, COM 4461; CPO 3403; EUH 4576; FIL 3309; GEO 3471; GEY 3001; HSC 4564; HUM 3320, HUM 3401, HUM 3419; JST 3401, JST 3402; LAH 3130, LAH 3200, LAH 3400, LAH 5713; LIN 4643; LIT 3383, LIT 3192; MMC 4300; NUR 3805, NUR 3616; PAD 4446; PHI 3022, PHI 3033; PHM 3123; PLA 4020, PLA 4830; POS 4246, POS 4622; PUP 3314, PUP

4323; REL 3162; SOW 3620; SPA 4612, SPA 4613; SPW 4772; SYD 3700, SYD 3750, SYD 3751, SYD 3800; SYP 4323, SYP 4730, SYP 4734, SYD 4810, SYD 4813; THE 3230; WST 3015.

## 6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each psychology course used for major
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3213C

## 7. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** **120 hrs**

**Related Programs:** Sociology, Anthropology, Statistics, Criminal Justice

**Related Minors:** Psychology, Sociology, Anthropology, Math, Statistics

**Certificates:** Aging Studies, Behavioral Forensics

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- BSC 1005\*: any lower level BSC course or ZOO X010.
- Although CPP permit any psychology course, PSY 2012\* is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- Although CPP permit any statistics course, STA 2023\* or STA 2014C is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004\*: any lower level psychology course.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

Fall		Spring	
BSC 1005 Bio Principles	3	ENC 1102 Composition II	3
ENC 1101 Composition I	3	PSC 1121* req# 1E1-GEP	3
MGF 1106* req# 1C1-GEP	3	REL 2300* req# 1B2-GEP	3
POS 2041* req# 1D1-GEP	3	SPC 1016* req# 1A3-GEP	3
PSY 2012 General Psychology	3	DEP 2004* Dev Psychology	3

### Sophomore Year

Fall		Spring	
AMH 2010* req# 1B1-GEP	3	PSY 3213C Res Meth in Psych	4
MUL 2010* req# 1B3-GEP	3	PPE 3003* req# 4-ResEl	3
STA 2023* Stat Methods I	3	SYD 3800* req# 5B-Diver	3
SOP 2772* req# 5A-Diver	3	SPN 1121* req# Lang/Elect	4

SPN 1120\* req# Lang/Elect 4

### Junior Year

Fall		Spring	
Elective* Check restrictions	3	PSB 3002 Phys Psychology	3
Elective* Check restrictions	3	ANT 3302* req# 5B-Diver	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

### Senior Year

Fall		Spring	
CLP 3143* req# 4-ResElect	3	CLP 3302* req# 4-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## PSYCHOLOGY (B.S.)

**College of Sciences, Psychology Department**

**PH 302B, 407-823-2216**

**<http://www.psych.ucf.edu/>**

**E-mail: [psychology@ucf.edu](mailto:psychology@ucf.edu)**

R. Dipboye, 407-823-2216

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 course counted toward the core requirements, restricted electives, and diversity courses
- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with the Department Director of Undergraduate Advising HPH 305g, prior to applying for graduation (before registration for the final term).
- Graduating seniors should complete the senior exit survey
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### Honors in Psychology:

#### Additional Requirements (6 hrs)

- The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology
- Application and admission through the department
- Fulfill University requirements for Honors in the Major
- Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a "B" (3.0)
- Have an overall UCF GPA above 3.2
- PSY 4903H Directed Honors Readings 3 hrs
- PSY 4970H Undergraduate Honors Thesis 3 hrs

### 1. UCF General Education Program

**(36 + 1 hrs)**

(Note: Certain courses must be selected in the GEP for this major bringing the total GEP hours to more than 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Prefer MGF 1106 (may substitute a more advanced math)	3 hrs
2. Select STA 2023 <i>or</i> STA 2014C	3 hrs
D. Social Foundations	
1. Select one of the listed choices	3 hrs
2. Select PSY 2012	3 hrs
E. Science Foundations	
1. Select BSC 2010C ( <i>or</i> BSC 1005 if no additional Biology courses are planned)	4 hrs
2. Select one of the listed choices	3 hrs

\*See Transfer Notes for possible substitutions

# UCF Degree Programs

## 2. Common Program Prerequisites

BSC 2010C*	Biology I or	(3 hrs)
BSC 1005	(If no additional Biology courses are planned)	GEP
PSY 2012*	General Psychology	GEP
DEP 2004*	Developmental Psychology	3 hrs
STA 2023*	Statistical Methods I or STA 2014C	GEP

\*See Transfer Notes for possible substitutes

## 3. Core requirements

BSC 2010C	Biology I (or BSC 1005)	(14 hrs)
PSB 3002	Physiological Psychology	GEP
PSY 2012	General Psychology	3 hrs
PSY 3213C	Research Methods in Psych	GEP
PSY 4215C	Advanced Research Methods	4 hrs
STA 2023	Statistical Methods or STA 2014C	4 hrs
		GEP
Select one course		3 hrs
EXP 3404	Basic Learning Processes	
EXP 3204C	Perception	
EXP 3604C	Cognitive Psychology	
PSB 3441	Psychobiological Aspects of Drugs	
PSB 4422	Brainwaves and Behavior	
PSB 4240C	Neuropsychology	
PSY 3302	Psychological Measurement	

## 4. Restricted Electives

A. Select two of the following:		(12 hrs)
DEP 2004	Developmental Psychology	6 hrs
PPE 3003	Personality Theory	
SOP 3004	Social Psychology	
B. Psychology electives: select six additional upper division hours in psychology		6 hrs

## 5. Diversity courses

Take two diversity courses - one from A & one from B		(6 hrs)
A. Psychology Diversity courses		3 hrs
CLP 3184	Women's Mental Health	
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: AMH 3421, AMH 3423, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586; AML 3283, AML 3614, AML 3615, AML 3682, AML 3684, AML 4261; ANT 3241, ANT 3245, ANT 3302, ANT 3311, ANT 3313, ANT 3332, ANT 3363, ANT 3541, ANT 3640; ARH 3520; ASH 4304, ASH 4404, ASH 4442; CCJ 4463, CCJ 4670; CJE 4174; CLA 3851; COM 4014, COM 4461; CPO 3403; EUH 4576; FIL 3309; GEO 3471; GEY 3001; HSC 4564; HUM 3320, HUM 3401, HUM 3419; JST 3401, JST 3402; LAH 3130, LAH 3200, LAH 3400, LAH 5713; LIN 4643; LIT 3383, LIT 3192; MMC 4300; NUR 3805, NUR 3616; PAD 4446; PHI 3022, PHI 3033; PHM 3123; PLA 4020, PLA 4830; POS 4246, POS 4622; PUP 3314, PUP 4323; REL 3162; SOW 3620; SPA 4612, SPA 4613; SPW 4772; SYD 3700, SYD 3750, SYD 3751, SYD 3800; SYP 4323, SYP 4730, SYP 4734, SYD 4810, SYD 4813; THE 3230; WST 3015.		

## 6. Science Electives

A. Select at least six credits outside Psychology from: (See course listing for prerequisites)		(12 hrs)
CGS 2100CC	Computer Fundamentals of Business	6-8 hrs
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 3604C	Cognitive Psychology	
EXP 4507C	Advanced Human Memory and Cognition	
PSB 3441	Psychobiological Aspects of Drugs	
PSB 4422	Brainwaves and Behavior	
PSB 4240C	Neuropsychology	
PSY 3302	Psychological Measurement	
PSY 3320C	Survey Methods in Psychology	

PSY 4213L	Advanced Research Methods Statistical Lab
PSY 4305C	Psychological Measurement Lab

## 7. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each psychology course
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3213C

## 8. Foreign Language Requirements

(0-8 hrs)

**Admission:** Met by graduation requirement.

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 9. Electives

(variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable).

## Total Semester Hours Required

120 hrs

**Related Programs:** Sociology, Anthropology, Statistics, Criminal Justice

**Related Minors:** Psychology, Sociology, Anthropology, Math, Statistics

## Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- BSC 2010C: any lower level BSC course or ZOO X010. However, BSC 2010C is a prerequisite for all subsequent Biology courses and thus may need to be taken in order to qualify for other Biology courses used as science electives for the BS degree in psychology.
- Although CPP permit any psychology course, PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- Although CPP permit any psychology course STA 2023 or STA 2014C is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004: any lower level psychology course.

## Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

Fall		Spring	
ARH 2050* req# 1B3-GEP	3	BSC 2010C Biology I	4
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	POS 2041* req# 1D1-GEP	3
PSC 1121* req# 1E1-GEP	3	SPC 1016* req# 1A3-GEP	3
PSY 2012 General Psychology	3	STA 2014C* Prin of Statistics	3

### Sophomore Year

Fall		Spring	
EUH 2000* req# 1B1-GEP	3	EUH 2001* req# 1B2-GEP	3
DEP 2004* Dev Psychology	3	PPE 3003* Personality Theory	3
Elective* Check restrictions	3	PSY 3213C Res Meth in Psych	4
SOP 3004* Social Psychology	3	SPN 1121* req# Lang/Elect	4

SPN 1120* req# Lang/Elect	4		
<b>Junior Year</b>			
<b>Fall</b>			
PSB 3002 Phys Psychology	3	<b>Spring</b>	
SOP 3724* req# 5A-Diver	3	PSY 4215C Adv Res Meth Psych	4
SYD 3700* req# 5B-Diver	3	CLP 3143* req# 4-ResElect	3
Elective* Check restrictions	3	PCB 3703C* req# 6A-Sci	4
Elective* Check restrictions	3	PSB 3441* req# 6B-Sci	3
Elective* Check restrictions	3		
<b>Senior Year</b>			
<b>Fall</b>			
EXP 3204C* req# 6B-Sci	4	<b>Spring</b>	
Elective* Check restrictions	4	CLP 3302* req# 4-ResElect	3
Elective* Check restrictions	4	ZOO 3733C* req# 6A-Sci	4
Elective* Check restrictions	4	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
		Elective* Check restrictions	2

**PUBLIC ADMINISTRATION (B.A., B.S.)**

**College of Health and Public Affairs**

**HPA2 238, 407-823-2604**

<http://www.cohpa.ucf.edu/pubadm/>

Chair: Dr. Mary Ann Feldheim

Undergraduate Coordinator: Mr. Robert Morin

Admission Requirements none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor on a regular basis.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College and should usually be completed in the first 60 hours.
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below).
- 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
  - 1. MAC 1105 or MGF 1106
  - 2. Select CGS 1060C
- D. Social Foundations (nine hours required for major) 6 hrs
  - 1. Select POS 2041
  - 2. PSY 2012, SYG 2000 or ANT 2000
- E. Science Foundations 6 hrs

**2. Common Program Prerequisites (3 hrs)**

- CGS 1060C Intro to Computer Science GEP
- POS 2041 American National Government GEP
- ECO 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 prefixed electives;
- Those who complete a recognized UCF **minor** in a discipline outside Public Administration must take a minimum of 18 hrs PAD prefixed electives;

- All other PAD majors must complete at least 21 hrs of PAD prefixed electives at the 3000 level or higher within the restricted elective area;
- Additional electives can be taken from other allied supporting fields such as accounting, legal studies, communications, computer science, criminal justice, economics, political science, social work, sociology and statistics. Courses should be selected with the assistance of an advisor, and must be upper division (3000-4000 level).

**5. Departmental Exit Requirements**

The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3 and 4).

**6. B.A./B.S. Option (6 hrs)**

- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level.
- Students pursuing the B.S. degree must complete two additional upper level technical courses (six credit hours) from a list approved by the Department.

**7. Foreign Language Requirements (0-8 hrs)**

**Admissions:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level, beyond University requirement.

**8. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required 120 hrs**

**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	3
Economics I (ECO 2013) or any Macroeconomics course	3
American National Government (POS 2041) or any course in American National Government	3

**Tentative Course Schedule for Entering Freshmen**

<b>Freshman Year*</b>			
<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
ENC 1101	3	ENC 1102	3
CGS 1060C	3	MGF 1106	3
POS 2041	3	PSY 2012 or SYG 2000 or ANT 2000	3
One Course: ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120	3	CHM 1020 or PSC 1121 or AST 2002	3
PAF 2102	2	Elective	3

<b>Sophomore Year</b>			
<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
SPC 1600	3	PAD 3003	3
EUH 2000 or HUM 2210 or AMH 2010 or WOH 2012	3	EUH 2001 or WOH 2022 or HUM 2230 or	3
ECO 2013	3	AMH 2020	
BSC 1005 or MCB 1310 or GLY 1030 or GEO 1200 or ANT 2511	3	Elective	3
Elective	3	Elective	3
		Elective	3

Junior Year

## UCF Degree Programs

Fall	15/16 hrs	Spring	15/16 hrs
PAD 4104	3	PAD 4034	3
PAD 4414	3	PAD 4204	3
PAD Elective	3	PAD 4720	3
Restricted Elective	3	PAD Elective	3
(Foreign Lang I) <i>or</i> B.S. option	3/4	(Foreign Lang II) <i>or</i> B.S. option	3/4

### Senior Year

Fall	15 hrs	Spring	12/15 hrs
PAD Elective	3	PAD Internship	3/6
PAD Elective	3	PAD Elective	3
Restricted Elective	3	Restricted Elective	3
Restricted Elective	3	Elective	3
Restricted Elective	3		

### Minors

The six PAD required core courses for the major will be required of the PAD minor. These are PAD 3003, PAD 4414, PAD 4104, PAD 4204, PAD 4034, and PAD 4720.

The Department of Public Administration offers minors in Emergency Management and Homeland Security, Urban and Regional Planning, Public Administration, and American Humanics, and also offers a certificate in Nonprofit Management.

## RADIO-TELEVISION (B.A.)

### College of Sciences

### Nicholson School of Communication

**COM 238, 407-823-2681**

<http://www.cas.ucf.edu/communication>

**E-mail: radiotv@ucf.edu**

Contact: M.A. Shaver

### Admission Requirements - Limited Access

- Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are:
  - October 1 to be admitted the next Spring term
  - February 1 to be admitted the next Summer term
  - July 1 to be admitted the next Fall term
- Attain an overall minimum 2.25/4.00 GPA based on a minimum of 30 credit hours of college work. **Note:** meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies each term with the quality of applicants, and during previous years, ranged from a minimum of 2.9.
- Meet a grammar proficiency standard
- 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 with advisor's approval
- Internship credit may be used in this major pending departmental permission
- Co-op credit may be used in this major pending approval from an RTV advisor
- Students should consult with a School advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Science).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication
- Radio TV majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.
- Students seeking to change tracks once accepted into the major, must re-apply to the RTV major under the new, desired track
- All students are required to pay a fee for equipment insurance
- A maximum of 3 credit hours of internship may be earned in one semester. Internship credit, plus all other hours taken within the

school, must not exceed 40 hours.

- A maximum of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internships are available during "C" term only.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	
Select ENC 1101 & ENC 1102	6 hrs
Select SPC 1600 or SPC 1016	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Prefer MGF 1106 (may substitute a higher level math)	3 hrs
Select CGS 2100CC	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

### 2. Common Program Prerequisites (0 hrs)

Select one course	GEF
SPC 1016	Fund of Technical Presentations
SPC 1600	Fund Oral Communication

### 3. Core requirements (all areas) (21 hrs)

a. Select one of the following:	3 hrs
CGS 2100CC	Computer Fundamentals of Business
CGS 2585C	Desktop/Internet Publishing
CGS 3175	Internet Applications
b. Complete all the following	
RTV 2102	Writing for the Electronic Media
RTV 3200	Production Fund & Aesthetics of Electronic Media
RTV 3000	Development and Structure of Elect Media and New Technology
MMC 4200	Mass Communication Law
RTV 4403	Elec Media, Tech, and Society
MMC 3420	Mass Media Research Meth

### 4. Specialization: Select one area

#### 4.1 Production (18 hrs)

(Select 18 hours from the following)	
RTV 3210C	Audio Production I
RTV 3228C	Studio Television Production
RTV 3223C	Lighting for Video
RTV 3260C	Single Camera Video Prodn & Edit
RTV 3263C	Advanced Video Post-Production
RTV 3283C	Production of Int. Multimedia
RTV 3942L	Practicum
RTV 4211C	Audio Production II
RTV 4280C	Webcasting I
RTV 4281C	Webcasting II
RTV 4206C	Television Directing
RTV 4270C	Radio Production & Programming
RTV 4941	Internship

#### 4.2 Broadcast Journalism (19 hrs)

RTV 3260C	Single Camera Video Prodn & Edit
RTV 3301	Electronic Journalism I
RTV 3304	Electronic Journalism II
RTV 4320C	Television News
MMC 4602	Contemporary Media Issues
JOU 3004	History of American Journalism

#### 4.3 Broadcast Generalist (18 hrs)

a. Select 12 hours from Group a:	
RTV 3231C	Broadcast Announcing & Performance
RTV 4270C	Radio Production & Programming
RTV 4700	Regulation of Broadcasting
RTV 4800	Broadcast Management
ADV 4103	Radio-TV Advertising
CMC 4240	Corporate/Institutional Video
COM 3330	Computer-Mediated Comm.
MMC 4263	New Media Technologies
b. Select 6 hours from Group b:	
ADV 3000	Principles of Advertising
PUR 4000	Public Relations
COM 3110	Business & Prof. Comm.
ENC 2210	Writing for Business Professionals

### 5. Required Minor (18 hrs minimum)

Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.



## 6. School Exit Requirements

- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Achieve an overall "C" GPA (2.0) in UCF Radio/TV courses used to satisfy the major.
- Computer competency met by CGS 2100C or departmental assessment.

## 7. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 8. Electives (variable)

Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

## 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required 120 hrs**

**Related Programs:** Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre

**Related Minors:** Digital Media, Film, Marketing, Theatre

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

## RADIOLOGIC SCIENCES (B.S.)

**College of Health and Public Affairs**

**HPA2 210, 407-823-2747**

<http://www.cohpa.ucf.edu/health.pro/radbs.cfm>

*Undergraduate Program Director:* Thomas Edwards

E-mail: tedwards@mail.ucf.edu

### Admission Requirements 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 submitted on or before April 1st of the year admission is sought. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program. All applicants must have a minimum overall GPA of 2.5,

and complete all program prerequisite courses with at least a grade of "C."

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF Residency Requirement for Radiography: 33 hours

### 1. UCF General Education Program (36 + 2 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105*	
Select CGS 1060C	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
Select BSC 2010C*	
Select PHY 2053C*	

### 2. Common Program Prerequisites (12 hrs)

CGS 1060C	Introduction to Computer Science	GEP
PCB 3703C*	Human Physiology	4 hrs
PHY 2053C*	College Physics I	GEP
PHY 2054C	College Physics II	4 hrs
ZOO 3733C*	Human Anatomy	4 hrs
MAC 1105*	College Algebra	GEP

\* See Transfer Notes

### 3. Core Requirements (77 hrs)

<i>Junior Level</i>		
RTE 3000	Introduction to Radiologic Sciences	3 hrs
RTE 3111C	Introduction to Patient Care	2 hrs
RTE 3503C	Radiographic Procedures I	3 hrs
RTE 3116	Advanced Patient Care	3 hrs
RTE 3418C	Principles of Radiographic Exposure I	3 hrs
RTE 3930	ST: Clinical Education I	2 hrs
RTE 3513C	Radiographic Procedures II	3 hrs
RTE 3457C	Principles of Radiographic Exposure II	3 hrs
RTE 3684C	Physics of Image Production	2 hrs
RTE 3308	Medical Physics	3 hrs
STA 2023	Statistical Methods I	3 hrs
HSC 4550	Pathophysiologic Mechanisms	3 hrs
RTE 3930	ST: Clinical Education II	4 hrs

<i>Senior Level</i>		
RTE 4563	Special Radiographic Procedures	2 hrs
RTE 4782	Pathophysiology	2 hrs
RTE 4932	ST: Clinical Education III	5 hrs
RTE 4573	Advanced Imaging Modalities	3 hrs
RTE 4XXX	Computed Tomography Protocols or	1 hr
RTE 4XXX	Mag Resonance Imaging Protocols	1 hr
RTE 4932	ST: Clinical Education IV	6 hrs
RTE 4385	Radiobiology	1 hr
RTE 4932	ST: Clinical Education V - A	2 hrs
RTE 4932	ST: Clinical Education V - B	4 hrs
RTE 4473	Quality Improvement	3 hrs
RTE 4762	Anatomy for the Medical Imager	3 hrs
RTE 4206	Leadership in Radiologic Sciences	3 hrs
RTE 4932	ST: Advanced Clinical Practicum	4 hrs

### 5. Program Exit Requirements (127 hrs)

A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

# UCF Degree Programs

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (126 hrs)

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration

Related Minors: Health Services Administration

Transfer Notes:

Prerequisite Requirements

The prerequisite requirements for the following courses are listed below:

PHY 2053C: PR: MAC 1105 and MAC 1114 or equivalent or C.I.

PCB 3703C: PR: BSC 2010C, CHM 1032 or CHM 2045C.

ZOO 3733C: PR: BSC 2010C or equivalent.

Credit by Examination

Credit by Exam for clinical education courses will be awarded to ARRT certified 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 CGS X530, CGSX570, CIS X400, CIS X000, CGS X000, CGS X061, CGS X361(no longer offered), CGS X100	3

Tentative Course Schedule for Entering Freshmen

RADIOLOGIC SCIENCES

Freshman Year\*

Fall	13 hrs	Spring	16 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C	3	BSC 2010C	4
MAC 1105	3	MAC 1114	3
CHM 1032	4	ECO 2013 <i>or</i> POS 2041 <i>or</i> ECO 2023	3
		MUL 2010 <i>or</i> THE 2000 <i>or</i> REL 2300 <i>or</i> PHI 2010 <i>or</i> ARH 2050 <i>or</i> FIL 2400	3

Sophomore Year

Fall	14 hrs	Spring	14 hrs
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1600	3
EUH 2000 <i>or</i> HUM 2210	3	PHY 2054C	4
<i>or</i> AMH 2010		EU2001 <i>or</i>	3
PSY 2012 <i>or</i> SYG 2000 <i>or</i> ANT 2000	3	HUM 2230 <i>or</i> AMH 2020	

Junior Year	15 hrs	Spring	16 hrs
Fall			
RTE 3000	3	RTE 3457C	3
RTE 3111C	2	RTE 3930	4
RTE 3418C	3	RTE 3513C	3
RTE 3503C	3	HSC 4550	3
RTE 3684C	2	RTE 3116	3
RTE 3930	2		

Summer	13 hrs
STA 2023	3
RTE 4932	5
RTE 3308	3
RTE 4563	2

Senior Year	14 hrs	Spring	14/12 hrs
Fall			
RTE 4385	1	RTE 4932	2
RTE 4762	3	<b>and</b> RTE 4932**	4
RTE 4824L	6	RTE 4782	2
RTE 4573	3	RTE 4473	3
RTE XXXX	1	RTE 4206	3

Summer	4/6 hrs
RTE 4932	4**
<i>or</i>	
RTE 4932	2
<i>and</i> RTE 4932	4**

\*\*Completed during the Spring or Summer semester/term.

## RADIOLOGIC SCIENCES (B.S.)

AS to BS TRACK

Note: For detailed information about this program, see description in the Articulated AS to BS Program section.

## REAL ESTATE (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu/Realestate>

Admissions Requirements

- Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

A. Communications Foundations	9 hrs
Prefer SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105	3 hrs
Select CGS 2100CC	3 hrs
D. Social Foundations	
Select ECO 2013 <i>or</i> ECO 2023	3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (18 hrs)

Must be completed with a "C" (2.0) or better.	
ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100CC	Computer Fundamentals for Business
*At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.	

3. Required for All Business Majors (30 hrs)

First or subsequent semester in the College of Business Administration:	
GEB 3031	Cornerstone (Required in 1st or 2nd semester)
GEB 3356	Introduction to International Business
BUL 3130	Legal & Ethical Environments of Business
ECO 3411	Quantitative Business Tools II
FIN 3403	Business Finance
MAN 3025	Management of Organizations

ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	
<b>Last Semester:</b>		
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 Real Estate must apply for admission to the major.
- Final exams will be given during exam week.
- Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- A maximum of 6 hours of required or elective coursework can count toward another major or minor degree program.
- Students majoring in finance must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. FIN 3403 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

#### 5. Required Courses (9 hrs)

FIN 2104	Personal Finance and Investments	3 hrs
REE 3042	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs

#### 6. Restricted Electives (18 hrs)

Select six of the following:\*

REE 3XXX	Environmental Law	3 hrs
REE 4103	Real Estate Appraisal and Valuation	3 hrs
REE 4202	Residential Real Estate Finance	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs
REE 4732	Real Estate Development	3 hrs
REE 4XXX	Commercial Real Estate Finance	3 hrs
MAR 3391	Professional Selling	3 hrs
FIN 4941	Internship	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
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives\*\*\* (variable)

#### Total Semester Hours Required 120 hours

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 - REAL ESTATE

<b>Freshman</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100CC*	3
Must complete nine hours in a summer semester			

<b>Sophomore</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	FIN 2104	3
***Elective	3	ECO 3401*	3

<b>Junior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
**GEB 3031	6	GEB 3356	3
REE 3043	3	MAR 3023	3
REE 3433	3	ECO 3411	3
FIN 3403	3	REE Elective	3
		REE Elective	3

<b>Senior</b>			
<b>1st Term</b>	<b>15 hrs</b>	<b>2nd Term</b>	<b>15 hrs</b>
MAN 3025	3	MAN 4720	3
ISM 3011	3	***Elective	3
BUL 3130	3	***Elective	3
REE Elective	3	REE Elective	3
REE Elective	3	REE Elective	3

\*\*\*General electives as required to reach 120 semester hours.

## RELIGIOUS STUDIES (B.A.)

**College of Arts and Humanities  
Philosophy Department, CNH 411,  
<http://www.cas.ucf.edu/philosophy/>  
E-mail: [religion@mail.ucf.edu](mailto:religion@mail.ucf.edu)**

Shaun Gallagher, 407-823-2273; Fax: 407-823-6658

#### Admission Requirements Degree Requirements none

- 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.

# UCF Degree Programs

<b>1. UCF General Education Program</b>	<b>(36 hrs)</b>
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select HUM 2210 Humanistic Tradition I	3 hrs
Select HUM 2230 Humanistic Tradition II	3 hrs
Select REL 2300 World Religions	3 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics (May substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

**2. Common Program Prerequisites** none

**3. Core requirements** (24 hrs)

a. Core	(0 hrs)
HUM 2210 Humanistic Traditions I	GEP
HUM 2230 Humanistic Traditions II	GEP
REL 2300 World Religions	GEP

b. Foundations in the Study of Religion and the Humanities (9 hrs)

Select three courses, at least two must be from (1)

(1) Religion

PHI 3700	Philosophy of Religion
REL 4110	Religion and the Arts
POT 4632	Religion and Politics
SYO 4200	Sociology of Religion
REL 3131	Religion in America
ANT 3241	Magic, Ritual, and Belief

(2) Humanities and Classics

HUM 3431	Ancient Humanities
HUM 3435	Medieval Humanities
HUM 3255	Modern Humanities
HUM 3252	Contemporary Humanities
CLA 3850	Classical Mythology
CLA 3851	Comparative Mythology

c. Traditions: Religion in a Global World (9 hrs)

Select three courses:

HUM 3401	Asian Humanities
HUM 3417	Hindu Thought and Culture
HUM 3419	Islamic Thought and Culture
HUM 3552	Christian Thought
HUM 3553	Moses, Jesus, and Mohammed
JST 3401	The Jewish People I

or

JST 3402	The Jewish People II
ANT 3245	Native American Religions
REL 3340	Buddhist Thought

d. Applications: Topics and Issues in the Study of Religion (6 hrs)

Select two courses:

REL 3162	Healing: Culture, Art, and Praxis
HUM 4554	Religious Quest and the Human Dilemma
HUM 4303	The Spiritual Ideal
PHI 3033	Philosophy, Religion, and the Environment
REL 3115	Religion, Spirituality, and Popular Music
REL 3111	Religion and Philosophy through Film
REL 3432	Roots of Western Mysticism

**4. Upper division Restricted Electives** (9 hrs)

Select three courses from the following list and/or the Core list above (if not being used to fulfill Core Requirements):

HUM 3320	Contemporary Multicultural Studies
HUM 4301	The Classical Ideal
HUM 4330	Performance Theory
PHI 4321	Philosophy of Embodiment: Mind/Body/Self
PHI 3638	Ethical Issues in the 21st Century
PHI 4341	Ways of Knowing
PHI 4804	Critical Theory
PHP 3786	Existentialism
AML 3615	Harlem, Haiti, and Havana
LIT 4374	Literature of the Bible
LIT 3202	Death and Dying
JST 3100	The Hebrew Creative Mind
JST 3550	Introduction of Modernism into Judaism
JST 3701	History of the Holocaust
JST 3751	Literature of the Holocaust
JST 3810	The Jewish National Movement and Roots of Zionism
ASH 3222	Islam and its Empires
ASH 3223	The Modern Middle East

**Note:** Relevant new or special topics courses in philosophy, humanities, or other relevant areas may be substituted for some required courses with prior approval by department advisor.

**5. Honors in the Major**

Students considering graduate school in Religious Studies are strongly encouraged to take Honors in the Major. Requirements are as follows:

**Core and Elective Requirements** (30 hrs)

Same requirements as for regular majors

**Honors Thesis** (6 hrs)

REL 4903H	Honors Directed Readings	3 hrs
REL 4970H	Honors Thesis	3 hrs

**Additional Requirements**

- Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both REL 4903H and REL 4970H
- Maintain a UCF GPA of at least 3.2 and a Religious Studies GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

**6. Departmental Exit Requirements** (3 hrs)

- **Either** REL 4970H: Honors Thesis (3 hrs) or REL 4910 Senior Research Seminar (3 hrs).
- Earn a "C" (2.0) or better in each required course
- Computer Competency met by REL 4970H, REL 4910, 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 Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

**8. Electives** (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 hrs

**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.

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

Fall		Spring	
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210 Hum Tradition I	3	HUM 2230 Hum Tradition II	3
MGF 1106* req# 1C1-GEP	3	STA 1060C* req# 1C2-GEP	3
REL 2300 World Religions	3	REL 3131* req# 3b-Foundn	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

**Sophomore Year**

Fall		Spring	
ANT 2511* req# 1E2-GEP	3	POS 2041* req# 1D1-GEP	3
COM 1000* req# 1A3-GEP	3	PSC 1121* req# 1E1-GEP	3
PSY 2012* req# 1D2-GEP	3	HUM 3417* req# 3c-Tradtns	3
HUM 3252* req# 4-ResElect	3	REL 4110*req#3b-Foundn	3
JST 3401* req# 3c-Tradtns	3	Elective* Check restrictions	3

Junior Year

<b>Fall</b>		<b>Spring</b>	
PHI 3700* req# 3b-Foundn	3	REL 3111* req# 4 ResElect	3
REL 3115*req#3d-AppI	3	REL 3432* req#3d-AppI	3
PHI 4341 req# 4 ResElect	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

Senior Year

<b>Fall</b>		<b>Spring</b>	
REL 4910 Seminar	3	REL 3340* req#4 3c-Tradtns	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

**RESTAURANT AND FOOD SERVICE MANAGEMENT (B.S.)**

**Rosen College of Hospitality Management**  
**9907 Universal Boulevard**  
**Orlando, Florida 32819**  
**407-903-8000**

<http://www.hospitality.ucf.edu>

Dean: Abraham Pizam

**Degree Requirements**

**1. UCF General Education Program (GEP) (36 hrs)**

- A. Communications Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
  - Select MAC 1105 College Algebra 3 hrs
  - Select CGS 2100CC Computer Fundamentals for Business or STA 2023 Statistical Methods I 3 hrs
- D. Social Foundations
  - Select ECO 2013 Macroeconomics 3 hrs
  - Or
  - Select ECO 2023 Microeconomics
  - Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
- E. Science Foundation 6 hrs

**2. Common Program Prerequisites (6 hrs)**

- HFT 1000 Introduction to Hospitality Management 3 hrs
- FSS 2221C Quantity Food Preparation 3 hrs

**3. Quantitative Tools**

- CGS 2100CC Computer Fundamentals of Business (GEP)
- or STA 2023 Statistical Methods I
- ECO 2013 Macroeconomics (GEP)
- or ECO 2023 Microeconomics (GEP)
- MAC 1105 College Algebra (GEP)

**4. Managerial Tools (25 hrs)**

- HFT 2403 Hospitality Financial Accounting 3 hrs
- HFT 2500 Hospitality Marketing 3 hrs
- HFT 2220 Hospitality Human Resources 3 hrs
- HFT 3444 Hospitality Information Systems 3 hrs
- HFT 3600 Legal Environment in Hospitality 3 hrs
- HFT 3431 Hospitality Managerial Accounting 3 hrs
- HFT 3540 Guest Services Management 3 hrs
- HFT 3261 Restaurant Management 3 hrs
- HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr

**5. Internship (3 hrs)**

- HFT 3940 Internship I 1 hr
- HFT 4941 Internship II 1 hr
- HFT 4944 Internship III 1 hr

**6. Restaurant Management Core (18 hrs)**

- HFT 4268 Case Studies in Restaurant Management 3 hrs
- HFT 4343 Hospitality Facilities, Planning and Design 3 hrs
- FSS 3124 Supply and Procurement Management 3 hrs
- FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
- HFT 4266 Restaurant Brand Management 3 hrs
- HFT 4281 Restaurant Leadership Strategies and Tactics 3 hrs

**7. Special College Requirements**

- Final exams will be given during Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.

**8. Restricted Electives (18 hrs)**

Choose any courses from the list below for a total of 18 credit hours

FSS 3232C	Intermediate Techniques of Food Production	3 hrs
HFT 3807	Multi-Unit Food Service Operations	3 hrs
FSS 4286	Catering and Banquet Organization	3 hrs
HFT 4645	Restaurant Real Estate, Site Selection and Modeling	3 hrs
HFT 4861C	Beverage Management	3 hrs
HFT 4425	Financial Analysis for Restaurant Managers	3 hrs
HFT 3574	Foodservice Marketing, Advertising, and Promotion Management	3 hrs
HFT 4269	Case Studies in Multi-Unit Restaurant Mgt	3 hrs
HFT 3654	Franchising in the Restaurant Industry	3 hrs
HFT 4281	Restaurant Leadership Strategies and Tactics	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
FSS 3008	Culture and Cuisine	3 hrs
HFT 3610	Law and Restaurant Management	3 hrs
HFT 3285	International Restaurant Corporation Management	3 hrs
HFT 4284	Training and Employee Performance in the Food Service Industry	3 hrs
HFT 3834	Topics in Restaurant & Foodservice Management	3 hrs
HFT 4864C	Seminar in Quality Brewing and Fine Beer	3 hrs
HFT 4866C	Exploring Wines of the World	3 hrs
HFT 4844	Sanitation in the Food Service Industry	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 4286	Hospitality Communications	3 hrs
HFT 3868	History of Wine and Culture	3 hrs
HFT 4894	International Gastronomy	3 hrs

**9. Foreign Language Requirements (0-8 hrs)**

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

**10. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 48 hours of upper division credit completed
- 30 semester hours of coursework completed in residency (last 30 hours) at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable).

**11. Unrestricted Electives (6 – 14 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 College 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 College of Hospitality Management.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

**Four Year Plan of Study for B.S. Restaurant and Food Service Management\***

Plan your required nine summer credit hours into your course of study.

<b>Freshman Year</b>		<b>15 Hrs</b>	<b>Spring</b>	<b>15 Hrs</b>
ENC 1101 - Eng Comp I	3 Hrs	ENC 1102 - Eng Comp II	3 Hrs	
Cult/Hist Found Sequence I	3 Hrs	SPC 1600 - Fund Oral Comm	3 Hrs	
CGS 2100CC or STA 2023	3 Hrs	Cult/Hist Found Sequence II	3 Hrs	
HFT 1000 - Intro to Hosp Man	3 Hrs	MAC 1105 - College Algebra	3 Hrs	
PSY 2012, SYG 2000, or ANT 2000	3 Hrs	FSS 2221C - Quant Food Prep	3 Hrs	

# UCF Degree Programs

## Sophomore Year

<b>Fall</b>	<b>15 Hrs</b>	<b>Spring</b>	<b>15 Hrs</b>
Science Foundation I	3 Hrs	Science Foundation II	3 Hrs
ECO 2013 or ECO 2023	3 Hrs	Cult/Hist Foundation	3 Hrs
HFT 3261 - Restaurant Mgmt	3 Hrs	FSS 3124 - Sup & Prod Mgmt	3 Hrs
HFT 2403 - Hosp Fin Acct	3 Hrs	HFT 3444 - Hosp Info Systems	3 Hrs
HFT 2220 - Hosp Hum Res Mgmt	3 Hrs	HFT 2500 - Hosp Marketing	3 Hrs

## Junior Year

<b>Fall</b>	<b>14 Hrs</b>	<b>Spring</b>	<b>16 Hrs</b>
HFT 3540 - Guest Svc Mgmt	3 Hrs	HFT 4268 - Case Studies in F.S.	3 Hrs
HFT 4266 - Rest Brand Mgmt	3 Hrs	FSS 4135 - Corp Contract & MS	3 Hrs
HFT 3431 - Hospitality Mgr Acct	3 Hrs	HFT 4343 - F.S. Equip & Design	3 Hrs
HFT 4281 - Leader Strategies	3 Hrs	Restaurant Elective	3 Hrs
HFT 3940 - Internship I	1 Hr	HFT 4941 - Internship II	1 Hr
HFT 3933 - Dist Lect in Hosp	1 Hr	HFT 3600-Legal Environ in Hosp	3 Hrs

## Senior Year

<b>Fall</b>	<b>15 Hrs</b>	<b>Spring</b>	<b>15 Hrs</b>
Rest & F.S. Elective	3 Hrs	FSS 4844- Sanitation & Safety	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
HFT 4944 - Internship III	1 Hr	Rest & F.S. Elective	3 Hrs
Unrestricted Electives	5 Hrs	Unrestrictive Elective	3 Hrs

## SCIENCE EDUCATION - BIOLOGY (B.S.)

### College of Education

### Department of Teaching and Learning Principles

### ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Aldrin Sweeney

ED 123-L, 407-823-2561

E-mail: [asweeney@pegasus.cc.ucf.edu](mailto:asweeney@pegasus.cc.ucf.edu)

### Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

### Degree Requirements

- Students should see an advisor prior to registering for classes
- 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 3 hrs
ENC 1102	Composition II 3 hrs
Select SPC 1600	Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations (9 hrs)	
Select AMH 2010	U.S. History 1492-1877 3 hrs
Select AMH 2020	U.S. History 1877-Present 3 hrs
Select PHI 2010	Introduction to Philosophy 3 hrs
C. Mathematical Foundations (6 hrs)	
Select MGF 1106	Finite Mathematics 3 hrs
Select one:	
STA 1060C	Basic Statistics using MS Excel <i>or</i>
STA 2014C	Principles of Statistics 3 hrs
D. Social Foundations (6 hrs)	
Prefer POS 2041	American National Government 3 hrs
Select PSY 2012	General Psychology 3 hrs
E. Science Foundations (6 hrs)	
Prefer PSC 1121	Physical Science 3 hrs
Select one:	
AST 2002	Astronomy <i>or</i>
GEO 1200	Physical Geography <i>or</i>
GLY 1030	Geology and its Applications 3 hrs

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	History of Western Art I <i>or</i>
ARH 2051	History of Western Art II <i>or</i>
MUL 2010	Enjoyment of Music <i>or</i>
THE 2000	Theatre Survey <i>or</i>
FIL 2400	History of Motion Pictures 3 hrs

C. Mathematics (9 hrs)	
MAC 1105	College Algebra 3 hrs
MGF 1106	Finite Mathematics GEP
One of the following (per GEP)	
STA 1060C	Basic Statistics using MS Excel <i>or</i>
STA 2014C	Principles of Statistics GEP

D. Social Science/History (12 hrs)	
AMH 2010	U.S. History 1492-1877 GEP
AMH 2020	U.S. History 1877-Present GEP
POS 2041	American National Government GEP
PSY 2012	General Psychology GEP

E. Science (9 hrs + lab)	
BSC 2010C	Biology I w/Lab 4 hrs
PSC 1121	Physical Science GEP
One of the following (per GEP)	
AST 2002	Astronomy <i>or</i>
GEO 1200	Physical Geography <i>or</i>
GLY 1030	Geology and its Applications GEP

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 (12 hrs)	
BSC 2011C	Biology II 4 hrs
Science Sequence	
CHM 2045C	Chemistry Fundamentals I <i>and</i> 4 hrs
CHM 2046	Chemistry Fundamentals II <i>and</i> 3 hrs
CHM 2046L	Chemistry Fundamentals Laboratory 1 hr
<b>OR</b>	
PHY 2053C	College Physics I <i>and</i> 4 hrs
PHY 2054C	College Physics II 4 hrs

### 3. Education Core Requirements (15 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
LAE 4361	Literacy Strategies for Mid/High School 3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools 3 hrs

### 4. Internship I Block (7 hrs)

SCE 4360	Science Instructional Analysis 4 hrs
ESE 3940	Internship I 3 hrs

- Program Internship I Prerequisites: EDG 4323 and at least 50% of all required biology courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.

- See additional requirements listed under College of Education, Office of Clinical Experiences

### 5. Specialization Requirements (22 hrs)

PSC 1121	Physical Science GEP
BSC 2010C	Biology I GEP
BSC 2011C	Biology II CPP
CHM 2045C	Chemistry Fundamentals I <i>and</i> CPP
CHM 2046	Chemistry Fundamentals II <i>and</i> CPP
CHM 2046L	Chemistry Fundamentals Lab CPP
<b>OR</b>	
PHY 2053C	College Physics I <i>and</i> CPP
PHY 2054C	College Physics II CPP
CHM 2205	Intro to Organic and Biochemistry 5 hrs
PCB 3063	Genetics 3 hrs
PCB 3063L	Genetics Lab 1 hr
PCB 3044	Ecology 3 hrs
PCB 3044L	Ecology Lab 1 hr
MCB 3020C	Microbiology 5 hrs
PCB 3703C	Human Physiology <i>or</i> 4 hrs
ZOO 3733C	Human Anatomy

### 6. Restricted Elective (3 hrs)

One 3000- or 4000- level BSC, MCB, PCB, or ZOO course with advisor's approval

**7. Internship II (ESE4943) (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 Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

**8. Foreign Language Requirements (0-8 hrs)**

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

**9. Departmental Exit Requirements**

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

**10. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**11. Total Program Semester Hours Required 126 hours**

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

**12. Recommended Four-Year Sequence of Courses**

**Freshman Year**

<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(15 hrs)</b>
EDF 2005	3 hrs	EDG 2701	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MGF 1106	3 hrs	MAC 1105	3 hrs
PSY 2012	3 hrs	PHI 2010	3 hrs
		PSC 1121	3 hrs
<b>Summer</b>	<b>(6 hrs)</b>		
EME 2040	3 hrs		
POS 2041	3 hrs		

**Sophomore Year**

<b>Fall</b>	<b>(17 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
AMH 2010	3 hrs	AMH 2020	3 hrs
BSC 2010C w/ lab	4 hrs	BSC 2011C	4 hrs
		CHM 2046	3 hrs
CHM 2045C	4 hrs	CHM 2046L	1 hr
SPC 1600	3 hrs	CHM 2205	5 hrs
STA 2014C	3 hrs		

**Summer (6 hrs)**

AST 2002	3 hrs
ARH 2050 or	3 hrs
MUL 2010 or	
THE 2000 or	
FIL 2400	

**Junior Year**

<b>Fall</b>	<b>(14 hrs)</b>	<b>Spring</b>	<b>(12hrs)</b>
EDF 4214	3 hrs	MCB 3020C	5 hrs
EDG 4323	3 hrs	PCB 3063	3 hrs
PCB 3044	3 hrs	PCB 3063L	1 hr
PCB 3044L	1 hr	TSL 4080	3 hrs

ZOO 3733C 4 hrs

Summer (3 hrs)  
LAE 4361 3 hrs

**Senior Year**

<b>Fall</b>	<b>(13 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
EDF 4603	3 hrs	ESE 4943	12 hrs
ESE 3940	3 hrs		
SCE 4360	4 hrs		
Upper div restricted elect	3 hrs		
(BSC/MCB/PCB/ZOO 3/4XXX)			

**SCIENCE EDUCATION - CHEMISTRY (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles ED209**

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Aldrin Sweeney

ED 123-L, 407-823-2561

E-mail: [asweeney@pegasus.cc.ucf.edu](mailto:asweeney@pegasus.cc.ucf.edu)

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

**Degree Requirements**

- Students should see an advisor prior to registering for classes
- 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**

**(37 hrs)**

<b>A. Communication Foundations</b>	<b>(9 hrs)</b>
ENC 1101 Composition I	3 hrs
ENC 1102 Composition II	3 hrs
Select SPC 1600 Fundamentals of Oral Communication	3 hrs
<b>B. Cultural-Historical Foundations</b>	<b>(9 hrs)</b>
Select AMH 2010 U.S. History 1492-1877	3 hrs
Select AMH 2020 U.S. History 1877-Present	3 hrs
Select PHI 2010 Introduction to Philosophy	3 hrs
<b>C. Mathematical Foundations</b>	<b>(6 hrs)</b>
Select MGF 1106 Finite Mathematics	3 hrs
Select one:	
STA 1060C Basic Statistics using MS Excel <i>or</i>	3 hrs
STA 2014C Principles of Statistics	
<b>D. Social Foundations</b>	<b>(6 hrs)</b>
Prefer POS 2041 American National Government	3 hrs
Select PSY 2012 General Psychology	3 hrs
<b>E. Science Foundations</b>	<b>(7 hrs)</b>
PHY 2053C College Physics (includes lab)	4 hrs
Prefer Select one:	3 hrs
AST 2002 Astronomy <i>or</i>	
GEO 1200 Physical Geography <i>or</i>	
GLY 1030 Geology and its Applications	

**2. Common Program Prerequisites**

**(23 hrs)**

<b>A. Communications</b>	<b>(9 hrs)</b>
ENC 1101 Composition I	GEP
ENC 1102 Composition II	GEP
SPC 1600 Fundamentals of Oral Communication	GEP
<b>B. Humanities</b>	<b>(6 hrs)</b>
PHI 2010 Introduction to Philosophy	GEP
Select one:	3 hrs
ARH 2050 The History of Art I <i>or</i>	
ARH 2051 The History of Art II <i>or</i>	
MUL 2010 Enjoyment of Music <i>or</i>	
THE 2000 Theatre Survey <i>or</i>	
FIL 2400 History of Motion Pictures	
<b>C. Mathematics</b>	<b>(9 hrs)</b>
MAC 1105 College Algebra	3 hrs
MGF 1106 Finite Mathematics	GEP
One of the following (per GEP)	GEP
STA 1060C Basic Statistics using MS Excel <i>or</i>	

## UCF Degree Programs

STA 2014C	Principles of Statistics	(12 hrs)
D. Social Science/History		
AMH 2010	U.S. History 1492-1877	GEP
AMH 2020	U.S. History 1877-Present	GEP
POS 2041	American National Government	GEP
PSY 2012	General Psychology	GEP
E. Science		(9 hrs + lab)
BSC 2010C	Biology I w/Lab	4 hrs
PHY 2053C	College Physics (includes lab)	GEP
One of the following (per GEP)		
AST 2002	Astronomy <i>or</i>	GEP
GEO 1200	Physical Geography <i>or</i>	
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
H. Other Program Prerequisites		(4 hrs)
CHM 2045C	Chemistry Fundamentals I w/lab	4 hrs

### 3. Education Pre-Professional Requirements (3 hrs)

MAC1114	College Trigonometry	3 hrs
---------	----------------------	-------

### 4. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EDF 4214	Classroom Learning Principles	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
LAE4361	Literacy Strategies for Mid/High School	3 hrs

### 5. Internship I Block (7 hrs)

SCE 4360	Science Instructional Analysis	4 hrs
ESE 3940	Internship I	3 hrs

- Program Internship I prerequisites: EDG 4323 and at least 50% of all required chemistry courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.
- See additional requirements listed under College of Education, Office of Clinical Experiences

### 6. Specialization Requirements (27 hrs)

BSC 2010C	Biology I	CPP
CHM 2045C	Chemistry Fundamentals I	CPP
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2046L	Chemistry Fundamentals Lab	1 hr
PHY 2053C	College Physics I	GEP
PHY 2054C	College Physics II	4 hrs
CHM 31020	Analytical Chemistry	5 hrs
CHM 2210	Organic Chemistry I	3 hrs
CHM 2211	Organic Chemistry II	3 hrs
CHM 2211L	Organic Laboratory Techniques I	2 hrs
CHS 3501	Intro to Forensic Science	3 hrs
BCH 4053	Biochemistry I	3 hrs

### 7. Restricted Electives (3 hrs)

One 3000- or 4000- level CHM, CHS, or BCH course with advisor's approval

### 8. Internship II (ESE4943) (12 hrs)

- SCE 4360 and at least 80% of all required chemistry courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

### 9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection,

and proficiency in the 12 Florida Educator Accomplished Practices.

- Pass all applicable sections of the Florida Teacher Certification Examination.

### 11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 12. Total Program Semester Hours Required 127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 13. Recommended Four-Year Sequence of Courses

Freshman Year			
<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
EDF 2005	3 hrs	EDG 2701	3 hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
MAC 1105	3 hrs	MGF 1106	3 hrs
PSY 2012	3 hrs	PHI 2010	3 hrs
		BSC 2010C w/Lab	4 hrs
<b>Summer</b>	<b>(6 hrs)</b>		
EME 2040	3 hrs		
POS 2041	3 hrs		
Sophomore Year			
<b>Fall</b>	<b>(16 hrs)</b>	<b>Spring</b>	<b>(14 hrs)</b>
AMH 2010	3 hrs	AMH 2020	3 hrs
AST 2002	3 hrs	CHM 2046	3 hrs
CHM 2045C w/Lab	4 hrs	CHM 2046L	1 hr
SPC 1600	3 hrs	PHY 2053C	4 hrs
MAC 1114	3 hrs	STA 2014C	3 hrs
<b>Summer</b>	<b>(7 hrs)</b>		
PHY 2054C	4 hrs		
ARH 2050 or	3 hrs		
MUL 2010 or			
THE 2000 or			
FIL 2400			
Junior Year			
<b>Fall</b>	<b>(14 hrs)</b>	<b>Spring</b>	<b>(14 hrs)</b>
EDF 4214	3 hrs	CHM 2211	3 hrs
EDG 4323	3 hrs	CHM 2211L	2 hrs
CHM 2210	3 hrs	CHS 3501	3 hrs
CHM 310205 hrs	LAE 4361	3 hrs	
		Upper div restricted elect	3 hrs
		(BCH/CHM/CHS 3/4XXX)	
<b>Summer</b>	<b>(3 hrs)</b>		
TSL 4080	3 hrs		
Senior Year			
<b>Fall</b>	<b>(13 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
BCH 4053	3 hrs	ESE 4943	12 hrs
EDF 4603	3 hrs		
ESE 3940	3 hrs		
SCE 4360	4 hrs		

## SCIENCE EDUCATION - PHYSICS (B.S.)

### College of Education

### Department of Teaching and Learning Principles, ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Aldrin Sweeney

ED 123-L, 407-823-2561

E-mail: [asweeney@pegasus.cc.ucf.edu](mailto:asweeney@pegasus.cc.ucf.edu)

### Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida commu-



- nity college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

### Degree Requirements

- Students should see an advisor prior to registering for classes
- 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 3 hrs                        |
| ENC 1102                                   | Composition II 3 hrs                       |
| Select SPC 1600                            | Fundamentals of Oral Communication 3 hrs   |
| B. Cultural-Historical Foundations (9 hrs) |  |
| Select AMH 2010                            | U.S. History 1492-1877 3 hrs               |
| Select AMH 2020                            | U.S. History 1877-Present 3 hrs            |
| Select PHI 2010                            | Introduction to Philosophy 3 hrs           |
| C. Mathematical Foundations (6 hrs)        |  |
| Select MAC 1105                            | College Algebra 3 hrs                      |
| Select one:                                |  |
| STA 1060C                                  | Basic Statistics using MS Excel <i>or</i>  |
| STA 2014C                                  | Principles of Statistics 3 hrs             |
| D. Social Foundations (6 hrs)              |  |
| Prefer POS 2041                            | American National Government 3 hrs         |
| Select PSY 2012                            | General Psychology 3 hrs                   |
| E. Science Foundations (6 hrs)             |  |
| Select PHY 2048                            | Physics for Engineers & Scientists I 3 hrs |
| Select one:                                |  |
| AST 2002                                   | Astronomy <i>or</i>                        |
| GEO 1200                                   | Physical Geography <i>or</i>               |
| 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)              |   |
| PHI 2010                           | Introduction to Philosophy GEP            |
| Select one:                        |   |
| ARH 2050                           | The History of Art I <i>or</i>            |
| ARH 2051                           | The History of Art II <i>or</i>           |
| MUL 2010                           | Enjoyment of Music <i>or</i>              |
| THE 2000                           | Theatre Survey <i>or</i>                  |
| FIL 2400                           | History of Motion Pictures 3 hrs          |
| C. Mathematics (10 hrs)            |   |
| MAC 1105                           | College Algebra GEP                       |
| MAC 2311                           | Calculus with Analytic Geometry I 4 hrs   |
| One of the following (per GEP)     |   |
| STA 1060C                          | Basic Statistics using MS Excel <i>or</i> |
| STA 2014C                          | Principles of Statistics 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 (11 hrs + lab)          |   |
| BSC 2010C                          | Biology I w/Lab 4 hrs                     |
| PHY 2048                           | Physics for Engineers & Scientists I GEP  |
| PHY 2048L                          | Physics Lab for Eng. & Scientists I 1 hr  |
| One of the following (per GEP)     |   |
| AST 2002                           | Astronomy <i>or</i>                       |
| GEO 1200                           | Physical Geography <i>or</i>              |
| GLY 1030                           | Geology and its Applications GEP          |
| 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 ESOL Students in Schools 3 hrs |
| LAE4361  | Literacy Strategies for Mid/High School 3 hrs                  |

### 4. Internship I Block (7 hrs)

- |          |                                      |
|----------|--------------------------------------|
| SCE 4360 | Science Instructional Analysis 4 hrs |
| ESE 3940 | Internship I 3 hrs                   |

- Program Internship I Prerequisites: EDG 4323 and at least 50% of all required chemistry courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.
- See additional requirements listed under College of Education, Office of Clinical Experiences

### 5. Specialization Requirements (26 hrs)

- |           |  |
|-----------|--|
| BSC 2010C | Biology I CPP                                  |
| CHM 2045C | Chemistry Fundamentals I 4 hrs                 |
| CHM 2046  | Chemistry Fundamentals II 3 hrs                |
| CHM 2046L | Chemistry Fundamentals Lab 1 hr                |
| MAC2311   | Calculus w/Analytic Geometry I GEP             |
| MAC2312   | Calculus w/Analytic Geometry II 4 hrs          |
| MAC2313   | Calculus w/Analytic Geometry III 4 hrs         |
| PHY 2048  | Physics for Scientists I GEP                   |
| PHY 2048L | Physics Lab for Engineers & Scientists I CPP   |
| PHY 2049  | Physics for Scientists II 3 hrs                |
| PHY 2049L | Physics Lab for Engineers & Scientists II 1 hr |
| PHY 3101  | Physics for Engineers & Scientists III 3 hrs   |
| PHY 3752C | Physics of Scientific Instruments 3 hrs        |

### 6. Restricted Electives (8 hrs)

3000- or 4000- level PHY or PHZ courses with advisor's approval

### 7. Internship II (ESE4943) (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 residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 11. Total Semester Hours Required 125 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 12. Recommended Four-Year Sequence of Courses

Freshman Year			
Fall	(12 hrs)	Spring	(16 hrs)
EDF 2005	3 hrs	AST 2002	3 hrs
ENC 1101	3 hrs	EDG 2701	3 hrs
MAC 1105	3 hrs	ENC 1102	3 hrs
PSY 2012	3 hrs	MAC 2311	4 hrs

# UCF Degree Programs

Summer EME 2040 POS 2041	(6 hrs) 3 hrs 3 hrs	PHI 2010	3 hrs
Sophomore Year Fall AMH 2010 BSC 2010C w/lab	(17 hrs) 3 hrs 4 hrs	Spring AMH 2020 CHM 2045C MAC 2313 ARH 2050 or MUL 2010 or MUL 2010 or FIL 2400	(14 hrs) 3 hrs 4 hrs 4 hrs 3 hrs
MAC 2312 SPC 1600 STA 2014C	4 hrs 3 hrs 3 hrs		
Summer (4 hrs) PHY 2048 PHY 2048L	3 hrs 1 hr		
Junior Year Fall CHM 2046 CHM 2046L EDG 4323 TSL 4080 Upper div rest'd elect	(14 hrs) 3 hrs 1 hr 3 hrs 3 hrs 4 hrs	Spring EDF 4214 LAE 4361 PHY 2049 PHY 2049L Upper div res'd elect	(14hrs) 3 hrs 3 hrs 3 hrs 1 hr 4 hrs
Summer PHY 3101	(3 hrs) 3 hrs		
Senior Year Fall EDF 4603 ESE 3940 SCE 4360 PHY 3752C	(13 hrs) 3 hrs 3 hrs 4 hrs 3 hrs	Spring ESE 4943	(12 hrs) 12 hrs

## SOCIAL SCIENCES (B.S.)

Office of Undergraduate Studies  
Office of Liberal and Interdisciplinary Studies

<http://liberalstudies.info>

E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)

Liberal Studies Advising Team, 407-823-0144

The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships among those fields. Satisfactory completion of the program leads to the degree Bachelor of Science with a major in Social Sciences.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences.

**Admission Requirements** none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Social Sciences major at least one semester before graduation
- Co-op and internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Restricted Elective areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each core requirement and restricted elective course
- Students should consult with a Liberal Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations   | 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  
E. Science Foundations 3 hrs  
6 hrs

### 2. Common Program Prerequisites (6 hrs)

Select no more than two lower level Social Science courses in any one area in the Restricted Elective section.

\*Asterisk indicates appropriate courses in the Restricted Electives section.

### 3. Core requirements (3 hrs)

Select one course

POS 3703	Scope and Methods of Political Science
PSY 3213C	Research Methods in Psychology
SYA 4300	Research Methods (Sociology)

### 4. Restricted Electives (60 hrs)

Select a minimum of 15 semester hours in each of four of the following six Social Science disciplines.

- |  |                                       |        |
|--|---------------------------------------|--------|
| A. Communication                                       |                                       |        |
| COM 3311   | Communication Research Methods        | 3 hrs  |
| Select one course                                      |                                       | 3 hrs  |
| RTV 3000   | Dev & Str of Elect Media and New Tech |        |
| RTV 4403   | Electronic Media, Tech, & Soc         |        |
| JOU 3004   | History of American Journalism        |        |
| Select three more Communication courses                |                                       | 9 hrs  |
| B. Economics   |                                       |        |
| *ECO 2013  | Principles of Macroeconomics          | 3 hrs  |
| *ECO 2023  | Principles of Microeconomics          | 3 hrs  |
| Select three more Economics courses                    |                                       | 9 hrs  |
| C. Political Science                                   |                                       |        |
| *POS 2041  | American National Government          | 3 hrs  |
| Select four more Political Science courses             |                                       | 12 hrs |
| D. Psychology  |                                       |        |
| *PSY 2012  | General Psychology                    | 3 hrs  |
| PPE 3003   | Personality Theory                    | 3 hrs  |
| Select three more Psychology courses                   |                                       | 9 hrs  |
| E. Public Affairs                                      |                                       |        |
| Select one course                                      |                                       | 3 hrs  |
| CCJ 3024   | Criminal Justice System               |        |
| PLA 3013   | Law and the Legal System              |        |
| PAD 3003   | Introduction to Public Administration |        |
| Additional 12 hours of Public Affairs courses          |                                       | 12 hrs |
| F. Sociology/Anthropology                              |                                       |        |
| *SYG 2000  | General Sociology                     | 3 hrs  |
| *ANT 2000  | General Anthropology                  | 3 hrs  |
| Select three additional Sociology/Anthropology courses |                                       | 9 hrs  |

### 5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in each of four Social Science disciplines
- Computer Competency is met by the major

### 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

**Graduation:** Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement (see a Liberal Studies advisor).

### 7. Electives (variable)

Select primarily from upper level courses, with a Liberal Studies advisor's approval.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required 120 hours**

**Related Programs:** Liberal Studies, Liberal Arts

**Related Minors:** Anthropology, Communication, Economics, Political Science, Psychology, Public Administration, Sociology

**Transfer Notes:**

- Courses taken at community colleges do not substitute for Upper Division courses
- 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 Gaudell

ED 115-H, 407-823-0215

E-mail: [wgaudell@mail.ucf.edu](mailto:wgaudell@mail.ucf.edu)

#### Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

#### Degree Requirements

- Students should see an advisor prior to registering for classes
- 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 3 hrs
ENC 1102	Composition II 3 hrs
Select SPC 1600	Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations (9 hrs)	
Select AMH 2010	U.S. History 1492-1877 3 hrs
Select AMH 2020	U.S. History 1877-Present 3 hrs
Select PHI 2010	Introduction to Philosophy 3 hrs
C. Mathematical Foundations (6 hrs)	
Select MGF 1106	Finite Mathematics 3 hrs
Select one:	3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>
STA 2014C	Principles of Statistics
D. Social Foundations (6 hrs)	
Prefer POS 2041	American National Government 3 hrs
Select PSY 2012	General Psychology 3 hrs
E. Science Foundations (6 hrs)	
Prefer PSC 1121	Physical Science 3 hrs
Select one:	3 hrs
ANT 2511	The Human Species <i>or</i>
BSC 1005	Biological Principles
<b>Note:</b> 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 2050	History of Western Art I <i>or</i>
ARH 2051	History of Western Art II
MUL 2010	Enjoyment of Music <i>or</i>
THE 2000	Theatre Survey <i>or</i>
FIL 2400	History of Motion Pictures

C. Mathematics (9 hrs)	
MAC 1105	College Algebra 3 hrs
MGF 1106	Finite Mathematics GEP
One of the following (per GEP)	GEP
STA 1060C	Basic Statistics using MS Excel <i>or</i>
STA 2014C	Principles of Statistics
D. Social Science/History (12 hrs)	
AMH 2010	U.S. History 1492-1877 GEP
AMH 2020	U.S. History 1877-Present GEP
POS 2041	American National Government GEP
PSY 2012	General Psychology GEP
E. Science (9 hrs + lab)	
PSC 1121	Physical Science GEP
One of the following (per GEP)	GEP
ANT 2511	The Human Species <i>or</i>
BSC 1005	Biological Principles
Select one:	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
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 (6 hrs)	
SYG 2000	General Sociology 3 hrs
ECO 2013	Macroeconomics 3 hrs

#### 3. Education Core Requirements (15 hrs)

EDG 4323	Professional Teaching Practices 3 hrs
EDF 4603	Analysis of Critical Issues in Education 3 hrs
EDF 4214	Classroom Learning Principles 3 hrs
TSL 4080	Theory and Practice of Teaching ESOL 3 hrs
	Students in Schools
LAE4361	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

- Program Internship I Prerequisites: EDG 4323 and at least 50% of all required social science courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.

- SSE 4361 should be taken concurrently with ESE 3940

- See additional requirements listed under College of Education, Office of Clinical Experiences

#### 5. Specialization Requirements (27 hrs)

EUH 2000	Western Civilization I 3 hrs
EUH 2001	Western Civilization II 3 hrs
AMH 2010	US History 1492-1877 GEP
AMH 2020	US History 1877-Present GEP
SYG 2000	General Sociology CPP
ECO 2013	Macroeconomics CPP
ECO 2023	Microeconomics 3 hrs
GEO 3471	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
(POS, INR, or CPO 3/4XXX)	
Upper Division American History Electives	6 hrs
(AMH 3/4XXX)	

#### 6. Internship II (ESE4943) (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.)

# UCF Degree Programs

## 8. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

## 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

## 10. Total Program Semester Hours Required 122 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

## 11. Recommended Sequence of Program Courses:

### Freshman Year

Fall	(12 hrs)	Spring	(15 hrs)
EDF 2005	3 hrs	BSC 1005	3 hrs
ENC 1101	3 hrs	EDG 2701	3 hrs
MGF 1106	3 hrs	ENC 1102	3 hrs
PSY 2012	3 hrs	MAC 1105	3 hrs
		POS 2041	3 hrs
<b>Summer</b>	<b>(6 hrs)</b>		
EME 2040	3 hrs		
SPC 1600	3 hrs		

### Sophomore Year

Fall	(16 hrs)	Spring	(15 hrs)
AMH 2010	3 hrs	AMH 2020	3 hrs
ECO 2013	3 hrs	AST 2002	3 hrs
PSC 1121	3 hrs	ECO 2023	3 hrs
PSC 1121L	1 hr	GEO 3471	3 hrs
STA 2014C	3 hrs	PHI 2010	3 hrs
SYG 2000	3 hrs		

### Summer (3 hrs)

ARH 2050 or  
MUL 2010 or  
THE 2000 or  
FIL 2400

### Junior Year

Fall	(15 hrs)	Spring	(13 hrs)
EDF 4214	3 hrs	Upper Div Political	3 hrs
EDG 4323	3 hrs	Sci Elect (POS 3/4XXX)	
EUH 2000	3 hrs	Upper Div Am Hist Elect	3 hrs
Upper Div Non-Western	3 hrs	(AMH 3/4XXX)	
Hist Elect (AFH/ASH/LAH 3/4XXX)		SSE 4361	4 hrs
Upper Div Political	3 hrs	ESE 3940	3 hrs
Sci Elect (POS 3/4XXX)			

### Summer (3 hrs)

EUH 2001

### Senior Year

Fall	(12 hrs)	Spring	(12 hrs)
EDF 4603	3 hrs	ESE 4943	12 hrs
LAE 4361	3 hrs		
TSL 4080	3 hrs		
Upper Div Am Hist elective (AMH 3/4XXX)	3 hrs		

## SOCIAL WORK (B.S.W.)

### College of Health and Public Affairs

#### HPA1 204, 407-823-2114

<http://www.cohpa.ucf.edu/social/>

Director: Mary Van Hook

Undergraduate Program Coordinator: Robin Kohn

E-mail: rkohn@mail.ucf.edu

## Admission Requirements - Limited Access

Acceptance to the University does not necessarily constitute admission to the upper division social work program. Separate application to the *limited access program* must be made to the School of Social Work. Students are admitted to the undergraduate program only in the Summer or Fall terms. To be considered for admission to the program, students must have:

- Admission to the University
- A 2.5 overall GPA
- An AA (from a Florida State Community College) or UCF General Education Program, Gordon Rule, and CLAST
- 15 semester hours common program prerequisites (see Section 2 below for list of courses)
- This limited access program is work-intensive. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

Personal qualifications reviewed for acceptance include intelligence, initiative, social concern, appreciation for human diversity, dependability, humanitarian interests in helping people and in improving human services as well as college-level reading and writing skills.

## Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Social Work
- Students should complete the General Education Program, the CLAST and the Common Program Prerequisite Requirements before beginning the Social Work Program
- Students should consult with a school advisor
- The courses designated in sections 1 (general education) and 2 (common program prerequisites) below may be taken at a college or university other than UCF, and should usually be 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
Prefer SPC 1600	
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Math	
Select STA 2014C-Principles of Statistics <i>or</i>	
STA 2023 Statistical Methods I	
D. Social Foundations	6 hrs
1. Select POS 2041	
2. Select PSY 2012	
E. Science Foundations	6 hrs
Select BSC 1005 <i>or</i> MCB 1310	
Select a listed science course	

### 2. Common Program Prerequisites\* (15 hrs)

POS 2041	American Government	GEP
BSC 1005	Biology	GEP
ECO 2013 <i>or</i>	Macroeconomics or	3 hrs
ECO 2023	Microeconomics	
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 Work and Community Resources	3 hrs
SOW 3300	Practice I: Generalist Practice in Social Work	3 hrs
SOW 3111	Assessing II: Human Systems	3 hrs
SOW 3352	Practice II: Interpersonal Skills in Social Work Practice	3 hrs
SOW 3401	Social Work Research	3 hrs
SOW 3620	Social Work with Diverse Populations	3 hrs
SOW 4730	Documentation in Social Work Practice and Service Programs	3 hrs
SOW 4232	Social Welfare Policies and Issues	3 hrs

SOW 4341	Micro-level Roles and Interventions in Social Work	3 hrs
SOW 4343	Macro-level Roles and Interventions in Social Work	3 hrs
SOW 4510	Field Education	9 hrs
SOW 4522	Field Education Seminar	3 hrs

**4. Required Social Work Elective 3 hrs**

**5. Required Principles of Statistics 3 hrs**

**6. Electives (variable)**

**7. Foreign Language or Cultural Diversity Requirement**

Choose two of the following suggested courses: ANT 3332, ANT 3363, ANT 2410, ANT 3640, ASH 4404, ASH 4442, CPO 4303, 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 3593, 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 hrs)**

A minimum overall GPA of 2.5 with at least a grade of "C-" (1.75) or higher in each social work course.

**10. University Minimum Exit Requirements**

- A UCF GPA of 2.0
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Related Programs:** Criminal Justice, Psychology, Public Administration, Sociology.

**Aging Studies Certificate:** In recognition of the special needs of the elderly citizens of Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major.

The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education or art education. All students must contact the Coordinator for planning their internship.

**Children's Services Certificate:** This certificate is open only to students in the undergraduate social work program (BSW). The Children's Services Certificate is designed to prepare students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

**Addictions Certificate:** This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers.

Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program and/or the addition specific courses will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

**Related Minors:** Health Services Administration, Aging Studies, Psychology, Sociology

**Honors in the Major Requirements**

1. Complete a three-credit directed reading course/or a three-credit COHPA1interdisciplinary 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\***

<b>Fall</b>	<b>14 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
ENC 1101	3	ENC 1102	3
BSC 1005 <i>or</i> MCB 1310	3	MGF 1106	3
SYG 2000 <i>or</i> PSY 2012	3	PSY 2012 <i>or</i> SYG 2000	3
STA2014C	3	MUL 2010 <i>or</i> THE 2000	3
PAF 2102	2	<i>or</i> REL 2300 <i>or</i> PHI 2010	
		POS 2041	3

**Sophomore Year**

<b>Fall</b>	<b>15/16 hrs</b>	<b>Spring</b>	<b>15/16 hrs</b>
ECO 2013 <i>or</i> ECO 2023	3	Foreign Lang II <i>or</i>	3/4
EUH 2000 <i>or</i> WOH 2012 <i>or</i>	3	Cult Diversity	
HUM 2210 <i>or</i> AMH 2010		CHM 1020 <i>or</i> PSC 1121 <i>or</i>	3
		AST 2002	
SPC 1600	3	Elective	3
Elective	3	EUH 2001 <i>or</i>	3
Foreign Lang I <i>or</i> Cult Diversity	3/4	HUM 2230 <i>or</i> AMH 2020	
		Elective	3

**Junior Year**

<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>15 hrs</b>
SOW 3104	3	SOW 3111	3
SOW 3203	3	SOW 3352	3
SOW 3300	3	SOW 3401	3
SOW Elective	3	SOW 3620	3
STA2014C <i>or</i> Elective	3	Elective	3

**Senior Year**

<b>Fall</b>	<b>15 hrs</b>	<b>Spring</b>	<b>16 hrs</b>
SOW 4232	3	SOW 4510	9
SOW 4341	3	SOW 4522	3
SOW 4343	3	Elective	1
SOW 4431	3	Elective	3
Elective	3		
Elective	3		

**SOCIOLOGY (B.A.)**

**College of Sciences**

**Department of Sociology and Anthropology**

**PH 403, 407-823-2227**

**[http://www.cas.ucf.edu/soc\\_anthro](http://www.cas.ucf.edu/soc_anthro)**

**E-mail: [sociology@ucf.edu](mailto: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 abilityabilities to employ a sociological perspective to interpret social institutions and behavior.

# UCF Degree Programs

**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-courses must be taken from the UCF Sociology and Anthropology Department.
- Students must maintain a UCF GPA of at least 2.0 in all courses used for the major.
- Students must have a "C" (2.0) or higher in all core courses.
- Co-op credit cannot be used in this major.
- Students should consult annually with a departmental advisor
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
  - 1. Prefer MAC 1105 (or higher) 3 hrs
  - 2. Prefer STA 2014C 3 hrs
- D. Social Foundations
  - 1. Select a listed course 3 hrs
  - 2. Select SYG 2000 3 hrs
- E. Science Foundations 6 hrs

### 2. Common Program Prerequisites none

(It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

### 3. Core requirements (15 hrs)

- |          |                                 |       |
|----------|---------------------------------|-------|
| SYG 2000 | General Sociology               | GEP   |
| SYA 3400 | Research Methods and Statistics | 4 hrs |
| SYA 4300 | Research Methods                | 4 hrs |
| SYA 4450 | Data Analysis                   | 4 hrs |
| SYA 3110 | Development of Social Thought   | 3 hrs |

### 4. Restricted Electives (27 hrs)

Select from the following

- |            |  |
|------------|--|
| SYG 2000   | General Sociology                      |
| SYA 3120   | Modern Sociological Thought            |
| SYA 4650CC | Applied Sociology                      |
| SYA 5625   | Proseminar                             |
| SYA 5937   | Advanced Population                    |
| SYD 3410   | Urban Sociology                        |
| SYD 3700   | Race & Ethnic Minorities in the US     |
| SYD 3800   | Sex Roles in Modern Society            |
| SYD 4020   | Population                             |
| SYD 4510   | Environmental Sociology                |
| SYD 4810   | Women in Contemporary Society          |
| SYD 4813   | Women and Social Policy                |
| SYG 2010   | Social Problems                        |
| SYO 3000   | Modern Sociology                       |
| SYO 3360   | Social Organization & Human Relations  |
| SYO 3410   | Sociology of Mental Illness            |
| SYO 3530   | Social Stratification                  |
| SYO 4100   | Family Trends                          |
| SYO 4200   | Sociology of Religion                  |
| SYO 4250   | Sociology of Education                 |
| SYO 4300   | Political Sociology                    |
| SYO 4400   | Medical Sociology                      |
| SYP 3300   | Collective Behavior                    |
| SYP 3400   | Social Change                          |
| SYP 3510   | Sociology of Deviant Behavior          |
| SYP 3511   | Sociology of Murder                    |
| SYP 3520   | Criminology                            |
| SYP 3530   | Juvenile Delinquency                   |
| SYP 3540   | Sociology of Law                       |
| SYP 3551   | Sociology of Alcoholism                |
| SYP 3562   | Socio Perspective on Domestic Violence |
| SYP 3602   | Sociology of Popular Music             |
| SYP 3630   | Sociology of Popular Culture           |
| SYP 3650   | Sociology and Sport                    |
| SYP 4000   | Sociological Social Psychology         |
| SYP 4004   | Constructing Social Issues             |
| SYP 4323   | Social Systems and Diversity           |
| SYP 4514   | Sociology of Violence                  |
| SYP 4521   | Criminal Victimization in Society      |
| SYP 4536   | Gangs and Society                      |
| SYP 4550   | Sociology of Drug Abuse                |

- |          |                              |
|----------|------------------------------|
| SYP 4730 | Sociology of Aging           |
| SYP 4734 | Minority Aging               |
| SYP 5525 | Sociological Criminology     |
| SYP 5564 | Seminar on Domestic Violence |

- Eligible students may enroll for three to 16 semester hours of Internship in SYA 3940, SYA 4941, or SYA 5944. Arrangements for Internships are coordinated by the Department Undergraduate Coordinator and require prior approval.
- All special topics courses listed under the prefixes SYA, SYD, SYO, and SYP count toward the restricted electives requirement.

### 5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all courses used for the major.
- A minimum grade 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 2 semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. The third semester may be replaced by a departmentally approved enhancement course. See the department for the list of courses.

### 7. Enhancement Requirement (0-3 hrs)

Demonstrate proficiency equivalent to a third semester of a language, or complete an Enhancement course on the list maintained by the department.

### 8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

### 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in 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.

#### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<b>Summer</b>			
Math test	See catalog	0	
<b>Freshman Year</b>			
<b>Fall</b>			
ENC 1101	Composition I	3	<b>Spring</b>
MAC 1105*	req# 1C1-GEP	3	ENC 1102 Composition II
SYG 2000	General Sociology	3	STA 2014C Prin of Statistics
SPN 1120*	req# Lang/Elect	4	SYG 2010 Social Problems
			Elective* Check restrictions
			SPN 1121* req# Lang/Elect

## Sophomore Year

<b>Fall</b>		<b>Spring</b>	
ANT 2511* req# 1E2-GEP	3	COM 1000* req# 1A3-GEP	3
EUH 2001* req# 1B1-GEP	3	REL 2300* req# 1B2-GEP	3
SYD 3700* req# 4-ResElect	3	SYD 3410* req.#4 - Res elect	4
SPN 2200* req# 7-Enhancmt	3	SYD 3800* req# 4-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## Junior Year

<b>Fall</b>		<b>Spring</b>	
POS 2041* req# 1D1-GEP	3	PHI 2010* req# 1B3-GEP	3
PSC 1121* req# 1E1-GEP	3	SYA 3110 The Dev of Soc Tht	3
SYA 4300 Res Methods	4	SYA 4450 Data Analysis	4
SYD 3410* req# 4-ResElect	3	SYO 4100* req# 4-ResElect	3
Elective* Check restrictions	2	Elective* Check restrictions	3

## Senior Year

<b>Fall</b>		<b>Spring</b>	
SYA 3120* req# 4-ResElect	3	SYP 3510* req# 4-ResElect	3
SYO 3530* req# 4-ResElect	3	SYP 3520* req# 4-ResElect	3
Elective* Check restrictions	3	SYP 4000* req# 4-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	2
Elective* Check restrictions	3	Elective* Check restrictions	3

## SPANISH (B.A.)

**College of Arts and Humanities**  
**Department of Modern Languages & Literatures,**  
**CNH 523**

<http://pegasus.cc.ucf.edu/~forlang>

**E-Mail: modernlanguage@ucf.edu**

P. Giordano, 407-823-2472

### Admission Requirements

none

### Placement in Language courses

- Placement in language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school Spanish place the student in the first semester of the third year.
- Native Spanish speakers, near-native Spanish speakers, or students who have received advanced education abroad must substitute select classes.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in Spanish must be taken at the 3000 level or above
  - At least 6 of the 36 Spanish credits must be at the 4000 level
  - At least 30 hours must be taken in Modern Language courses taught in Spanish
  - Students must earn at least a "C" (2.0) in each upper division Spanish course
  - Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures
  - Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
  - Co-op or internship credit cannot be used in this major
  - Students must see their departmental advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
  - Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs

E. Science Foundations 6 hrs

### 2. Common Program Prerequisites

(0-14 hrs)

SPN 1120*	Elem Spanish Lang & Civ I	4 hrs
SPN 1121*	Elem Spanish Lang & Civ II	4 hrs
SPN 2200*	Interm Spanish Lang & Civ I	3 hrs
SPN2201*	Interm Spanish Lang & Civ II	3 hrs

\* May be met by proficiency test or completion of SPN2201

### 3. Core requirements

(15 hrs)

SPN 3300*	Adv Spanish Gram and Comp	3 hrs
SPN 3420*	Spanish Composition	3 hrs
SPN 3760*	Adv Spanish Oral Comm	3 hrs
SPW 3100 & 3101	Survey of Spanish Literature	6 hrs

or

SPW 3130 & 3131 Survey of Latin-American Literature

\* A native or near-native Spanish speaker must substitute an alternate upper division Spanish course in consultation with a departmental advisor.

### 4. Upper Division Restricted Electives

(21 hrs)

- a. Select one of the following 3 hrs
- |          |                         |  |
|----------|-------------------------|--|
| FOL 3730 | Romance Philology       |  |
| SPN 4801 | Spanish Morphosyntax    |  |
| SPN 4800 | Spanish American Syntax |  |
| SPN 4780 | Spanish Phonetics       |  |
| SPN 3852 | Bilinguismo             |  |
- b. Spanish literature beyond the survey level (taught in Spanish) 6 hrs
- c. Culture and Civilization 3 hrs
- |          |                              |  |
|----------|------------------------------|--|
| SPN 4510 | Spanish Civ & Culture or     |  |
| SPN 4520 | Latin American Civ & Culture |  |
- d. Spanish courses 9 hrs

### 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division Spanish courses
- Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
- Computer Competency met by CGS 1060C or equivalent

### 6. Foreign Language Requirements

(0-16 hrs)

**Admission:** Met by Graduation requirements.

**Graduation:** Met by Common Program Prerequisites.

### 7. Electives

(variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required

**120 hours**

**Related Programs:** French, Modern Language Combination

**Related Minors:** French, Italian, Judaic Studies, Latin American Studies, Spanish

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.
- Native speakers, or students who have received advanced education in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.

# UCF Degree Programs

## Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

<b>Fall</b>		<b>Spring</b>	
ANT 2000* req# 1D2-GEP	3	ENC 1102 Composition II	3
ENC 1101 Composition I	3	STA 1060C* req# 1C2-GEP	3
MGF 1106* req# 1C1-GEP	3	SPN 1121* req# 2-CPP	4
SPN 1120* req# 2-CPP	4	Elective* Check restrictions	4
Elective* Check restrictions	3		

### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
AMH 2010* req# 1B1-GEP	3	BSC 1005* req# 1E2-GEP	3
ARH 2050* req# 1B3-GEP	3	MUL 2010* req# 1B2-GEP	3
POS 2041* req# 1D1-GEP	3	COM 1000* req# 1A3-GEP	3
PSC 1121* req# 1E1-GEP	3	SPN2201* req# 2-CPP	3
SPN 2200* req# 2-CPP	3	Elective* Check restrictions	3

### Junior Year

<b>Fall</b>		<b>Spring</b>	
SPN 3300 Adv Spa Gram Comp	3	SPW 3101* req# 3-Core	3
SPN 3420 Spanish Comp	3	SPN 4780* req# 4a-ResElec	3
SPN 3760 Adv Spa Oral Com	3	SPN 3141* req# 4d-ResElec	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

### Senior Year

<b>Fall</b>		<b>Spring</b>	
SPW 3100* req# 3-Core	3	SPW 3131* req# 4b-ResElec	3
SPN 4520* req# 4c-ResElec	3	SPW 4381* req# 4b-ResElec	3
SPN 5705* req# 4d-ResElec	3	SPN 4410* req# 4d-ResElec	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

## SPORTS AND FITNESS (B.S.)

### College of Education

#### Department of Teaching and Learning Principles, ED209

<http://pegasus.cc.ucf.edu/~sportfit/>

Program Coordinator: Dr. Michael Kehoe

UCF at South Lake, Bldg 2, Room 316, 352-536-2179

E-mail: [mkehoe@mail.ucf.edu](mailto:mkehoe@mail.ucf.edu)

### (This program is only offered at UCF at South Lake)

#### Admission Requirements

- Complete the University General Education Requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university; or the AS degree from the affiliated program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST alternative criteria.
- Complete prerequisite courses.

#### Degree Requirements

- Students should consult with an advisor on a regular basis and prior to registration.
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.
- Students must earn at least a "C-" (1.75) in each required course and maintain an overall GPA of at least a 2.0.
- Prior to participation in Sports and Fitness Practicum I and Practicum II listed below, students must have achieved admission into one of the areas of specialization listed and described below.
- Students must meet with their advisor prior to enrollment in Sports and Fitness Practicum I and Practicum II to complete departmental approval process of the organization with which they will be working.

#### 1. UCF General Education Program

A. Communication Foundations	(9 hrs)
ENC 1101 Composition I	3 hrs
ENC 1102 Composition II	3 hrs
Prefer SPC 1600 Fundamentals of Oral Comm	3 hrs
B. Cultural-Historical Foundations	(9 hrs)
Prefer AMH 2010 U.S. History 1492-1877	3 hrs
Prefer AMH 2020 U.S. History 1877-Present	3 hrs

Prefer PHI 2010 Introduction to Philosophy	3 hrs
C. Mathematical Foundations	(6 hrs)
Prefer MGF 1106 Finite Mathematics	3 hrs
Select one:	3 hrs
STA 1060C Basic Stat using Microsoft Excel <i>or</i>	
STA 2014C Principles of Statistics	
D. Social Foundations	(6 hrs)
Prefer POS 2041 American National Government	3 hrs
Prefer PSY 2012 General Psychology	3 hrs
E. Science Foundations	(6 hrs)
Prefer PSC 1121 Physical Science	3 hrs
Select BSC 2010C Biology I	4 hrs

<b>2. Sports and Fitness Lower Division</b>	<b>(7 hrs)</b>
PET 2622C Human Injuries	3 hrs
ZOO 3736C Exercise Physiology Anatomy	4 hrs

#### 3. Lower Division Electives\* (16 Hrs)

Selected Electives (Prefixes: PEL, PEM, PEO, PET)	7 hrs
EME 2040 Tecnology for Educators <i>or</i>	3 hrs
CGS 1060C Introduction to Computer Science	
MAC 1105 College Algebra	3 hrs
Humanities Elective	3 hrs

\*See advisor for Course Selection

#### 4. Sports & Fitness Core (27 Hrs)

PET 3137 Concepts and Practices in Sports and Fitness	3 hrs
PET 3408 Public Relations in Sports and Fitness	3 hrs
PET 3462 Fiscal and Facilities Issues in Sports and Fitness	3 hrs
PET 3493 Sports and Ethics	3 hrs
PET 4215 Motivational Aspects of Athletic Performance	3 hrs
PET 4312 Biomechanics	3 hrs
PET 4401 Administration & Evaluation	3 hrs
PET 4491 Legal Issues in Sports and Fitness	3 hrs
PET 4550 Fitness Assessment and Exercise	3 hrs

#### 5. Specialization (12 Hrs)

##### Select One Option:

##### Option A: Coaching

PET 3765 Coaching Theory	3 hrs
PET 4763 Coaching Methods and Principles	3 hrs
PET 4625 Human Injuries - Mechanisms and Prevention	3 hrs
<i>Coaching Specific (choose one)</i>	3 hrs
PEO 2624 Coaching Basketball	
PEO 3324 Coaching Volleyball	
PEO 3644 Coaching Football	

Students selecting the Coaching Specialization must register and complete the State of Florida Coaching Certification Process or an equivalent professional certifying body.

##### Option B: Fitness

PET 3361 Nutrition for Sports and Fitness	3 hrs
PET 3776 Fitness and Conditioning Concepts	3 hrs
PET 4083C Practical Fitness Training	3 hrs
PET 4625 Human Injuries - Mechanisms and Prevention	3 hrs

Students selecting the Fitness Specialization must register for a Professional Fitness Certification through the American College of Sports Medicine (ACSM), the National Strength and Conditioning Association (NSCA), or an equivalent Professional Certifying body.

#### 6. Upper Division Elective (3 hrs)

Approved by advisor

#### 7. Sports & Fitness Practica (18 Hrs)

PET 4925 Sports and Fitness Practicum I	6 Hrs
PET 4926 Sports and Fitness Practicum II	12 Hrs

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 organi-



zations. Students will have the option to arrange their own practicum experience if they so choose. In either case, before enrolling in either Practicum I or Practicum II, students must meet with their advisor to provide organization contact information and gain Practicum Placement Approval.

The students will be instructed that they will be representing not only themselves while on site during their Practicum experiences, but also the University of Central Florida and the Sports and Fitness Program. Professionalism in manner, dress and job performance will be expected at all times. Should there be any question of the performance of the students during their practicum experience, they will be required to meet with their University Supervisor and their Faculty Advisor for a performance evaluation before returning to the Practicum site. The performance concerns will be addressed and a plan of action will be developed. If the problems persist and the situation warrants, the students may be removed from their Practicum experience.

### 8. Foreign Language (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 9. Exit Requirements

- A minimum overall GPA of 2.5.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event
- Successful completion of 18 hours of Practicum Experiences.

### 10. Total Program Semester Hours Required (120 hrs)

#### 11. Recommended Four-Year Sequence of Courses

<b>Freshman Year</b>			
<b>Fall</b>	<b>(12 hrs)</b>	<b>Spring</b>	<b>(16 hrs)</b>
*CGS 1060C or EME 2040 ENC 1101 *MGF 1106 PSC 1121	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs	AMH 2010 BSC 2010C ENC 1102 MAC 1105 SPC 1600	3 hrs 4 hrs 3 hrs 3 hrs 3 hrs

<b>Sophomore Year</b>			
<b>Fall</b>	<b>(14 hrs)</b>	<b>Spring</b>	<b>(12 hrs)</b>
PSY 2012 STA 1060C or STA 2014C ZOO 3736C Specialization electives (PEL/PEM/PEO/PET XXXX)	3 hrs 3 hrs 4 hrs 4 hrs	PET 2622C POS 2041 AMH 2020 Specialization electives (PEL/PEM/PEO/PET XXXX)	3 hrs 3 hrs 3 hrs 3 hrs
<b>Summer</b>	<b>(6 hrs)</b>		
PHI 2010 *Humanities elective	3 hrs 3 hrs		

<b>Junior Year</b>			
<b>Fall</b>	<b>(15 hrs)</b>	<b>Spring</b>	<b>(15hrs)</b>
PET 3137 PET 3493 PET 4401 PET 4550 Specialization Option A (Coaching): Upper division restricted elective (see advisor) or Specialization Option B (Fitness): PET 3776	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs 3 hrs	PET 3408 PET 4215 PET 4312 PET 4491 Specialization Option A (Coaching): PET 4763 or Specialization Option B (Fitness): PET 3361	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs 3 hrs
<b>Summer</b>	<b>(3 hrs)</b>		
Specialization Option A (Coaching): PEO 2624 or PEO 3324 or PEO 3644 or Specialization Option B (Fitness): Upper division restricted elective (see advisor)	3 hrs		

<b>Senior Year</b>			
<b>Fall</b>	<b>(12 or 15 hrs)</b>	<b>Spring</b>	<b>(12 or 15 hrs)</b>
PET 3462 PET 4625 PET 4925 Specialization Option A (Coaching): PET 3765	3 hrs 3 hrs 6 hrs 3 hrs	PET 4926 Specialization Option B (Fitness): PET 4083C	12 hrs 3 hrs

\*Please see your faculty Advisor for course selection. A.S. students should consult with their community college advisor for selection of electives.

## STATISTICS (B.S.)

**College of Sciences**  
**Department of Statistics and Actuarial Science**  
**CC II 212, 407-823-2289**  
<http://www.cas.ucf.edu/statistics>  
**E-mail: statistics@ucf.edu**  
 Nizam Uddin, 407-823-2692

**Admission Requirements** none  
**Degree Requirements** none

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a "C" (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 +3 hrs)

Note: Certain courses must be selected in the GEP for this major bringing the total hours to more than 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
Select MAC 2311	4 hrs
Select STA 2023	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select BSC 2010C	4 hrs
Select PHY 2053C or CHM 2045C	4 hrs

### 2. Common Program Prerequisites (7 hrs)

COP 3502C*	Computer Science I	3 hrs
MAC 2311	Calculus with Analy Geo I	GEP
MAC 2312	Calculus with Analy Geo II	4 hrs
BSC 2010C*	Biology I	GEP

\*See Transfer Notes for possible substitutes

### 3. Core requirements (51 hrs)

STA 2023	Statistical Methods I	GEP
STA 4102	Computer Process of Stat Data	3 hrs
STA 4163	Statistical Methods II	3 hrs
STA 4164	Statistical Methods III	3 hrs
STA 4321	Statistical Theory I	3 hrs
STA 4322	Statistical Theory II	3 hrs
COT 4500	Numerical Calculus	3 hrs
MAC 2313	Calculus with Analy Geo III	4 hrs
ENC 3241	Writing for the Tech Professional	3 hrs
CHM 2045C or PHY 2053C		GEP
COP 3223 3223*	Intro to Programming in C*	3 hrs

\*may substitute an approved programming language course

- a. Select one course
 

MAS 3106	Linear Algebra	
MAS 3105	Linear and Matrix Algebra	
- b. Select one course
 

COT 3100C	Introduction to Discrete Structure	3 hrs
MHF 3302	Logic and Proof in Mathematics	
- c. Select three from among the following: 9 hrs

## UCF Degree Programs

STA 3096	Statistical Graphics	
STA 4173	Biostatistical Methods	
STA 4222	Sample Survey Methods	
STA 4502	Nonparametric Stat Methods	
STA 4504	Categorical Data Analysis	
STA 4664	Statistical Quality Control	
STA 4852	Applied Time Series	
d. Select a third science course and associated lab		4 hrs
BSC 2011C	Biology II (PR: BSC 2010C)	
CHM 2045C	Chemistry Fundamentals I (if not taken in GEP)	
CHM 2046 & 2046L	Chemistry Fundamentals II & Lab (PR: CHM 2045C)	
PHY 2053C	College Physics I (if not taken in GEP)	
PHY 2054C	College Physics II (PR: PHY 2053C)	
e. Select one course		3 hrs
Select any science course from the College of Arts & Humanities or the College of Sciences or any 3000-4000 level science course from either the College of Health & Public Affairs or the Burnett College of Biomedical Sciences		

#### 4. Restricted Electives (6 hrs)

- Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses
- Selected courses in engineering or business may be used but must first be approved by the Statistics Department
- The following cannot be used: MAC 2233, MAC 2253, MAC 2254, all MAE courses, and MHF 4404

#### 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each STA course
- Take SOA Exam P (Probability)
- Computer Competency met by STA 4102

#### 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

#### 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

#### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed (Note: Statistics majors may count MAC 2313 as upper division credit.)
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** 120 hrs

**Related Programs:** Mathematics, Mathematics Education, Actuarial Science Track

**Related Minors:** Statistics, Mathematics

#### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- COP 3502C: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

#### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same

requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Summer

Math test See catalog

#### Freshman Year

<b>Fall</b>		<b>Spring</b>	
BSC 2010C Biology I	4	ENC 1102 Composition II	3
ENC 1101 Composition I	3	PHY 2053C College Physics I	4
MAC 2311 Calc Anal Geo I	4	STA 2023 Stat Methods I	3
MUL 2010* req# 1B2-GEP	3	MAC 2312 Calc Anal Geo II	4

#### Sophomore Year

<b>Fall</b>		<b>Spring</b>	
AMH 2010* req# 1B1-GEP	3	COP 3223 Intro to Prog C	3
ARH 2050* req# 1B3-GEP	3	STA 4164 Stat Methods III	3
POS 2041* req# 1D1-GEP	3	MAS 3105* req# 3a-Core	4
MAC 2313 Calc Anal Geo III	4	PHY 2054C College Physics II	4
STA 4163 Stat Methods II	3		

#### Junior Year

<b>Fall</b>		<b>Spring</b>	
COP 3502C Computer Science I	3	ENC 3241 Wr the Tech Prof	3
STA 4321 Stat Theory I	3	STA 4322 Stat Theory II	3
COT 3100C* req# 3b-Core	3	STA 4222* req# 3c-Core	3
STA 4664* req# 3c-Core	3	BSC 2011C* req# 3e-Core	4
STA 4183* req# 4-ResEle	3	Elective* Check restrictions	4

#### Senior Year

<b>Fall</b>		<b>Spring</b>	
COT 4500 Numerical Calculus	3	PSY 2012* req# 1D2-GEP	3
STA 4102 Comp Oroc of Stat	3	SPC 1016* req# 1A3-GEP	3
STA 4502* req# 3c-Core	3	Elective* Check restrictions	3
STA 4130* req# 4-ResEle	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Take SOA EXAM			

## 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/~technicaled/>

*Program Coordinator:* Jo Ann M. Whiteman

ED 122-T, 407-823-2848

E-mail: [jwhiteman@mail.ucf.edu](mailto:jwhiteman@mail.ucf.edu)

This program is only available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see <http://distrib.ucf.edu/home>.

#### Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Meet the University CLAST or CLAST alternative criteria
- Complete prerequisite courses

#### Degree Requirements

- Students should consult with an advisor prior to registration.

For students in adult Technical Education and Industry Training. This degree does not lead to teacher certification at the state level.

#### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	(9 hrs)
ENC 1101 Composition I	3 hrs
ENC 1102 Composition II	3 hrs
Select SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundations	(9 hrs)
C. Mathematical Foundations	(6 hrs)
Select MGF 1106 Finite Mathematics	3 hrs

Select one:		3 hrs
STA 1060C	Basic Statistics using MS Excel <i>or</i>	
STA 2014C	Principles of Statistics	
D. Social Foundations		(6 hrs)
E. Science Foundations		(6 hrs)

<b>2. Common Program Prerequisites</b>		<b>(9 hrs)</b>
EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs

<b>3. Program Core Requirements</b>		<b>(27 hours)</b>
EVT 3365	Gen Method/Test Eval	3 hrs
EVT 3062	Professional Role Voc Ed Teacher	3 hrs
EVT 3312	Course Const Health Occ Ed <i>or</i>	3 hrs
EVT 3371	Course Const Industrial Ed	
EVT 3502	Special Needs Voc Ed Students	3 hrs
EVT 4065	Princip/Prac Voc Ed	3 hrs
EVT 4368	Adv Teaching/Techniques in Voc Ed	3 hrs
EVT 3367	Eval Vocation Training	3 hrs
EVT 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 occupational expertise equivalent to 30 semester hours of credit. Appropriate documentation must be provided to advisor before this will be submitted for credit.

**5. Upper Division Electives (6 hrs)**  
 (with advisor's approval)

**6. Directed Field Experience (12 hrs)**

- The Occupational Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience.

**7. Foreign Language Requirements (0-8 hrs)**  
 State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

**6. Departmental Exit Requirements\***

- Achieve a minimum 2.5 GPA in all courses within the major.

**7. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**8. Total Program Semester Hours Required : 120 hours**

**9. Recommended Sequence of Program Courses:**

<b>Freshman Year</b>		
<b>Fall</b>		
ENC 1101		(15 hrs)
MGF 1106		3 hrs
SPC 1016		3 hrs
Cultural-Historical Foundations Course		3 hrs
Social Foundations Course		3 hrs
<b>Spring</b>		
ENC 1102		(15 hrs)
STA 1060C or STA 2014C		3 hrs
Cultural-Historical Foundations Course		3 hrs
Cultural-Historical Foundations Course		3 hrs
Social Foundations Course		3 hrs

<b>Sophomore Year</b>		
<b>Fall</b>		<b>(12 or 16 hrs)</b>
EDF 2005		3 hrs
EME 2040		3 hrs
Science Foundations Course		3 hrs
Technical Specialization Course		3 hrs
Foreign Language Course (if needed)		4 hrs
<b>Spring</b>		<b>(12 or 16 hrs)</b>
EDG 2701		3 hrs
Science Foundations Course		3 hrs
Technical Specialization Course		3 hrs
Technical Specialization Course		3 hrs
Foreign Language Course (if needed)		4 hrs
<b>Summer</b>		<b>(6 hrs)</b>
EVT 3502		3 hrs
EVT 3312 or EVT 3371		3 hrs

<b>Junior Year</b>		
<b>Fall</b>		<b>(15 hrs)</b>
EVT 3365		3 hrs
Technical Specialization Course		3 hrs
Technical Specialization Course		3 hrs
Technical Specialization Course		3 hrs
Technical Specialization Course		3 hrs
<b>Spring</b>		<b>(15 hrs)</b>
EVT 3062		3 hrs
EVT 3367		3 hrs
Technical Specialization Course		3 hrs
Technical Specialization Course		3 hrs
Technical Specialization Course		3 hrs
<b>Summer</b>		<b>(6 hrs)</b>
EVT 4065		3 hrs
EVT 4169		3 hrs

<b>Senior Year</b>		
<b>Fall</b>		<b>(12 hrs)</b>
ADE 4382		3 hrs
EVT 4368		3 hrs
Upper Division Elective		3 hrs
Upper Division Elective		3 hrs
<b>Spring</b>		<b>(12 hrs)</b>
EVT 4941		12 hrs

\*It is highly recommended that students seeking State certification pass the GKT. See advisor for further details.

**THEATRE (B.F.A.)**  
**College of Arts and Humanities**  
**Department of Theatre, UTC 180; 407-823-2862**  
<http://www.theatre.ucf.edu>  
**Acting: Be Boyd, bboyd@mail.ucf.edu**  
**407-823-0872**  
**Design & Technology and Stage Management: Bert Scott, hscott@mail.ucf.edu; 407-823-3636**

The Bachelor of Fine Arts Degree is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre. It provides the student with a very structured and intensive career preparation in either Acting, Stage Management, or Design and Technology. This BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

**Admission Requirements**

- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become BFA majors via an interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at <http://www.theatre.ucf.edu>.
- An Acting candidate must be interviewed and perform two mono-

# UCF Degree Programs

logues of contrasting styles limited to a combined time of 3 minutes. See [www.theatre.ucf.edu](http://www.theatre.ucf.edu) for details and to schedule an appointment.

- Design and Technology and Stage Management tracks require an interview and portfolio review. The portfolio should contain no more than fifteen examples of the student's best work representing a variety of mediums including theatre work, drawing, painting, or other related projects. Three-dimensional pieces should be submitted in photo format. See [www.theatre.ucf.edu](http://www.theatre.ucf.edu) for details and to schedule an appointment.
- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of audition or interview.\*

## Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major
- Theatre grades of less than "C" (2.0) will not be counted
- Continuation in the BFA program requires a positive BFA review
- 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
- Prior to graduation, all BFA acting majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be in a shop or front of house, and the final one can be chosen by the student.
- Prior to graduation, all BFA Design and Technology and Stage Management majors (including transfers) must participate in at least 5 productions in addition to their Stagecraft I and II Labs. At least two participation credits must be as a department head, stage manager, assistant stage manager, designer, or other high-level production role. The other three credits can be a combination of shop assignments, run crew, front of house, or department head. Stage Management majors can use performance assignments for participation assignments.
- All BFA acting majors are required to audition for all Fall and Spring productions and must accept the roles assigned.
- Due to the conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the BFA program is not designed for transfer students, transfer students may audition and be admitted, but they should consult with the Theatre Department's Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/ Community College System-
- Design and Technology Students are required to take ARH 2051 as part of their GEP and are strongly encouraged to take ARH 2050 as an elective as early in their academic career as possible.
- Design and Technology Students are required to take at least two design or technical direction elective courses following the completion of Scenography.
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Courses designated 1 (General Education Program) are taken throughout all four years.

<b>1. UCF General Education Program</b>	<b>(36 hrs)</b>
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select one course from 1.B.1 list	3 hrs
Select THE 2020 Survey of Theatre for Majors	3 hrs

Design and Technology Students- Select ARH 2051 (History of Western Art II)	3 hrs
C. Mathematical Foundations	
Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Select STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

## 2. Common Program Prerequisites (9 hrs)

THE 2020*	Survey of Theatre for majors	GEP
THE 2304	Script Analysis	3 hrs
THE 2090L*	Theatre Participation – Management I	1 hr
TPA 2290L*	Theatre Participation - Production I	1 hr
TPP 2190*	Theatre Participation - Performance I	1 hr
TPA 2210	Stagecraft I	3 hrs
	Or	
TPA 2201	Technical Theatre Production	2 hrs
	And	
TPA 2201	Technical Theatre Production LAB	1 hr

\*See Transfer Notes for possible substitutes

## 3. Core Requirements (18 hrs)

TPP 2110C	Acting I - Introduction	3 hrs
THE 3XXX	Theatre History and Dramatic Literature I	3 hrs
THE 3XXX	Theatre History and Dramatic Literature II	3 hrs
THE 3XXX	Theatre History and Dramatic Literature III	3 hrs
THE 2304	Script Analysis	CPP
THE 2090L	Theatre Participation – Management I	CPP
TPA 2290L	Theatre Participation - Production I	CPP
TPP 2190	Theatre Participation - Performance I	CPP
TPP 4XXX	Theatre Capstone	3 hrs
TPP 3310C	Directing I	3 hrs

## 4A. Specialization: select one area (66 hrs)

### Acting Specialization

TPA 2201	Technical Theatre Production	CPP
TPA 2201	Technical Theatre Production LAB	CPP
TPP 2170C	Acting II – The Actor Prepares	3 hrs
TPP 2190	Theatre Participation - Performance I	1 hr
DAA 2200C	Ballet I	2 hrs
TPP 2710C	Voice Production I	2 hrs
TPP 3172C	Acting III – Building the Character	3 hrs
TPP 3510C	Movement for Actors I	2 hrs
TPP 3XXX	Movement for Actors II	2 hrs
TPP 3512C	Stage Combat	2 hrs
TPP 3257	Music 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 – Creating the Role	3 hrs
TPP 4142C	Acting V - Verse	3 hrs
TPP 4265C	Acting VI - TV/Film	3 hrs
TPP 4531C	Period Movement	2 hrs
TPP 4940L	Theatre Internship	6 hrs
TPA 2248C	Makeup Techniques	2 hrs
TPP 3223	Theatre Careers for Performance	3 hrs
DAA 2570C	Jazz Dance I	2 hrs
	Restricted electives (see list of courses)	15 hrs

### Stage Management Specialization

TPA 2210	Stagecraft I	CPP
TPA 2210L	Stagecraft I LAB	1 hr
TPA 2211	Stagecraft II	3 hrs
TPA 2211L	Stagecraft II LAB	1 hr
TPA 4393	Theatre Participation – Production II	1 hr
THE 4093L	Theatre Participation – Management II	1 hr
TPA 4400	Theatre Management	3 hrs
TPP 2170C	Acting II – The Actor Prepares	3 hrs
TPA 2000C	Theatre Design Basics	3 hrs
TPA 2XXX	Scenography	3 hrs
TPA 2XXX	Stage Electronics	3 hrs
TPA 2XXX	Stage Management Basics	3 hrs
TPA 3601	Stage Management	3 hrs
TPA 4602	Advanced Stage Management	3 hrs
TPA 3221	Lighting Design for Theatre I	
	or	
TPA 3260	Sound Design for Theatre I	3 hrs
TPA 3197	Summer Theatre Tech	3 hrs
TPA 3195	Theatre Studio Tech	3 hrs
TPA 3043C	Costumes, Architecture and Décor History I	3 hrs
TPA 3044C	Costumes, Architecture and Décor History II	3 hrs

TPA 4940	Theatre Internship	6 hrs
TPA 3401	Theatre Careers for Tech/Management	3 hrs
TPA 3250	CADD for Theatre	2 hrs
Restricted electives (see list of courses)		9 hrs

### Design and Technology Specialization

ARH 2051	Art History II	GEP
TPA 2210	Stagecraft I	CPP
TPA 2210L	Stagecraft I LAB	1 hr
TPA 2211	Stagecraft II	3 hrs
TPA 2211L	Stagecraft II LAB	1 hr
TPA 2XXX	Stage Electronics	3 hrs
TPA 4393	Theatre Participation – Production II (1 credit course, must be taken twice)	2 hrs
TPA 2000C	Theatre Design Basics	3 hrs
TPA 2071C	Theatre Rendering	3 hrs
TPA 2XXX	Scenography	3 hrs
TPA 3043C	Costumes, Architecture and Décor History I	3 hrs
TPA 3044C	Costumes, Architecture and Décor History II	3 hrs
TPA 3077	Scene Painting	
Or		
TPA 3XXX	Topics in Technical Theatre	2 hrs
TPA 3197	Summer Theatre Tech	3 hrs
TPA 3195	Theatre Studio Tech	3 hrs
TPA 3230	Costume Construction	3 hrs
TPA 3250	Cadd for Theatre	2 hrs
TPA 3251	Advanced CADD for Theatre	2 hrs
TPA 4940	Theatre Internship	6 hrs
TPA 3401	Theatre Careers for Tech/Management	3 hrs
Restricted electives (see list of courses)		17 hrs

### 4B. Restricted Electives (except where required by a specialization - see specializations for credit hours)

Chosen from the following

THE 2090L	Theatre Participation – Management I	1 hr
THE 3230	Commonality within Cultural Diversity Experienced through Theater	3 hrs
THE 4093L	Theatre Participation – Management II	1 hr
THE 3240	Musical Theatre Survey	3 hrs
THE 5307	Contemporary Theatre	3 hrs
TPA 2290L	Theatre Participation - Production I	1 hr
TPA 3077	Scene Painting	2 hrs
TPA 3XXX	Topics in Technical Theatre	2 hrs
TPA 3060C	Scene Design for Theatre I	3 hrs
TPA 3040	Costume Design for Theatre I	3 hrs
TPA 3221	Lighting Design for Theatre I	3 hrs
TPA 3260	Sound Design for Theatre I	3 hrs
TPA 4XXX	Scene Design for Theatre I	3 hrs
TPA 4041C	Costume Design for Theatre I	3 hrs
TPA 4XXX	Lighting Design for Theatre II	3 hrs
TPA 4XXX	Sound Design for Theatre II	3 hrs
TPA 3XXX	Advanced Topics in Technical Theatre	3 hrs
TPA 3197	Summer Theatre Studio/Tech/Design	3 hrs
TPA 3195	Theatre Studio/Tech/Design	3 hrs
TPA 2XXX	Stage Management Basics	3 hrs
TPA 3601	Stage Management	3 hrs
TPA 4400	Theatre Management	3 hrs
TPA 4393	Theatre Participation – Production II	1 hr
TPP 2190	Theatre Participation – Performance I	1 hr
TPP 3197	Summer Theatre Perform.	3 hrs
TPP 3952	Studio Performance	3 hrs
TPA 3043C	Costumes, Architecture and Décor History I	3 hrs
TPA 3044C	Costumes, Architecture and Décor History II	3 hrs
TPP 4143C	Acting Styles	3 hrs
ARH 2050	History of Western Art I	GEP
ARH 2051	History of Western Art II	2 hrs
TPA 2248C	Makeup Technique	3 hrs
TPA 2XXX*	Introduction to Theatrical Design	3 hrs
TPP 4311*	Advanced Directing	3 hrs
TPP 4193	Theatre Participation – Performance II	1 hr
THE 4912*	Undergraduate Research	3-6 hrs
DAA 4912*	Undergraduate Research	3-6 hrs
Honors in the Major Directed Readings and Thesis*		3-6 hrs
THE 3905*	Independent Study	1-9 hrs
DAA 3905*	Independent Study	1-9 hrs

Other THE, TPA, TPP, DAA or DAN courses as approved by the department  
\* requires instructor and departmental approval in advance

### 5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Theatre course
- Maintain a ‘B’ Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards

your total theatre credits.

- Minimum of 60 theatre credits must be completed in residency at UCF
- Computer Competency met by STA 1060C or computer science course

### 6. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

### 7. 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
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required 129 hrs**

**Related Programs:** Art, Film, Music, Theatre Studies BA

**Related Minors:** Art, Music, Film, Theatre, Dance

### Transfer Notes:

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all theatre courses and must be taken.
- THE 2304: may use THE 2300
- THE 2090L: may use THE 2925
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1190 or TPP 2110
- TPA 2210: may use TPA 2200 or TPA 2201
- TPA 2201: may use TPA 2200 or TPA 2210

## THEATRE STUDIES (B.A.)

**College of Arts and Humanities**

**Department of Theatre, UTC 180; 407-823-2862**

**<http://www.theatre.ucf.edu>**

**E-mail: [jwshafer@mail.ucf.edu](mailto:jwshafer@mail.ucf.edu) / [duktollefs@mail.ucf.edu](mailto:duktollefs@mail.ucf.edu)**

John Shafer/Kristina Tollefsen, 407-823-0871/0233

The Bachelor of Arts Degree is designed to offer a thorough foundation in theatre while providing greater flexibility and opportunity for interdisciplinary study. The BA course of study emphasizes a broad-based theatre education and provides freedom to pursue a complementary minor. Upon graduation, UCF students can choose to pursue further education or enter the job market with a skill set unique to their goals.

### Admission Requirements

- The departmental faculty evaluates, via an interview, students who desire to become BA majors. For complete information, contact the Department of Theatre or visit the audition site online at [www.theatre.ucf.edu](http://www.theatre.ucf.edu).
- All students must submit a three letters of recommendation, a resume, and transcripts of previous college work at the time of interview

### Degree Requirements

# UCF Degree Programs

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to complete a minor to matriculate.
- Students who complete a double major fulfill the minor requirement automatically.
- Students must maintain a minimum "C" (2.0) overall Theatre GPA to continue in the major
- Co-op credit cannot be used in this major
- Students must consult with a departmental advisor each semester before registering.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled courses taken from the UCF Theatre Department
- All BA Theatre Studies theatre students must participate, in some capacity, in one of the main-stage productions during a minimum of four three semesters in addition to the Technical Theatre Production Lab. One of the Participation credits must be as part of a run crew. The other two participation credits can be a combination of performance, shop assignments, run crews or front of house. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped from the major
- Courses designated in 1 (General Education Program) are usually completed in the first 90 hours
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

## 1. UCF General Education Program (36 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations                 | 9 hrs |
| B. Cultural and Historical Foundations       | 9 hrs |
| Select one course from 1.B.1 list            | 3 hrs |
| Select THE 2020 Survey of Theatre for Majors | 3 hrs |
| Select one course from 1.B.1 or 1.B.2 list   | 3 hrs |
| C. Mathematical Foundations                  | 6 hrs |
| Prefer MGF 1106 Finite Mathematics           | 3 hrs |
| (may substitute a higher level math)         |       |
| Select STA 1060C Statistics Using Excel      | 3 hrs |
| D. Social Foundations                        | 6 hrs |
| E. Science Foundations                       | 6 hrs |

## 2. Common Program Prerequisites (9 hrs)

- |            |                                       |       |
|------------|---------------------------------------|-------|
| THE 2020*  | Survey of Theatre for majors          | GEP   |
| THE 2304   | Script Analysis                       | 3 hrs |
| THE 2090L* | Theatre Participation – Management I  | 1 hr  |
| TPA 2290L* | Theatre Participation – Production I  | 1 hr  |
| TPP 2190*  | Theatre Participation – Performance I | 1 hr  |
| TPA 2201*  | Technical Theatre Production          | 2 hrs |
| TPA 2201   | Technical Theatre Production Lab      | 1 hr  |
- \*See Transfer Notes for possible substitutes

## 3. Core requirements (21 hrs)

- |           |                                  |       |
|-----------|----------------------------------|-------|
| TPP 2101  | Fundamentals of Acting I         | 3 hrs |
| THE 2304  | Script Analysis                  | CPP   |
| THE 3XXX  | Theatre History/ & Dram. Lit. I  | 3 hrs |
| THE 3XXX  | Theatre History/ & Dram. Lit. II | 3 hrs |
| THE 3XXX  | Theatre History & Dram. Lit. III | 3 hrs |
| TPP 2XXX  | Stage Voice/Speech               | 3 hrs |
| TPP 3310C | Directing I                      | 3 hrs |
| THE 4XXX  | Capstone                         | 3 hrs |

## 4. Restricted Electives (16 hrs)

- Select 16 hours from the following
- |            |   |       |
|------------|---|-------|
| THE 3230   | Commonality within Cultural Diversity Experienced through Theater | 3 hrs |
| THE 3082   | Theatre Careers   | 3 hrs |
| TPP 4143   | Acting Styles   | 3 hrs |
| TPP 3XXX   | Acting on Camera  | 3 hrs |
| TPA 3XXX   | Intro to Theatrical Design  | 3 hrs |
| TPP 4221 * | Auditioning   | 3 hrs |
| THE 3240   | Musical Theatre Survey  | 3 hrs |
| THE 4093L* | Theatre Participation-Management II                               | 1 hr  |
| TPA 4293L* | Theatre Participation-Production II                               | 1 hr  |
| TPP 4193*  | Theatre Participation-Performance II                              | 1 hr  |
| THE 5307*  | Contemporary Theatre  | 3 hrs |
| TPA 2248C* | Makeup/Technique  | 2 hrs |
| TPA 3043C  | Costumes, Architecture, and Décor, History I                      | 3 hrs |
| TPA 3044C  | Costumes, Architecture, and Décor History II                      | 3 hrs |
| TPA 3195   | Theatre Studio/Tech/Design  | 3 hrs |
| TPA 3197   | Summer Theatre Studio/Tech/Design                                 | 3 hrs |
| TPA 2XXX*  | Stage Management Basics   | 3 hrs |
| TPA 4400   | Theatre Management  | 3 hrs |

- |                        |   |          |
|------------------------|---|----------|
| TPP 3103               | Intermediate Acting                               | 3 hrs    |
| TPP 3197               | Summer Theatre/Performance                        | 3 hrs    |
| TPP 3952               | Studio Performance                                | 3 hrs    |
| TPP 4311*              | Advanced Directing                                | 3 hrs    |
| Any DAA or DAN         | courses with instructor and departmental approval | 2-8 hrs  |
| THE 3930*              | Independent Study                                 | 1-12 hrs |
| THE 4912*              | Undergraduate Research                            | 3-6 hrs  |
| Honors in the Major    | Directed Readings and Thesis*                     | 3-6 hrs  |
| Other THE, TPA, or TPP | courses as approved by the department             |          |
- \* requires instructor and 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 STA 1060C or Computer Science Course
- Minimum of 30 theatre credits must be completed in residency at UCF

## 6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

## 7. Required Minor (18 hours minimum)

Theatre Studies BA students must complete a minor of at least 18 hours. See discipline for Minor requirements, information, and changes. University upper division credit hour requirements must be met. Students are discouraged from taking excess hours and should consider total credit hours required when selecting a minor. Students are free to pursue any minor open to them, but are encouraged to participate in the department's Associated Minor program which provides additional career/advising support targeted at specific career paths. Please see the departmental handbook for a more complete description of the program and a list of Associated Minors. Participation in an Associated Minor must be approved after interview with the Area Coordinator of BA Theatre Studies.

## 8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

## Total Semester Hours Required

**120 hours**

**Related Programs:** Art, Film, Music, Theatre BFA

**Related Minors:** Art, Music, Film, Theatre, Dance

## Transfer Notes:

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and may still need to be taken.
- THE 2304XXX (Script Analysis): may use THE 2300 or THE 3305
- THE 2090L: may use THE 2925
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1110 or THE 4093L or TPA 4293

- TPA 2201: may use TPA 2200 or TPA 2210

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (\*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

## THEATRE - MUSICAL THEATRE TRACK (B.F.A.)

**College of Arts and Humanities**

**Department of Theatre, UTC 180; 407-823-2862**

**<http://www.theatre.ucf.edu>**

**E-mail: [eweaver@mail.ucf.edu](mailto:eweaver@mail.ucf.edu)**

Earl Weaver, 407-823-3638

The Bachelor of Fine Arts Track in Musical Theatre has been developed to serve those students interested in a career in the entertainment industry and the musical theatre stage. It is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre.

Because of its geographic location, UCF is a top choice for students interested in musical theatre. Walt Disney World, Universal Studios, and the budding expansion of the arts in Central Florida make it necessary for students to receive advanced studies in acting, musical theatre voice, and dance.

Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

**Admission Requirements**

- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become majors via an interview and audition. For complete information, contact the Department of Theatre or visit the audition site online at [www.theatre.ucf.edu](http://www.theatre.ucf.edu).
- A candidate must present an audition consisting of one monologue and two musical selections. The entire audition should last no more than three minutes. An accompanist will be provided. Recorded accompaniment is not accepted. Candidates must also participate in a dance audition. Visit [www.theatre.ucf.edu](http://www.theatre.ucf.edu) for details.
- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of interview

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major
- Theatre grades of less than "C" (2.0) will not be counted
- Continuation in the BFA program requires a positive annual BFA Review.
- Co-op cannot be used in this major
- Students must consult with a departmental advisor every semester before registration
- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department
- Prior to graduation, all BFA Musical Theatre majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be in a shop or front of house position.
- All BFA Musical Theatre majors are required to audition for all Fall and Spring productions and must accept the roles assigned
- Due to its conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the program is not designed for transfer students, transfer students may audition

and may be admitted, but they should consult with the Department Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study.

We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/ Community College System—

- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Courses designated 1 (General Education Program) are taken throughout all four years.

**1. UCF General Education Program (36 hrs)**

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select one course from 1.B.1 list	3 hrs
Select THE 2020	3 hrs
Select one course from 1.B.1 or 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

**2. Common Program Prerequisites (9 hrs)**

THE 2020*	Survey of Theatre for majors	GEP
THE 2304*	Script Analysis	3 hrs
THE 2909L*	Theatre Participation – Management I	1 hr
TPA 2290L*	Theatre Participation – Production I	1 hr
TPP 2190*	Theatre Participation – Performance I	1 hr
TPA 2201*	Technical Theatre Production	2 hrs
TPA 2201	Technical Theatre Production Lab	1 hr

\*See Transfer Notes for possible substitutes

**3. Specialization: Lower Division (22 hrs)**

THE 2304*	Script Analysis	CPP
MUT 1004	Fundamentals of Music I	3 hrs
MUT 1111	Music Theory 1A	3 hrs
TPP 2110C	Acting I - Introduction	3 hrs
TPP 2170C	Acting II - The Actor Prepares	3 hrs
DAA 2200C	Ballet I	2 hrs
DAA 2201C	Ballet II	2 hrs
DAA 2570C	Jazz Dance I	2 hrs
DAA 2571C	Jazz Dance II	2 hrs
DAA 2520C	Tap Dance I	2 hrs
TPA 2248C	Make-up Techniques	2 hrs

**4. Specialization: Upper Division (56 hrs)**

TPP 3172C	Acting III - Building the Character	3 hrs
TPP 4140C	Acting IV – Creating the Role	3 hrs
TPP 3250	Musical Theatre Acting Perf I	3 hrs
TPP 3252	Musical Theatre Acting Perf II	3 hrs
THE 4244	Musical Theatre History I	3 hrs
THE 4245	Musical Theatre History II	3 hrs
TPP 3223	Theatre Careers for Performance	3 hrs
THE 3XXX	Theatre History and Dram. Lit I	3 hrs
THE 3XXX	Theatre History and Dram. Lit II	3 hrs
TPP 3310C	Directing I	3 hrs
TPP 4193	Theatre Participation – Performance II	1 hr
TPP 3257	Musical Theatre Voice I	2 hrs
TPP 3258	Musical Theatre Voice II	2 hrs
TPP 4259	Musical Theatre Voice III	2 hrs
TPP 4923	Musical Theatre Voice IV	2 hrs
TPP 4xxxC	Musical Theatre Voice V	2 hrs
TPP 4xxxC	Musical Theatre Voice VI	2 hrs
TPP 4XXX	Musical Theatre Voice VII	2 hrs
TPP 4XXX	Theatre Capstone	3 hrs
TPP 4940L	Theatre Internship	6 hrs

**4A. Movement Electives (2 hrs)**

TPP 4531 C	Period Movement	2 hrs
TPP 3512C	Stage Combat	2 hrs
Any DAA or DAN courses not already required and with departmental approval		

**4B. Restricted Electives (4 hrs)**

Chosen from the following		
TPP 3730C	Voice Production IV – Study of Stage Dialects	2 hrs
TPP 4142C	Acting V - Verse	3 hrs
TPP 4265C	Acting VI – Acting for TV/Film	3 hrs
THE 3230	Commonality within Cultural Diversity Experienced through Theater	3 hrs
THE 5307*	Contemporary Theatre	3 hrs

## UCF Degree Programs

TPA 3197*	Summer Theatre Studio/Tech/Design	3 hrs
TPA 3195*	Theatre Studio/Tech/Design	3 hrs
TPP 3197*	Summer Theatre Perform.	3 hrs
TPP 3952*	Studio Performance	3 hrs
TPP 4143C	Acting Styles	3 hrs
TPA 2XXX*	Stage Management Basics	3 hrs
TPA 4400	Theatre Management	3 hrs
TPA 3043C	Costumes, Architecture and Décor History I	3 hrs
TPA 3044C	Costumes, Architecture and Décor History II	3 hrs
TPP 4221	Auditioning	3 hrs
THE 3XXX	Theatre History and Dramatic Literature III	3 hrs
THE 3905*	Independent Study	1-9 hrs
TPP 4311*	Advanced Directing	3 hrs
THE 4093L	Theatre Participation – Management 2	1 hr
TPA 4293	Theatre Participation – Production 2	1 hr
TPP 4193	Theatre Participation – Performance 2	1 hr
THE 4912*	Undergraduate Research	3-6 hrs
Honors in the Major Directed Readings and Thesis*		3-6 hrs
Other THE, TPA, TPP, DAA or DAN courses not already required and as approved by the department		
*requires instructor and departmental approval in advance		

### 5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Theatre course
- Maintain a ‘B’ Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Minimum of 60 theatre credits must be completed in residency at UCF
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards your total theatre credits.
- Computer Competency met by STA 1060C or computer science course

### 6. Foreign Language Requirements

(0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:**

none

### 7. 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
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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 Studies BA

**Related Minors:** Music, Film, Theatre, Dance

#### Transfer Notes:

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
  - Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
  - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
  - THE 2304: may use THE 2300
  - TPA 2290L: may use TPA 1290
  - TPP 2190: may use TPP 1190
  - TPA 2201: may use TPA 2200 or TPA 2210





# MINORS AND CERTIFICATES

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

## Minors

Accounting  
Aerospace Studies  
African - American Studies  
Aging Studies  
American Humanics  
American Sign Language  
American Studies  
Anthropology  
Anthropology in Multicultural Studies  
Art History  
Art - Studio  
Asian Studies  
Astronomy  
Biology  
Business  
Chemistry  
Coaching  
Cognitive Sciences  
Communication Sciences & Disorders  
Community Arts - PAVE  
Computer Science  
Criminal Justice  
Dance  
Deaf Studies  
Digital Media  
Early Childhood Education  
e-Business  
Economics  
Emergency Management & Homeland Security  
English - Creative Writing  
English - Linguistics  
English - Literature  
English - Technical Writing and Editing  
English - Writing  
Environmental Studies  
European Studies  
Exceptional Education  
Film - Cinema Studies  
Fitness Training  
Finance  
French  
German  
Health Information Management  
Health Sciences  
Health Services Administration  
History  
Hospitality Management  
Humanities  
Information Technology  
International and Global Studies

International Business  
Interpersonal Communication  
Intelligent Robot Systems - Interdisciplinary  
Italian  
Judaic Studies  
Latin American Area Studies  
Legal Studies  
Magazine Journalism  
Management Information Systems  
Mass Communication  
Mathematics  
Middle Eastern Studies  
Military Science  
Molecular Biology and Microbiology  
Music  
North American Indian Studies  
Organizational Communication  
Philosophy  
Philosophy, Religion and Popular Culture  
Physics  
Political Science  
Political Science/Prelaw  
Psychology  
Public Administration  
Real Estate  
Religious Studies  
Secure Computing and Networks  
Social Sciences - Interdisciplinary  
Sociology  
Space Studies  
Spanish  
Sport Business Management  
Statistics  
Technical Education and Industry Training  
Technology and Society  
Theatre - General  
Urban and Regional Planning  
Women's Studies  
World Comparative Studies

## Certificates

Addictions Certificate  
Aging Studies Certificate  
American Sign Language Certificate  
Behavioral Forensics Certificate  
Children's Services Certificate  
Crime Analysis and Crime Mapping Certificate  
Crime Scene Investigation Certificate  
Criminal Profiling Certificate  
Cultural Tourism Certificate  
Digital Media Certificate

Entertainment Marketing Certificate  
Finance: Banking Certificate  
Finance: Corporate Finance Certificate  
Finance: Investments Certificate  
Jazz Studies Certificate  
Judaic Studies Certificate  
Language Development and Disorders Certificate  
Marketing: Selling and Sales Management Certificate  
Marketing: Retailing Management Certificate  
Marketing: e-Marketing Certificate  
Marketing: Sport Marketing Management Certificate  
Marketing: Healthcare Marketing Certificate  
Marketing: Services Marketing Certificate  
Marketing: Entertainment Marketing Certificate  
Nonprofit Management Certificate  
Real Estate: Real Estate Brokerage Certificate  
Real Estate: Real Estate Appraisal Certificate  
Real Estate: Mortgage Brokerage Certificate  
Security Management Certificate  
Service-Learning Certificate  
Translation and Interpretation Certificate  
Women's Studies Certificate

## Additional UCF Programs

Foreign Study Abroad Program:  
Dominica  
France  
Germany  
Italy  
Japan  
South Africa  
Spain  
English Study Abroad Program:  
Mexico  
Scotland

**ACCOUNTING:**

**Minor for Business and Non-Business Majors**

**College of Business Administration**

**School of Accounting, BA 437**

(407) 823-2871

**Credit Hour Requirements 21 hours**

Required Courses (9 hrs)

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs

Select one of the following (may not be counted as an elective if selected as a required course):

ACG 3131	Financial Accounting Concepts and Analysis	3 hrs
ACG 3361	Intermediate Managerial Accounting	3 hrs

Restricted Electives (12 hrs)

Select four from the following (at least two courses must have either an ACG or TAX prefix)

ACG 3131	Financial Accounting Concepts and Analysis	3 hrs
ACG 3361	Intermediate Managerial Accounting	3 hrs
ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
ACG 4401C	Accounting Information Systems	3 hrs
ACG 4651	Auditing	3 hrs
ACG 4671	Internal Auditing	3 hrs
ACG 4932	Approved Special Topics Courses in Accounting	3 hrs
TAX 4001	Taxation of Business Entities and Transactions	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 4453	Financial Models	3 hrs
ISM 3253	MIS Techniques	3 hrs
ISM4212	Database Management Systems	3 hrs

**Other Requirements**

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

**AEROSPACE STUDIES: Minor**

**College of Engineering and Computer Science**

**Air Force ROTC, TR 501 103**

Col. William G. Palmby, 407-823-1247

**Credit Hour Requirements**

**16 hrs**

Required Courses (16 hr)

AFR 1101C	The Air Force Today I	1 hr
AFR 1111C	The Air Force Today II	1 hr
AFR 2130C	The Development of Air Power I	1 hr
AFR 2131C	The Development of Air Power II	1 hr
AFR 3220C	Air Force Leadership and Management I	3 hrs
AFR 3230C	Air Force Leadership and Management II	3 hrs
AFR 4201C	Nat Scrtly Affairs & Prep for Active Duty I	3 hrs
AFR 4210C	Nat Scrtly Affairs & Prep for Active Duty II	3 hrs

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**AFRICAN-AMERICAN STUDIES: Minor**

**College of Arts and Humanities**

**African American Studies Program, CNH 201G**

<http://www.cas.ucf.edu/africanamericanstudies>

J. Stephenson, 407-823-0026

The African American Studies minor is designed to complement a student's major area of study. The minor requires a core of African American Studies courses as well as a selection of directed electives in Fine Arts, History, English, Modern Languages, Music, Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

**Credit hour Requirements**

**18 hours**

Required Courses (6 hrs)		
AFA 3104	The African American Experience	3 hrs
AMH 3571	Black American History I	3 hrs

Restricted Electives (12 hrs)

AFA 3102	Introductory Perspectives on African American Studies
AFA 2300	African American Music
AFA 3955	Study Abroad in the Caribbean
AMH 3572	Black American History II
AML 3614	Topics in African-American Literature
AML 3615	Harlem, Haiti, & Havana
ARH 3520	African Art
INR 3253	International Politics of Africa
FIL 3412	Black Cinema
LAH 3470	History of the Caribbean
LAS 4023	Afr Caribbean Experience
LIT 3192	Caribbean Literature
MUL 2016	Evolution of Jazz
POS 4622	Politics & Civil Rights
PUP 3314	Minorities in American Politics
SOP 3724	The Psychology of Racial Prejudice
SYD 3700	Race and Ethnic Minorities in the U.S.

Additional courses may be used only with the prior permission of the program Director.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without the approval of the program coordinator.

**AGING STUDIES: Minor**

**College of Health and Public Affairs**

**School of Social Work, HPA1 204**

BSW Coordinator, HPA1 204, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers an eighteen-hour interdisciplinary program leading to a Minor in Aging Studies. The Minor is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. Also all students must contact the coordinator for planning their internship.

**Credit Hour Requirements**

**18 hours**

Required Courses (3 hrs)

GEY 3001	Gerontology: Interdisciplinary Overview	3 hrs
----------	---	-------

Required Internship: 120 hours

**Select one:**

SOW 4510	Field Education	9 hrs
HSA 4941	Internship	3 hrs
PSY 3951	Internship	3 hrs
SYP 4941	Internship	3 hrs

Electives (12 hrs)

Students select **four** additional courses from the following: A maximum of **two** courses in their College and at least **two** courses must be outside their college. .

**College of Health and Public Affairs**

HSA 4220	Long Term Care	3 hrs
HSA 3222	Long Term Administration	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
NUR 4286	Gerontologic Nursing	3 hrs
PLA 4530	Legal Issues of the Elderly	3 hrs
SOW 4645	Social Services for the Elderly	3 hrs

**College of Arts and Sciences**

DEP 3464	Psychology of Aging	3 hrs
SYP 4730	Sociology of Aging	3 hrs
GEY 3930/	Women and Aging	3 hrs
SYP 3930		
LIT 3930	Literature of Aging	3 hrs
SYP 4734	Minority Aging	3 hrs

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor
- Grades less than "C-" (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

## Minors

- 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](mailto: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 (18 hours) Required Courses (6 hrs)

PAD 3930	American Humanics Human Service Workshop (1 credit repeated three semesters)	3 hrs
PAD 4948	American Humanics Internship	3 hrs

Internships within other programs may be accepted with prior approval of American Humanics advisor.

Students can earn the remaining 12 credit hours by pursuing either the Generalist Emphasis or the Public Affairs Emphasis. The requirements for each are as follows:

#### Generalist Emphasis

##### Restricted Electives (12 hours)

Choose at least one course from each of the following four groups.

##### Group I: General Nonprofit Management, Volunteerism and Human Development 3 hrs

EDG 4941	Directed Field Experience
PAD 4144	Nonprofit Organizations
PAD 4148	Volunteer Management
*SOW 3203	Social Welfare and Community Resources
*SOW 3104	Assessing I - Human Development
DEP 2004	Developmental Psychology
PPE 3003	Personality Theory
DEP 3464	Psychology of Aging

##### Group II: Planning & Evaluation and Human Resource Development 3 hrs

PAD 4144	Nonprofit Organizations
PAD 4153	Strategic Planning & Implementation
PAD 4325	Program Evaluation for the Public and Nonprofit Organizations
PAD 4414	Human Resource Management
*SOW 3401	Social Work Research Methods
MAN 3025	Management of Organizations
MAN 3301	Human Resource Management
MAN 4101	Human Relations in Management
MAN 4320	Human Resources, Recruitment & Selection

##### Group III: Communication & Marketing 3 hrs

PAD 4144	Nonprofit Organizations
*SOW 3352	Practice II: Interpersonal Skills
COM 3110	Business & Professional Communications
GEB 3031	The Cornerstone Course
MAR 3023	Marketing
MAR 3641	Marketing Intelligence
MAR 4803	Marketing Management

##### Group IV: Nonprofit Accounting & Financial Management and Fund Raising Principles & Practices. 3 hrs

PAD 4144	Nonprofit Organizations
ACG 2021	Financial Accounting
ACG 2071	Managerial Accounting
PAD 5850	Grant and Contract Management
PAD 4204	Fiscal Management
PAD 4131	Public Sector Project Management
PAD 4147	Resource Development in the Nonprofit Sector

Or

#### Public Affairs Emphasis

##### Restricted Electives Choose at least two from the following (6 credit hours)

PAD 4131	Public Sector Project Management
PAD 4144	Non-Profit Organizations
PAD 4147	Resource Development in the Nonprofit Sector
PAD 4204	Fiscal Management
PAD 4325	Program Evaluation for the Public and Non-Profit Organizations

##### Restricted Electives Choose at least two from the following (6 credit hours)

PAD 4148	Volunteer Management
PAD 4153	Planning and Improvement for Public Organizations
PAD 4223	Public Budgeting

PAD 4253 Community and Economic Development  
\* open only to SOW majors

#### Other Requirements

- Enrollment in American Humanics Certificate Program through AH program office.
- Attendance at one national American Humanics Management Institute (additional fees)
- Membership in UCF American Humanics Student Association

### AMERICAN SIGN LANGUAGE: Minor College of Health and Public Affairs Department of Communication Sciences and Disorders <http://www.cohpa.ucf.edu/comdis>

HPA II, Room 101

The American Sign Language Minor addresses a growing interest in American Sign Language (ASL) as a minority and indigenous language in the United States. Through the minor students not only acquire a second language that they may use to communicate with the deaf community, but they also learn a non-Indo-European linguistic structure. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in interpersonal and organizational communication, general and special education, communicative disorders, criminal justice, the health professions, and social work. Additionally, a minor in American Sign Language will serve as a valuable confirmation for employers and graduate schools of a student's specialized knowledge of this language.

#### Credit Hour Requirements 22 hours

Required Courses		
SPA 4612	Introduction to American Sign Language	4 hrs
SPA 4613	Intermediate American Sign Language	4 hrs
SPA 4614C	American Sign Language III	4 hrs
SPA 4615	American Sign Language IV	4 hrs
SPA 4617	Signed Language Linguistics	3 hrs

#### Choose One of the Following:

SPA 2631	Issues in Deafness	3 hrs
SPA 3632	Communication Disorders in the Deaf	3 hrs
SPA****	Educational Implications of Deafness	3 hrs

#### Other Requirements

- A minimum of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the minor.
- At least 12 hours used in the minor must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the minor.

### AMERICAN STUDIES: Minor College of Arts and Humanities [http://www.cas.ucf.edu/liberal\\_studies](http://www.cas.ucf.edu/liberal_studies) E-mail: [stebbins@mail.ucf.edu](mailto:stebbins@mail.ucf.edu) 407-823-3253

#### Credit Hour Requirements 21 hours

Required Courses (9 hrs)

Select one course in each of the three categories below

##### Literature and Humanities

AML 3031	American Literature I
AML 4101	American Novel
AML 4261	Literature of the South
AML 3682	Ethnic Literature in America

##### Social Sciences

POS 3413	The American Presidency
POT 3204	American Political Thought
SYD 3700	Race and Ethnic Minorities in the U.S.
SYP 3630	Sociology of Popular Culture

##### History

AMH 3423	Florida History 1845-present
AMH 3561	Women in American History I
AMH 4110	Colonial America, 1607-1763
AMH 4130	The Age of the American Revolution
AMH 4311	American Culture I

AMH 4313 American Culture II  
 Restricted Electives (12 hrs)  
 Courses chosen from courses approved by the Liberal Studies advisors. A list can be obtained by meeting with an advisor to plan your course of study.

**Other Requirements**

- Students must earn at least a “C” (2.0) in each course used to satisfy the minor.
- At least eighteen credit hours must be earned in upper level credits.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**ANTHROPOLOGY: Minor**

**College of Sciences**  
**Department of Sociology & Anthropology, PH 403**

[http://cas.ucf.edu/soc\\_anthro](http://cas.ucf.edu/soc_anthro)

[anthropology@ucf.edu](mailto:anthropology@ucf.edu)

Contact: A. Chase, 407-823-2227

The Anthropology minor develops a holistic understanding of the past and present human condition. Four different concentrations are delimited within the Anthropology minor.

**Credit Hour Requirements 18 hours**

**A. Concentration in General Anthropology**

The following 2000 level courses must be taken (12 hrs)

- ANT 2000 General Anthropology
- ANT 2100 Archaeology & Rise of Human Culture
- ANT 2410 Cultural Anthropology
- ANT 2511 The Human Species

Select two upper level (3000-5000) courses in Anthropology (6 hrs)

**B. Concentration in Archaeology**

The following 2000 level courses must be taken: (6 hrs)

- ANT 2000 General Anthropology
- ANT 2100 Archaeology & Rise of Human Culture

Select from the following (12 hrs)

- ANT 4101 Archaeological Sciences
- ANT3158 Florida Archaeology
- ANT 3115 Archaeological Method and Theory
- ANT 3142 Old World Prehistory
- ANT 3145 Archaeology of Complex Societies
- ANT 3163 Mesoamerican Archaeology
- ANT 3164 Ancient Incas
- ANT 3168 Maya Archaeology
- ANT 4184 Mortuary Archaeology
- ANT 3358 Life and Death in Ancient Egypt
- ANT 4144 Prehistory of North America
- ANT 4153 North American Archaeology
- ANT 4180C Seminar in Laboratory Analysis (or three 1 hr labs)
- ANT 4824 Advanced Archaeological Field Work
- ANG 5165 Field Research In Maya Studies
- ANG 5166 Problems of Maya Archaeology
- ANG 5167 Maya Hieroglyphs
- ANG 5228 Maya Iconography

**C. Concentration in Physical Anthropology**

The following 2000 level courses must be taken: (6 hrs)

- ANT 2000 General Anthropology
- ANT 2511 The Human Species

Take four of the following courses: (12 hrs)

- ANT 4184 Mortuary Archaeology
- ANT 4467 Nutritional Anthropology (or ANG 5467)
- ANT 3541 Biobehavioral Anthropology
- ANT 3550 Primatology
- ANT 4521C Forensic Anthropology
- ANT 4462 Medical Anthropology
- ANT 4516 Human Biological Diversity
- ANT 4525C Human Osteology
- ANT 4528C Advanced Forensic Anthropology
- ANT 4586 Human Origins

**D. Concentration in Cultural Anthropology**

The following 2000 level courses must be taken: (6 hrs)

- ANT 2000 General Anthropology
- ANT 2410 Cultural Anthropology

Take four of the following courses: (12 hrs)

- ANT 3212 Peoples of the World
- ANT 3241 Magic, Ritual, and Belief
- ANT 3245 Native American Religions
- ANT 3262 Rural Society
- ANT 3273 Law and Culture
- ANT 3302 Sex, Gender and Culture
- ANT 3311 Indians of the SE US
- ANT 3312 Ethnology of North Amer Indians
- ANT 3313 Indians of N Amer High Plains
- ANT 3314 Indians of the Northeast Woodlands
- ANT 3316 Black/Seminole Relations
- ANT 3318 Indians of the Northwest Coast
- ANT 43320 Indians of the Southwest
- ANT3164 The Incas
- ANT 3332 Peoples and Culture of Latin America
- ANT 4438 Anthropology of Tourism
- ANT3701 Applied Anthropology
- ANT 4702 Culture, Power, and Development
- ANT 4802 Ethnographic Field Methods
- ANT 3363 Anthropology of Japan
- ANT 3640 Language and Culture
- ANT 4340 Caribbean Cultures
- ANT 3319 The Anthropology of Diaspora
- ANT 4034 History of Anthropological Thought
- ANT 4266 Economic Anthropology
- ANT 4308 Gender Issues in Latin America
- ANT 4352 African Societies and Cultures
- ANT 4354 Postcolonial Africa
- 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

**ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor**

**College of Sciences**

**Department of Sociology & Anthropology, PH 403**

[http://www.cas.ucf.edu/soc\\_anthro](http://www.cas.ucf.edu/soc_anthro)

[anthropology@ucf.edu](mailto:anthropology@ucf.edu)

Contact: A. Chase 407-823-2227

This minor develops a more sophisticated understanding of the recent dilemmas of Hispanic, Native American, and Pacific Rim cultures, sex, and gender controversies in America and other societies, and the theoretical and practical issues of modern applied anthropology. The minor is especially appropriate for students majoring in political science, international business, or for any student seeking an enhanced understanding of contemporary cultural relations.

**Credit Hour Requirements 18 hours**  
**Required Course (3 hrs)**

Select one of the following:

- ANT 2000 General Anthropology
- ANT 2410 Cultural Anthropology

**Restricted Electives (15 hrs)**

Select five of the following. Substitutions require prior consent of the Anthropology Coordinator.

- ANT 3164 The Incas
- ANT 3212 Peoples of the World
- ANT 3241 Magic, Ritual, and Belief
- ANT 3245 Native American Religions
- ANT 3302 Sex, Gender and Culture
- ANT 3312 Ethnology of North Amer Indians
- ANT 3332 People and Cultures of Latin Amer
- ANT 3640 Language and Culture
- ANT 4340 Caribbean Cultures
- ANT 3316 Black/Seminole Relations
- ANT 3319 The Anthropology of Diaspora
- ANT 4438 Anthropology of Tourism
- ANT 4467 Nutritional Anthropology
- ANT 3701 Applied Anthropology
- ANT 4702 Culture, Power, and Development
- ANT 4266 Economic Anthropology
- ANT 4308 Gender Issues in Latin America
- ANT 4516 Human Biological Diversity
- 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

## Minors

the minor.

- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

### ART HISTORY: Minor

College of Arts and Humanities

Art Department, VAB 117

<http://www.art.ucf.edu/>

art@ucf.edu

J. Chavda, 407-823-2676

#### Credit Hour Requirements

Required Courses

ARH 2050	The History of Art I	3 hrs
ARH 2051	The History of Art II	3 hrs
ARH 4310	Italian Renaissance Art	3 hrs
ARH 4430	19th Century Art	3 hrs
ARH 4450	20th Century Art	3 hrs

27 hours

(15 hrs)

#### Non-western Course Requirement

Select from the following:

ARH 4545	Art of India	
ARH 3520	African Art	
ARH 4655	Meso American Art	

(3 hrs)

#### Restricted Elective:

ARH 4350	Baroque Art	
ARH 4200	Medieval Art	
ARH 4892	Women in Art	
ARH 4800	Theory and Criticism of the Visual Arts	

(3 hrs)

#### 6 hours of electives

(6 hrs)

Two additional ARH 3XXX-4XXX courses

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least two of the required courses must be regularly scheduled 3000- 4000 level courses in a single area of specialization in the Art Department.
- 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 Humanities

Art Department, VAB 117

<http://www.art.ucf.edu/>

art@ucf.edu

J. Chavda, 407-823-2676

#### Credit Hour Requirements

Required Courses

ARH 2050	History of Western Art I	3 hrs
ARH 2051	History of Western Art II	3 hrs
ART 2201C	Design Fundamentals 2-D	3 hrs
ART 2203C	Design Fundamentals 3-D	3 hrs
ART 2300C	Drawing Fundamentals I	3 hrs
ART 2301C	Drawing Fundamentals II	3 hrs

24 hours

(18 hrs)

#### Restricted Upper Division Courses

(6 hrs)

Six semester hours of studio art in one area of specialization at the 3000-4000 level

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least six of the required hours must be regularly scheduled 3000- 4000 level courses in one area of specialization and taken at UCF.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

### ASIAN STUDIES: Minor

College of Arts and Humanities

<http://www.cas.ucf.edu/>

E-mail: stebbins@mail.ucf.edu

An interdisciplinary minor in which several UCF departments participate in order to offer students a basic and well-rounded background in the field. Courses are to be selected in consultation with a departmental advisor.

#### Credit Hour Requirements

21 hours

Required Course

(3 hrs)

HUM 3401 Asian Humanities

#### Restricted Electives

(18 hrs)

Approved courses (see department for listing)

#### Foreign Language Requirement

(0-8 hrs)

One year or the equivalent proficiency examination. Students taking foreign language classes must complete at least six hours in the sequence chosen (e.g. Chinese, Japanese).

#### Other Requirements

- Students must earn at least a "C" (2.0) in each course used to satisfy the minor.
- At least fifteen credits hours must be earned in upper level credits.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used in the minor without prior approval by the director.

### ASTRONOMY: Minor

College of Sciences

Department of Physics, MAP 310

E-mail: [physics@ucf.edu](mailto:physics@ucf.edu)

Contact: A Physics Advisor, 407-823-2325

#### Credit Hour Requirements

20 hrs

Required Course

(18 hrs)

PHY 2048	Physics for Engineers & Scientists I	3 hrs
AST 2002	Introductory Astronomy	3 hrs
AST 3722C	Observational Astronomy	3 hrs
AST 3110	Solar System Astronomy	3 hrs
AST 3211	Stellar Astrophysics	3 hrs
AST 3402	Galaxies and Cosmology	3 hrs

#### Restricted Electives

(2 hrs)

Select either:

PHY 2049	Physics for Engineers & Scientists II	3 hrs
PHY 2048L	Physics for Engineers and Scientists I Lab	1 hr
AST 2002L	Introductory Astronomy Lab	1 hr

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) 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.

### BIOLOGY: Minor

College of Sciences

Biology Department, BL 301

<http://www.cas.ucf.edu/biology>

E-mail: [biology@ucf.edu](mailto:biology@ucf.edu)

Contact: F. Logiudice, 407-823-2141

#### Credit Hour Requirements

31 hrs

Required Courses

(31 hrs)

BSC 2010C	Biology I	4 hrs
BSC 2011C	Biology II	4 hrs
CHM 2045C	Chemistry Fundamentals I	4 hrs
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2210	Organic Chemistry	3 hrs

PCB 3023	Molecular Cell Biology	3 hrs
PCB 3044	Principles of Ecology	3 hrs
PCB 3063	Genetics	3 hrs
PCB 4683	Population Biology and Evolution	4 hrs

CHS 4200	Concepts in Industrial Chemistry
CHM 5235	Applied Molecular Spectroscopy
CHM 5450	Polymer Chemistry
CHS 4615	Environmental Chemistry

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 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.
- Not open to Biology or Biology Preprofessional 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 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.

**BUSINESS: Minor for Non-Business Majors**

**College of Business Administration, BA2-101**

B. Moore, 407-823-5256, bmoore@bus.ucf.edu

**Credit Hour Requirements**

**24 hrs**

Required Accounting Course(s) (6 hrs)

ACG 2021 Principles of Financial Accounting and

ACG 2071 Principles of Managerial Accounting

Required Courses

(15 hrs)

ECO 2013 Macroeconomics

ECO 2023 Microeconomics

FIN 3403 Business Finance

MAN 3025 Management of Organizations

MAR 3023 Marketing

Restricted Elective

(3 hrs)

A 3000 level business core course

(GEB 3004 may not be used)

**Other Requirements**

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor and an overall GPA in the minor of 2.0 is required.
- Grades below “C” (2.0) are not accepted.
- At least 12 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**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](mailto:higginbp@mail.ucf.edu)

The coaching minor is designed to provide a limited, but substantive experience in the field of coaching. The state of Florida requires a coaching endorsement, which includes nine hours (Human Injuries, Coaching Theory, and a Coaching Specialization course), for all persons certified to teach. This minor is appropriate for those students who plan to coach and/or are seeking a career in the fields of Physical Education and sport. The following courses will give the student a coaching endorsement as well as strengthen the marketability of the student’s major program. This Minor is available for students in the 2001 Catalog Year and beyond.

**Credit Hour Requirements**

**18 hours**

Required Courses

(18 hrs)

PET 2622C Human Injuries

3 hrs

PET3765 Coaching Theory

3 hrs

PET3493 Sports Ethics

3 hrs

PET4215 Motivational Aspects of Athletic Performance

3 hrs

PET 4763 Coaching Methods and Principles

3 hrs

Select one course from the following:

PEO2624 Coaching Football or

3 hrs

PEO3644 Coaching Basketball or

PEO3324 Coaching Volleyball

\*If the student has completed this course at a community college it can be transferred into the program.

**Other Requirements**

- An overall GPA of 2.0 is required to satisfy the minor.
- No grades below “C-” (1.75) and no “S” grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No TSD or Military credit may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**CHEMISTRY: Minor**

**College of Sciences**

**Department of Chemistry, CH 117**

<http://www.cas.ucf.edu/chemistry>

E-mail: [chemistry@ucf.edu](mailto:chemistry@ucf.edu)

Contact: Any Chemistry advisor

**Credit Hour Requirements**

**28 hrs**

Required Courses

(21 hrs)

CHM 2045C Chemistry Fundamentals I

4 hrs

CHM 2046 Chemistry Fundamentals II

3 hrs

CHM 2046L Chemistry Fundamentals Laboratory

1 hr

CHM 2210 Organic Chemistry I

3 hrs

CHM 2211 Organic Chemistry II

3 hrs

CHM 2211L Organic Laboratory Techniques I

2 hrs

CHM 31020 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 3530C Forensic Analysis of Controlled Substances

CHM 3411L Physical Chemistry Laboratory

CHM 5451C Polymer Chemistry Laboratory

Group II:

BCH 4053 Biochemistry I

BCH 4054 Biochemistry II

CHM 3410 Physical Chemistry I

CHM 3411 Physical Chemistry II

CHM 3422 Applied Physical Chemistry

CHM 5225 Advanced Organic Chemistry I

CHM 4220 Organic Chemistry III

**COGNITIVE SCIENCES: Minor**

**College of Arts and Humanities**

**Philosophy Department, CNH 411**

<http://www.cas.ucf.edu/philosophy/>

E-mail: [philosophy@ucf.edu](mailto:philosophy@ucf.edu)

Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

The cognitive sciences minor provides an interdisciplinary approach to the study of mind, brain, and cognition, broadly construed. It complements the background of students intending to pursue graduate degrees in cognitive science, computer science, philosophy, psychology, biology, neuroscience, and medicine, as well as students with more immediate career goals in fields such as neural network modeling, neuroimaging, information technology, clinical or counseling psychology, biotechnology, and others.

**Credit Hour Requirements**

**21 hrs**

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

## Minors

### Neuroscience

- PSB 3002 Physiological Psychology (PR: PSY 2012)
- PSB 4240C Neuropsychology (PR: PSB 3002)
- ZOO 744 Neurobiology (PR: BSC 2010C)
- PSB 4422 Brainwaves and Behavior (PR: PSB 3002)

### Philosophy

- PHI 3320 Philosophy of Mind (PR: PHI 2010 or C.I.)
- PHI 3323 Minds and Machines (PR: PHI 2010 or C.I.)
- PHI 4341 Ways of Knowing (PR: PHI 2010)
- PHI 3451 Philosophy of Psychology (PR: Junior or C.I.)
- PHI 4400 Philosophy of Science

### Psychology

- EXP 3604C Cognitive Psychology (PR: PSY 2012)
- EXP 4507C Advanced Human Memory and Cognition (PR: PSY 3213C and EXP 3604C)
- EXP 3204C Perception (PR: PSY 2012, PSY 3213C)

### Computer Science and Information Technology

- CAP 4453 Robot Vision (PR: COP 3530C and MAC 2312, or C.I.)
- CAP 4630 Artificial Intelligence (PR: COP 3530C)
- EEL 3520 Information Theory (PR: MAC 2147 or any calculus course; not open to EE or CpE majors)
- EEL 3552C Signal Analysis & Communications (PR: EEL 3004)

### Language and Linguistics

- LIN 3010 Principles of Linguistics (PR: ENC 1102)
- LIN 3716 Language Development: Birth Through 8 Years (PR: DEP2004)
- LIN 3717 Language Development: 9-18 Years (PR: LIN 3716)
- LIN 3640 Psychology of Oral Communication

### Restricted Electives

(6 hrs)

- ANT 3541 Biobehavioral Anthropology
  - ANT 3550 Primatology (PR: ANT 2511 or C.I.)
  - ANT 3640 Language and Culture (PR: Sophomore standing)
  - ANT 4586 Human Origins (PR: ANT 2511)
  - CAP 4630 Introduction to Artificial Intelligence (PR: COP 3530C)
  - COP 4520 Concepts of Parallel Distributed Processing (PR: COP 3530C and COP 3402C)
  - CAP 5015 Multimedia Compression on the Internet (PR: senior or graduate student)
  - CAP 5415 Computer Vision (PR: COP 3530C)
  - CAP 5512 Evolutionary Computing
  - COP 4520 Concepts of Parallel and Distributed Processing (PR: COP 3530C and COP 3402C)
  - LIN 4711 Language Analysis (PR: LIN 3716 and LIN 3717)
  - LIN 4711L Language Analysis Lab (PR: LIN 3716 and LIN 3717)
  - PHI 3626 Advanced Ethics in Science and Technology (PR: COP 3502C or DIG 2000 or C.I.)
  - PHI 2101 Critical Thinking
  - PHI 2101 Formal Logic I
  - PHI 4500 Metaphysics (PR: Philosophy Major or C.I.)
  - PHI 4321 Philosophies of Embodiment (PR: Junior standing and either PHI 2010, PHI 2011, PHI 2101, or C.I.)
  - MAP 4103 Mathematical Modeling I (PR: MAC 2311 or MAC 2281, and MAP 2302)
  - PSY 4025 The Psychology of Art (PR: PSY 2012 and ARH 205x)
  - PSY 3213C Research Methods in Psychology (PR: PSY 2012 and STA 2014C or STA 2023)
  - EXP 3204C Perception (PR: PSY 2012 and PSY 3213C)
- (Electives may also be chosen from Required Courses above)

### Other Requirements

- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- 18 hours must be taken at the upper division.
- No more than 10 credit hours may be used both toward credit for a major and the cognitive sciences minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study require prior approval from the advisors to be used toward the minor.

## COMMUNICATION SCIENCES AND DISORDERS: Minor

### College of Health and Public Affairs Department of Communicative Disorders HPA2 Suite 101

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798  
E-mail: jschwart@mail.ucf.edu  
<http://www.cohpa.ucf.edu/comdis>

### Credit Hour Requirements

22 hours

#### Required Courses

SPA 3471	Communication Disorders In Literature & Media	3 hrs
SPA 3112	Basic Phonetics	3 hrs
SPA 3112L	Basic Phonetics Lab	1 hr
LIN 3716	Language Development: Birth Through 8 years	3 hrs
SPA 3101	Physiological Bases of Speech and Hearing	3 hrs
SPA 4032	Audiology	3 hrs
SPA 4400	Language Disorders Across the Lifespan	3 hrs
SPA 4476	Speech Disorders Across the Lifespan	3 hrs

#### Other Requirements

- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- At least 19 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

#### Licensed Speech Language and Audiology Assistant

This state license may be obtained by completing the minor plus one additional course in the disorders area as recommended by the academic advisor.

## COMMUNITY ARTS—PAVE: Minor

### College of Arts and Humanities Department of Art, VAB 117

<http://www.art.ucf.edu/>

E-Mail: [art@ucf.edu](mailto:art@ucf.edu)

Kevin Haran, 407-823-5203

#### Minor Requirements

##### Partners in Art in Visual Education (PAVE)

A minor in Community Arts—PAVE is offered for the student who is majoring in Art, Music, Theatre, or English (with a Creative Writing focus). Students interested in the minor should contact the department chair.

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used toward the minor.

## COMPUTER SCIENCE: Minor

### College of Engineering and Computer Science School of Electrical Engineering & Computer Science, Harris Corp Engineering Ctr, Rm 245

E-mail: [computerscience@ucf.edu](mailto:computerscience@ucf.edu)

<http://www.cs.ucf.edu>

Mark Llewellyn, 407-823-2341

#### Credit Hour Requirements

20 hours

#### Required Courses

COP 3223	Intro to Programming with C	3 hrs
COP 3330	Intro to Object Oriented Programming	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
COT 3100C	Introduction to Discrete Structure or	3 hrs
MAD 2104	Foundations of Discrete Mathematics	



CDA 3103C Comp. Organization 4 hrs

**Other Requirements**

- Not open to Computer Science or Information Technology majors.
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within Computer Science at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.

**CRIMINAL JUSTICE: Minor**

**College of Health and Public Affairs**  
**Department of Criminal Justice and Legal Studies,**  
**HPA1 311**

Dr. Mary Ann Eastep, 407 823-3598  
 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  
 CJC 3010 The Corrections and Penology  
 CJE 4014 Police and Society  
 Six semester hours of Criminal Justice Courses  
 (selected with the aid of an advisor).

**Other Requirements**

- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**DANCE: Minor**

**College of Arts and Humanities**  
**Theatre Department, UTC 180**  
<http://www.theatre.ucf.edu>

bvernon@mail.ucf.edu  
 Brian Vernon, 407-823-2862

**Credit Hour Requirements** **18 hrs**

**Entrance Requirement**  
 A successful audition

**Required Courses** (11 hrs)

DAN 3134 Dance History I 3 hrs  
 DAA 2610 Dance Improvisation/Composition I 3 hrs  
 DAA 2100C Modern Dance I 2 hrs  
 DAA 2200C Ballet I 2 hrs  
 DAA 3680 Dance Performance 1 hr

**Electives** (7 hrs)

DAA 2570C Jazz Dance I 2 hrs  
 DAA 2571C Jazz Dance II 2 hrs  
 DAA 3502C Jazz Dance III 2 hrs  
 DAA 2520C Tap Dance I 2 hrs  
 DAA 2521C Tap Dance II 2 hrs  
 DAA 3524C Tap Dance III 2 hrs  
 DAA 2201C Ballet II 2 hrs  
 DAA 3202C Ballet III 2 hrs  
 DAA 2101C Modern Dance II 2 hrs  
 DAA 3102C Modern Dance III 2 hrs  
 DAA 2393C World Dance 2 hrs  
 DAA 3645 Choreography Practicum 2 hrs  
 DAA 3680 Dance Performance 1 hr  
 THE 2090L Theatre Participation 1 hr

**Other Requirements**

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 14 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study credit may be used in the minor only with

prior written permission.

- Participation on a minimum of one departmental dance concert.
- A minimum of 3 different dance styles must be completed in the minor.

**DEAF STUDIES: Minor**

**College of Health and Public Affairs**  
**Department of Communication Sciences and Disorders**  
<http://www.cohpa.ucf.edu/comdis>

HPA II, Room 101

The Deaf Studies Minor addresses a growing interest in Deaf culture in the United States. Through the minor students not only acquire a second language that they may use to communicate with the Deaf community, but they also discover a rich and complex cultural group. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in interpersonal and organizational communication, psychology, sociology, the health professions, and social work. Additionally, a minor in Deaf Studies will serve as a valuable confirmation for employers and graduate schools of a student's specialized knowledge in the field

**Credit Hour Requirements** **21-22 hours**

**Required Courses**

SPA 2631 Issues in Deafness 3 hrs  
 SPA 4612 Introduction to American Sign Language 4 hrs  
 SPA 4613 Intermediate American Sign Language 4 hrs  
 SPA 4614C American Sign Language III 4 hrs

**Choose One of the Following:**

SPA 461C American Sign Language IV 4 hrs  
 SPA 3632 Communication Disorders in the Deaf 3 hrs  
 SPA 4617 Signed Language Linguistics 3 hrs  
 SPA\*\*\*\* Educational Implications of Deafness 3 hrs

**Other Requirements**

- A minimum of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the minor.
- At least 12 hours used in the minor must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the minor.

**DIGITAL MEDIA: Minor**

**College of Arts and Humanities**  
**Digital Media Program, 500 OTC**  
<http://www.creat.cas.ucf.edu>

bowers@mail.ucf.edu

Clint Bowers, 407-823-6100

**Credit Hour Requirements** **18 hrs**

**Required Courses:** **12 hrs**

DIG 3001 Principles of Digital Media  
 DIG 3135C Digital Imagery  
 DIG 4716L Internet Interaction  
 COP 2500C Concepts in Computer Science

**Restricted Elective Courses** **6 hrs**

Select two courses:  
 IDS 3701C Internet Software Design  
 DIG 3286C Assembling Digital Media  
 FIL 3625 Interactive Entertainment  
 DIG 4921C Media for e-Commerce I  
 DIG 4641 Creative Digital Devices  
 DIG 4780 Modeling for Realtime Graphics  
 DIG 3855 Converging Media  
 DIG 4640 Autonomous Media  
 DIG 4715C Game Engines  
 DIG 4713C Game Design

**Other Requirements**

- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- 15 hours used in the minor must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit can be used in the minor only with prior written permission.

## Minors

### EARLY CHILDHOOD EDUCATION: Minor

#### College of Education

#### Department of Child, Family, and Community Sciences

#### ED 209

<http://pegasus.cc.ucf.edu/~eceucf/>

Program Coordinator: Lynn Hartle (Until August 2006)

ED 206, 407-823-0045

E-mail: [ece@mail.ucf.edu](mailto:ece@mail.ucf.edu)

The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student's major program. This Minor is available for students in the 2003 Catalog Year and beyond.

#### Credit Hour Requirements

Required Courses (18 hrs) **21 hrs**

RED 3310	Emergent Literacy	3 hrs
EEC 3268	Play Development	3 hrs
EDF 3307	Learning Environments & Guidance	3 hrs
EEX 3450	Young Children with Special Needs	3 hrs
EEX 4751	Parent Involvement	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs

Restricted Electives (choose one) **(3 hrs)**

EDF 3740	Foundations of ECE	3 hrs
EDF 3120	Observing Child Growth & Development	
LAE 3414	Children's Literature	
RED 3012	Foundations of Reading	
EEC 4731	Health Safety & Nutrition	
RED 4311	Development of Literacy	
MAE 4300	Exploring Mathematics	
SCE 4023	Teaching Science & Technology	

#### Other Requirements:

- Completion of all parts of the CLAST with appropriate passing scores, not alternatives, or completion of an A.A. degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule is required.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.

**Note:** Completion of the minor does not complete the requirements for certification in Early Childhood Education nor does it constitute admission to the College of Education.

### ECONOMICS: Minor

(for both Business Majors and non-Business Majors)

#### College of Business Administration

#### Department of Economics, BA 318

R. Pennington, 407-823-2640, [robertp@bus.ucf.edu](mailto:robertp@bus.ucf.edu)

Credit Hour Requirements **18 hrs**

Required Courses (9 hrs)		
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. Note: ECO 3401 is a pre-requisite for ECO 3411.

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.

- 3 hours of Internship or Independent Study credit can be used toward the minor with prior approval of the economic advisor.

### EMERGENCY MANAGEMENT AND HOMELAND SECURITY: Minor

#### College of Health and Public Affairs

#### Department of Public Administration, HPA2 238

Mr. Robert Morin, 407-823-2604; fax: 407-823-5651

Email: [rmorin@mail.ucf.edu](mailto:rmorin@mail.ucf.edu)

The minor in emergency management and homeland security provides students with an opportunity to comprehensively study the disaster management cycle, including emergency planning, mitigation, response and recovery. In an age of dense population, increased terrorism, unpredictable weather and high public expectations of risk reduction and public leadership, this is an exciting area of study. Students who complete a minor in emergency management and homeland security gain additional insight and knowledge that will help them find positions in various federal, state and local government or nonprofit organizations. Some of these may include the Environmental Protection Agency, Occupational Health and Safety Administration, the Orange County Emergency Management Division, the Federal Emergency Management Agency, the Department of Homeland Security and state and local Homeland Security agencies.

#### Credit Hour Requirements

Core Courses (15 hrs) **18 hrs**

PAD 4110	Intergovernmental Administration	3 hrs
PAD 4392	Emergency Management and Homeland Security	3 hrs
PAD 4712	Information Systems for Public Managers and Planners	3 hrs
PAD 4395	Disaster Response and Recovery	3 hrs
PAD 4390	Hazard Mitigation and Preparedness	3 hrs

#### Restricted Electives (select one)

CCJ 4661	Conflict & Terrorism	3 hrs
HSA 4938	Health Issues in Disasters	3 hrs

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- Internship or Independent Study cannot be used toward the minor.

### ENGLISH - CREATIVE WRITING: Minor

#### College of Arts and Humanities

#### Department of English, CNH 301

[english@ucf.edu](mailto:english@ucf.edu)

T. Krise, 407-823-2212

#### Credit Hour Requirements

Required Course **21 hrs**  
CRW 3013 Creative Writing for English Majors **(3 hrs)**

#### Restricted Elective Courses

Select one course after completing CRW 3013 **(6 hrs)**

CRW 3120	Fiction Writing Workshop
CRW 3211	Creative Nonfiction Writing
CRW 3310	Poetry Writing Workshop
Select one course	
CRW 4122	Advanced Fiction Writing Workshop (PR: CRW 3120)
CRW 4224	Advanced Nonfiction Workshop (PR: CRW 3211)
CRW 4320	Advanced Poetry Writing Workshop (PR: CRW 3310)

#### Restricted Upper Division Electives (12 hrs)

CRW 3311	Structure of Verse
CRW 3610	Writing Scripts
CRW 4114	History of Prose Style
CRW 5932	Teaching Creative Writing
and 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.
- 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 Humanities**  
**Department of English, CNH 301**  
**english@ucf.edu**

T. Krise, 407-823-2212

**Credit Hour Requirements**

**18 hrs**

**Required Courses**

**(9 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**

**(9 hrs)**

LIN 4643	Cross Cultural Communication
LIN 4660	Linguistics and Literature
LIN 4801	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 Humanities**  
**Department of English, CNH 301**  
**english@ucf.edu**

T. Krise, 407-823-2212

**Credit Hour Requirements**

**21 hrs**

**Required Course**

**(3 hrs)**

ENG 3014	Theories and Techniques of Lit Study (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 Humanities**  
**Department of English, CNH 301**  
**english@ucf.edu**

T. Krise, 407-823-2212

**Credit Hour Requirements**

**18 hrs**

Choose 18 hours from the following Required courses

ENC 3211	Theory & Practice of Tech Writing or	3 hrs
ENC 3241	Writing for the Technical Professional	3 hrs
ENC 4215	Technical Publication and Project Management	3 hrs
ENC 4218	The Visual Elements in Technical Communication	3 hrs
ENC 4293	Documentation and the Collaborative Process	3 hrs
ENC 4294	Documentation and Client-Based Collaboration	3 hrs
ENC 4295	Capstone Experience in Technical Writing	3 hrs

Students completing the minor may intern with a Central Florida corporation

**Other Requirements**

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**ENGLISH - WRITING: Minor**

**College of Arts and Sciences**  
**Department of English, CNH 301**  
**english@ucf.edu**

T. Krise, 407-823-2212

**Credit Hour Requirements**

**18 hrs**

**Restricted Elective Courses**

**(18 hrs)**

Any 3000 or 4000 level ENC or CRW classes for which the student

has met the prerequisites, including

CRW 3013	Creative Writing for English Majors
CRW 3120	Fiction Writing Workshop
CRW 3211	Creative Nonfiction Writing
CRW 3310	Poetry Writing Workshop
CRW 3311	Structure of Verse
CRW 3610	Writing Scripts
CRW 4122	Advanced Fiction Writing Workshop
CRW 4123	Science Fiction Writing
CRW 4224	Advanced Nonfiction Writing
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.

**ENTREPRENEURSHIP: Business Minor**

(Open to Business Students)

**College of Business Administration**  
**Management Department, BA1 309**

**Credit Hour Requirements**

**18 hours**

**Required Courses**

**(15 hrs)**

MAN 3301	Human Resource Management
MAN 4802	Entrepreneurship
MAR 3391	Professional Sales or MAR 3641 Marketing Intelligence
GEB 4111	New Venture Finance
GEB 4117	Business Plan Preparation

**Restrictive Elective**

**(3hrs)**

Any 3000 or 4000 MAN course or BUL 4540 not in COB Common Body of Knowledge

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- 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.
- A maximum of 9 hours of required or elective coursework can count toward another major or minor degree program

**ENVIRONMENTAL STUDIES: Minor**

**Office of Undergraduate Studies**  
**Office of Liberal and Interdisciplinary Studies**  
<http://liberalstudies.info>

## Minors

### E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)

Liberal Studies Advising Team, 407-823-0144

The Environmental Studies minor is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

### Credit Hour Requirements

**21 hours**

Note: It is the student's responsibility to ensure that any prerequisite courses have been completed before enrolling in any of these courses requiring a prerequisite.

#### Required Course

IDS 3150 Foundations of Environmental Studies 3 hrs  
(9 hrs)

#### Science & Environmental Electives

##### Natural Sciences

BSC 1050&L Biology and Environment + lab  
BSC 2011C Biology II  
BOT 3152C Local Flora  
BOT 4156C Florida Wildflowers  
BOT 3800 Ethnobotany  
BOT 4303C Plant Kingdom  
BOT 4686C Conservation and Management of Native Plants  
BOT 5623C Plant Geography and Ecology  
BOT 4713C Plant Taxonomy  
BSC 4312C Marine Biology  
PCB 3044&L Principles of Ecology and Lab  
PCB 3442 Florida Aquatic Ecology  
PCB 4302C Physiochemical 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 31020 Analytical Chemistry  
CHS 4615 Environmental Chemistry  
HSC 4500 Epidemiology

##### Environmental Engineering

ENV 3001 Introduction to Environmental Engineering  
ENV 4341 Solid Waste Management

##### Social & Humanities Electives

(9 hrs)

##### Environment & Society

ECP 3303 Economics and the Environment or  
ECP 4302 Economics of the Environment  
ECO 4701 The Global Economy  
INR 4351 International Environmental Law  
PUP 3203 Environmental Politics  
PUP 4503 Government and Science  
PAD 4351 Issues in Environmental Program Management  
PAD 5336 Introduction to Urban Planning  
PAD 5338 Land Use and Planning Law  
PLA 4631 Land Use and Environmental Law  
PUP 4204 Sustainability

##### Geography

GEO 2370 Resources Geography  
GEO 3042C GIS for Environmental Studies  
GEO 4301C Advanced GIS Applications in Environmental Studies  
GEO 4035C Remote Sensing of the Environment

##### Philosophy

PHI 3033 Philosophy, Religion, and the Environment  
PHI 4400 Philosophy of Science  
PHI 3640 Environmental Ethics  
PHI 4633 Ethics and Biological Science  
PHM 4031 Environmental Philosophy  
PHM 5035 Environmental Philosophy

##### Sociology

SOP 3004 Social Psychology  
SCE 4023 Teaching Science and Technology to Children  
ANT 3312 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.

## EUROPEAN STUDIES: Minor

### College of Sciences

### Department of Political Science, CNH 415

<http://www.cas.ucf.edu/politicalscience>

E-mail: [politics@mail.ucf.edu](mailto:politics@mail.ucf.edu)

Contact: Kerstin Hamann, 407-823-2608;

An interdisciplinary minor that offers students a general background of the politics, history, literature, art, and culture of Europe with an emphasis on the post-World War II period. Courses are to be selected in consultation with a departmental advisor or the director of European Studies.

### Credit hour requirements:

**21 hrs**

Students are responsible for meeting any prerequisites for the courses in the minor.

### Required core courses:

**(6 hrs)**

CPO 4101 Politics of the European Union  
LIT 3082 Continental European Fiction

### Restricted Electives:

**(12 hrs)**

#### Literature, Film, and Culture:

**(3 hrs)**

ENL 2022 English Literature II  
ENL 4101 English Novel  
ENL 4240 English Romantic Writers  
ENL 4262 19<sup>th</sup> Century British Prose  
ENL 4273 Modern British Literature  
FIL 3520 Italian Film  
FIL 3521 French Film  
FIL 3522 German Film  
FRE 4500 French Civilization and Culture  
FRW 4281 20th Century French Novels  
FRW 4324 20th Century French Drama  
FRW 4532 French Romanticism  
FRW 4552 Nineteenth Century French Literature  
GER 3102 Germany - Past to Present  
GER 4520 Modern Germany  
GEW 3101 Survey of German Literature II  
GEW 3370 German Short Story  
GEW 3480 German Post-War Literature  
GEW 4482 German Children's Literature  
GEW 4531 The Age of Goethe and Schiller  
ITT 4956 Study Abroad: Italian Civilization  
ITW 3101 Survey of Italian Literature II  
JST 3751 Literature of the Holocaust  
LIT 4184 Irish Literature  
MUL 3604 German Song Literature  
MUL 3605 French Song Literature  
SPW 3101 Survey of Spanish Literature II  
SPW 3370 Spanish Short Story  
SPW 4272 20th Century Spanish Novel  
SPW 4322 Contemporary Iberian Theatre  
SPW 4450 Spanish Literary Theory  
SPW 4460 Nineteenth Century Spanish Literature  
SPW 4720 The Generation of 1898

#### History

**(6 hrs)**

EUH 3235 Romanticism and Realism  
EUH 3242 Modern Europe and the First World War  
EUH 3281 Second World War and Rebirth of Europe  
EUH 3315 History of Modern Spain  
EUH 3411 Ancient Rome  
EUH 3431 History of Modern Italy  
EUH 3451 History of Modern France  
EUH 4284 Fascism and the Totalitarian Dictatorships  
EUH 4400 The History of Ancient Greece  
EUH 4465 Hitler's Third Reich  
EUH 4501 English History: 1485-1815  
EUH 4502 English History: 1815-Present  
EUH 4574 History of Russia: 1801-1917  
EUH 4576 History of Russia in the 20<sup>th</sup> Century  
EUH 4582 20<sup>th</sup> Century Russian Diplomatic History  
EUH 4610 Women in European Society  
EUH 4620 European Great Powers: 1815-1914  
GER 4510 Life and Culture in Nazi Germany  
JST 3701 History of the Holocaust

#### Political Science or Economics

**(3 hrs)**

CPO 3104	Politics of Western Europe
CPO 3614	Politics of Eastern Europe
CPO 4074	Political Economy
CPO 4123	Government and Politics of Great Britain
CPO 4445	Comparative Political Parties
CPO 4643	Government and Politics of Russia
ECO 3703	International Economics
ECS 4303	Economics of European Integration
INR 4035	International Political Economy

Other: (3 Hrs)

may be taken from any of the above electives; Foreign Language Across the Curriculum (FLAC) courses linked to any of the above electives

ARH 4430	19 <sup>th</sup> Century Art
ARH 4450	20 <sup>th</sup> Century Art
PHH 3510	Marx and Nietzsche
PHP 3783	Modernity as a Philosophical Problem
PHP 3786	Existentialism
PHP 4782	Phenomenology

Any course substitutions are subject to prior approval by the director.

**Foreign Language Requirement:**

Two years (four semesters) or equivalent proficiency exam in French, German, Greek, Italian, Portuguese, or Spanish (other languages require approval of director).

**Other Requirements**

- A grade of "C" (2.0) or better is required for all courses counting towards the minor.
- A maximum of 6 hours of Study Abroad credit in equivalent courses can be used, with no more than 3 credits in one area.
- At least 18 hours must be taken at UCF.
- No credit by exam (military credit, TSD) may be used.
- Courses offered by the Modern Languages Department might be offered in a language other than English.
- At least 15 credits must be upper division.
- No more than 6 credit hours (separate from the foreign language requirement) may be used toward the European Studies minor and also used toward any other major or minor.

**EXCEPTIONAL EDUCATION: Minor**

**College of Education**

**Department of Child, Family, and Community Sciences**

**ED 209; <http://www.education.ucf.edu>**

Program Coordinator: Dr. Lee Cross

ED 315-N, 407-823-5477

E-mail: [lcross@mail.ucf.edu](mailto: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 20-21 hrs**  
Required Courses (18 hrs)

RED 3012	Basic Foundations of Reading	3 hrs
EEX 4003	Teaching Exceptional Students	3 hrs
EEX 4601	Introduction to Behavior Management	3 hrs
EEX 4753	Parent/Professional Collaboration	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EEX 3243	Techniques for Exceptional Adolescents/ Adults or	
EEX 3241	Methods for Academic Skills for Excep. Students	3 hrs

**Restricted Electives (2-3 hrs)**

EEX 4054	Applications and Theories for Students with Special Needs or	2 hrs
EDF 4214	Classroom Learning Principles	3 hrs

**Other Requirements**

- Completion of all parts of the General Knowledge test and/or CLAST with appropriate passing scores (no alternatives or waivers), or completion of an AA degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule classes including ENC

1101, 1102, and two college level math courses, MAC 1105 or higher, is required

- No Military credit may be used. Transfer credits from other universities will be considered.

**Note:** Completion of the minor does not complete the requirements for certification in Exceptional Education nor does it constitute admission in the College of Education.

**FILM - CINEMA STUDIES: Minor**

**College of Arts and Humanities**

**School of Film and Digital Media**

**Film Division, COM 121**

**407-823-3456**

<http://www.film.ucf.edu>

film@ucf.edu

Division Head: S. Schlow, 407-823-0694

**Entrance Requirement**

- Completion of a Minor Declaration and Minor Application

**Credit Hour Requirements 18 hrs**

Required Courses (12 hrs)

FIL 1007	Foundations of Story <i>or</i>	3 hrs
FIL 1001	Cinema Survey	
FIL 2400	History of Motion Pictures	3 hrs
FIL 3006	Art of the Cinema	3 hrs
FIL 2224C	Foundations of Production	3 hrs
<b>Restricted Electives (Choose Two)</b>		<b>(6 hrs)</b>
FIL 3309	Women in Film	
FIL 3520	Italian Film	
FIL 3521	French Film	
FIL 3522	German Film	
FIL 3412	Black Cinema	

**Other Requirements**

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**FINANCE: Minor**

(Open to Business and Non-Business Students)

Not available to Finance Majors

**College of Business Administration**

**Department of Finance, BA 409**

<http://www.bus.ucf.edu/finance>

**Credit Hour Requirements 18 hrs**

Prerequisite courses:

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics

**Required courses 9 hours**

FIN 2104	Personal Finance and Investments	3 hrs
FIN 3403	Business Finance	3 hrs
FIN 3303	Financial Markets	3 hrs

**Electives (select three of the following) 9 hours**

FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 3470	Financial Statement Analysis	3 hrs
FIN 3504	Investment Analysis	3 hrs
FIN 4313	Management of Financial Institutions	3 hrs
FIN 4324	Commercial Bank Management	3 hrs
FIN 4424	Advanced Topics in Financial Management	3 hrs
FIN 4453	Financial Models	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4533	Financial Derivatives	3 hrs
FIN 4604	International Financial Management	3 hrs

**Other Requirements**

- A student minoring in finance must earn a grade of "C" (2.0) or higher in each course applied toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.

## Minors

- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

### FITNESS TRAINING: Minor

#### College of Education

#### Department of Teaching and Learning Principles, ED 209

<http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm>

Program Coordinator: Dr. Patricia Higginbotham

ED 320 H, 407-823-2050

Email: [higginbp@mail.ucf.edu](mailto:higginbp@mail.ucf.edu)

The Fitness Training minor is developed to provide the student interested in working in wellness centers as personal trainers the knowledge and experience to be successful in this growing and exciting area. The goal is to provide guided practical skills application to those students who wish to teach fitness related concepts to individuals and/or groups.

With the knowledge acquired from the completion of the required coursework for the Fitness Training Minor, students will be prepared and eligible to receive certification from The American Council on Exercise. This Minor is available for students in the 2001 Catalog Year and beyond.

#### Credit Hour Requirements

\*19 hrs

#### Required Courses

*PEM 2171	Aerobics	2 hrs
*PET 2622C	Human Injuries	3 hrs
PET 4312	Biomechanics	3 hrs
PET 4550	Fitness Assessment and Exercise	3 hrs
PET 4083C	Practical Fitness Training (Only offered once a year)	4 hrs
*ZOO 3736C	Exercise Physiology Anatomy	4 hrs

\* If the student has completed a Human Anatomy course with a laboratory requirement at another school, it can be substituted for ZOO3736C. This is also true for the Human Injuries course, PET2622C and the PEM 2171 Aerobics course. Both of these courses are often completed at a community college.

Note: ZOO 3736C should be taken prior to PET 4312, PET 4550, and PET 4083C

#### Other Requirements

- No grades below "C-" (1.75) and no "S" grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

### FRENCH: Minor

#### College of Arts and Humanities

#### Modern Languages and Literatures, CNH 523

<http://www.cas.ucf.edu/forlang>

[Modernlanguage@ucf.edu](mailto:Modernlanguage@ucf.edu)

P. Giordano, 407-823-2472

#### Credit Hour Requirements

18 hrs

#### Restricted Electives

- Select six upper division courses in French, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

#### Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

### GERMAN: Minor

#### College of Arts and Humanities

#### Modern Languages and Literatures, CNH 523

<http://www.cas.ucf.edu/forlang>

[Modernlanguage@ucf.edu](mailto:Modernlanguage@ucf.edu)

P. Giordano, 407-823-2472

#### Credit Hour Requirements

18 hours

#### Restricted Electives

- Select six upper division courses in German, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

#### Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

### HEALTH INFORMATION MANAGEMENT: Minor

#### College of Health and Public Affairs

#### Department of Health Professions, HPA2 210

Thomas J. Falen, 407-823-2369

Email: [tfalen@mail.ucf.edu](mailto:tfalen@mail.ucf.edu)

#### Credit Hour Requirements

20 hrs

#### Required Courses

HIM 3006	Foundations of Health Information Management	3 hrs
HIM 4506	Quality Management	3 hrs
HIM 4656C	Health Information Management Systems	3 hrs
HSC 3531	Medical Terminology	3 hrs
HIM 4226C	Coding Procedures I	5 hrs
HIM 4256C	Coding Procedures II	3 hrs

#### Other Requirements

- A minimum overall GPA of 2.5 is required. A minimum grade of "C" (2.0) is required in each course for the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by examination (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental approval.

### HEALTH SCIENCES: Minor

#### College of Health and Public Affairs

#### Department of Health Professions, HPA2 212

L. Timothy Worrell, 407-823-2214

E-mail: [worrell@mail.ucf.edu](mailto:worrell@mail.ucf.edu)

#### Credit Hour Requirements

18 hrs

#### Required Courses

HSA 3111	U.S. Health Care Systems	3 hrs
HUN 2002	Modern Concepts of Nutrition	3 hrs
HSC 3110C	Medical Self Assessment	3 hrs

#### Restricted Upper Division Electives

(9 hrs)

9 additional hours of upper division courses in the Health Professions department.

#### Other Requirements

- Majors may not count courses presently required in a department program.
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of "C" (2.0) is required in all Health Professions courses.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**HEALTH SERVICES ADMINISTRATION: Minor**

**College of Health and Public Affairs**

**Department of Health Professions, HPA2 210**

Thomas Falen, 407-823-2369

Email: tfalen@mail.ucf.edu

**Credit Hour Requirements** **18 hrs**

**Required Courses** **(15 hrs)**

HSA 3111	U.S. Health Care Systems	3 hrs
HSA 4201	Community Health Services	3 hrs
HSA 4180	Org and Mngmnt for Health Agencies	3 hrs
HSA 4191	Health Care Automation	3 hrs
HSC 4500	Epidemiology	3 hrs

**Restricted Elective** **(3 hrs)**

HSC 3640	Health Law or
HSC 4653	Health Care Ethics <i>or</i>
HSA 4109	Managed Care <i>or</i>
HSA 4502	Risk Management <i>or</i> HIM 4506 Quality Management
HSA 4702	Health Science Research Methods

(Additional prerequisite courses may be required)

**Other Requirements**

- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of "C" (2.0) is required in all courses for the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**HISTORY: Minor**

**College of Arts and Humanities**

**Department of History, CNH 551**

<http://pegasus.cc.ucf.edu/~history>

[history@ucf.edu](mailto:history@ucf.edu)

Edmund F. Kallina, 407-823-2224

**Credit Hour Requirements** **18 hrs**

**Restricted Upper Division Electives** **(15 hrs)**

**History Elective** **(3 hrs)**

Any course taught within the History Department

**Other Requirements**

- A grade of ÖC-Ö (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 advisorÖs approval.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental approval.

**HOSPITALITY MANAGEMENT: Minor**

**Rosen College of Hospitality Management**

**9907 Universal Boulevard**

**Orlando, FL 32819**

**407-903-8000**

<http://www.hospitality.ucf.edu>

**E-mail: [hospitality@mail.ucf.edu](mailto:hospitality@mail.ucf.edu)**

Dean: Abraham Pizam

**Credit Hour Requirements** **18 hours**

**Required Courses** **(6 hrs)**

HFT 1000	Introduction to Hospitality Mgmt	3 hrs
HFT 3540	Guest Services Management I	3 hrs

**Choose any two courses from the following:** **(6 hrs)**

HFT 2403	Hospitality Financial Accounting	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 2500	Hospitality Marketing	3 hrs
HFT 2220	Hospitality Human Resource Mgmt	3 hrs
HFT 3444	Hospitality Information Systems	3 hrs
HFT 3600	Legal Environment in Hospitality	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 4286	Hospitality Communications	3 hrs

**Choose any two courses from the following:** **(6 hrs)**

HFT 3700	Tourism Management	3 hrs
----------	--------------------	-------

HFT 3261	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park & Attraction Mgmt	3 hrs
HFT 2750	The Event Industry	3 hrs
FSS 2221C	Quantity Food Preparation	3 hrs
HFT 2254	Lodging Operations	3 hrs

**Other Requirements**

- A minimum GPA of 2.0 in all courses used to satisfy the minor.
- At least 12 credit hours used in the minor must be earned at UCF within the College.
- No credit by exam (TSD, Military credit) may be used in the minor.
- It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student's responsibility for dropping courses they do not intend to complete.
- Final exams will be given during Final Exam Week only.
- Internship or Independent Study credit cannot be used toward the minor.

**HUMANITIES: Minor**

**College of Arts and Humanities**

**Department of Philosophy, CNH 411**

<http://www.cas.ucf.edu/philosophy>

[philosophy@ucf.edu](mailto:philosophy@ucf.edu)

Bruce Janz, 407-823-2273

A multicultural minor focusing on the art, literature, philosophy, and religion of various world cultures. This minor is intended to provide a limited, yet substantive, introduction to humanities themes related to knowledge, responsibility, and society. Students interested in the Liberal Arts major may find this minor particularly helpful. In consultation with a departmental advisor, student will select courses in accordance with the distributions listed below.

**Credit Hour Requirements** **21 hrs**

**Humanities Foundations** **6 hours**

Select two courses:	
HUM 3431	Ancient Humanities
HUM 3435	Medieval Humanities
HUM 3255	Modern Humanities
HUM 3252	Contemporary Humanities

**Humanistic/Religious Traditions** **6 hours**

Select two courses:	
HUM 3401	Asian Humanities
HUM 3417	Hindu Thought and Culture
HUM 3419	Islamic Thought and Culture
HUM 3552	Christian Thought
HUM 3553	Moses, Jesus and Muhammad
ANT 3245	Native American Religions
JST 3401	The Jewish People I

**Applications** **6 hours**

Select two courses:	
PHI 3803	Philosophy and Creativity
PHI 3033	Philosophy, Religion, and the Environment
PHM 3123	Feminist Theories
REL 3162	Healing: Culture, Art, and Praxis
REL 3115	Religion, Spirituality, and Popular Music
REL 3111	Religion and Philosophy through Film
HUM 4554	Religious Quest and the Human Dilemma
HUM 4330	Performance Theory
PHI 3022	Sexuality, Gender & Philosophy
PHI 3638	Ethical Issues in the 21st Century
PHI 4321	Philosophies of Embodiment: Mind/Body/Self

**Upper Division Restricted Elective** **3 hours**

Select one additional course from the above list or from the following:	
HUM 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.

## Minors

- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

### INFORMATION TECHNOLOGY: Minor

**College of Engineering and Computer Science**  
**School of Electrical Engineering & Computer Science**  
**Harris Corp Engineering Ctr, Rm 245**  
**E-mail: [computerscience@ucf.edu](mailto:computerscience@ucf.edu)**

**<http://www.cs.ucf.edu>**

Mark Llewellyn, 407-823-2341

#### Credit Hour Requirements

##### Required Courses

Select one of the following options:

Option 1 (Not open to Computer Science Minors or Liberal Studies Majors):

CGS 1060C or CGS 2100C	3 hrs
COP 2500C Concepts in Computer Science	4 hrs

Option 2 (Not open to Computer Science Minors or Liberal Studies Majors):

COP 3223 Intro to Programming with C	3 hrs
COP 3502C Computer Science I	3 hrs

Option 3 (Computer Science Minors and Liberal Studies Majors Only):

CGS 1060C or CGS 2100C	3 hrs
------------------------	-------

**18-19 hours**  
**(3-7 hrs)**

##### Restricted Electives

Select from the following:

CGS 3346C Unix Operating Systems	3 hrs
CGS 2545C Database Concepts	3 hrs
CGS 2585C Desktop/Internet Publishing	3 hrs
CGS 3175 Internet Applications	3 hrs
CGS 3269 Computer Architecture Concepts	3 hrs
CGS 3285 Computer Networks Concepts	3 hrs
CGS 3763 Operating Systems Concepts	3 hrs

**(9 hrs)**

##### College Electives

Options 1 and 2	3 hrs
Options 3	6 hrs

**(3-6 hrs)**

Any upper division courses offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internships, and those courses listed under Required Courses). See other requirements.

#### Other Requirements

- Not open to Information Technology majors.
- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within the Computer Science program at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
- The courses used to satisfy the college electives for this minor cannot also be used to satisfy the requirements for a Computer Science Minor.

### INTERNATIONAL AND GLOBAL STUDIES: MINOR

**College of Sciences**  
**Department of Political Science, CNN 415**  
**<http://www.cs.ucf.edu/politicalscience>**  
**email: [politics@ucf.edu](mailto:politics@ucf.edu)**

Contact: Waltraud Morales, 407-823-2608

Students taking the International and Global Studies Minor will examine the interactions between nations and the political processes within nations using a variety of perspectives. International aspects focus on how countries interact with one another, and how the social and cultural systems within them affect these interactions. Global studies looks at intra-national factors, such as how a state's internal characteristics impact that state's political processes. Immigration, technological advancements and internationalization of foreign policy make global studies a complementary approach to international studies.

#### Credit Hour Requirements

**21-32 hrs**

**Note:** It is the student's responsibility to satisfy course prerequisites.

##### Core Courses

IDS 4315 Global Perspectives	3 hrs
GEO 3471 World Political geography	3 hrs

Restricted Political Science Electives (Select one)

INR 4030 Diplomacy	3 hrs
INR 4076 Global Drug Policy	3 hrs

**(3 hrs)**

INR 4075 Human Rights Policy
INR 4714 International Trade Policy
INR 4035 Politics of International Political Eco
INR 4603 International Political Theory
INR 4350 Global Environmental Politics
INR 4502 International Organizations

##### Restricted Area Studies Electives

**(6 hrs)**

Two upper division courses from one of the following area studies programs.

Courses may not have a prefix of INR, CPO, POT, POS or PUP.

Asian Studies, European Studies, Latin American, Caribbean and Latino Studies, Middle Eastern Studies

##### Restrictive Electives (3 hrs)

CCJ 4661 Terrorism
EUH 3651 War and Society
MMC 4300 International Media
CPO 3103 Comparative Politics
CPO 4062 Comparative Judicial Process
CPO 4074 Political Economy
CPO 4754 Comparative Political Institutions
CPO 4710 Women in Comparative Politics
CPO 4784 Political and Economic Inequality in Comparative Perspective
CPO 4445 Comparative Political Parties
SYP 4454 Sociology of the Global System
THE 3312 Global Theatre

Substitutions require prior approval by the program advisor

##### Language Requirement

**(3-14 hrs)**

■ 3-one credit Foreign Language across the Curriculum

(FLAC) courses 3 hrs

■ **Foreign Language Requirement** 0-11 hrs

Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

### INTERNATIONAL BUSINESS:

**Minor for Business Majors**  
**College of Business Administration**  
**Office of Student Support, BA 240**  
Richard Ajayi, 407-823-5908

#### Credit Hour Requirements

**18 hrs**

##### Required Courses

**(12 hrs)**

ECO 3703 International Trade or	3 hrs
ECO 4XXX International Macroeconomics	3 hrs
FIN 4604 International Financial Management	3 hrs
MAN 4600 International Management or	3 hrs
MAR 4156 International Marketing	3 hrs

##### Elective

**(6 hrs)**

ECO 3703 International Trade
ECO 4XXX International Macroeconomics
ECO 4701 Seminar in Global Economic Policy
ECS 4013 Economics of Developing Areas
GEO 3471 World Political Geography
INR 4035 International Political Economy
INR 4224 Contemporary International Politics of Asia
INR 4243 International Politics of Latin America
INR 4401 International Law I
MAR 4724 Strategic Foundations in Global e-Business

Special Topics Seminars in International Business;  
3000/4000 level foreign language course.

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted. Students minoring in International Business must earn a grade of "C" (2.0) or better in each course applied toward the Minor.
- At least 12 hours used in the minor must be earned at UCF within the College of Business Administration.



- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

### INTERPERSONAL COMMUNICATION: Minor

College of Sciences

Nicholson School of Communication, COM 258

407-823- 2852

<http://www.cas.ucf.edu/communication>

E-mail: [communication@ucf.edu](mailto:communication@ucf.edu)

Contact: Susan Jefferson

Not open to Interpersonal/Organizational Communication majors.

**Credit Hour Requirements** **21 hrs**

**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

Independent study or Special topics course if approved by the coordinator prior to enrolling in the class

#### Other Requirements

- A minimum average GPA of 2.0 is required in courses used to satisfy the minor.
- Grades below "C" (2.0) in lower 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.

### INTELLIGENT ROBOTIC SYSTEMS (IRS):

#### INTERDISCIPLINARY Minor

College of Engineering and Computer Science

CECS Academic Affairs, ENGR 107

Paul Edlen, 407-823-2455, paule@mail.ucf.edu

<http://www.cecs.ucf.edu>

**Credit Hour Requirements** **18 hrs**

**Required Courses** (9 hrs)

ENGR 3060C	Introduction to Robotics	3 hrs
------------	--------------------------	-------

Select two courses from the following five areas:

Control Systems		
EEL 3657	Linear Control Systems	3 hrs
EML 4312	Feedback Control	3 hrs
Manipulation and Rigid Body Motion		
ENGR 3321	Engineering Analysis – Dynamics	3 hrs
EML 3262	Kinematics of Mechanism	3 hrs
Computer Vision and Intelligent Systems		
CAP 4453	Robot Vision	3 hrs

If a student chooses to take a third course, it will be counted as an elective.

**Elective Courses** **(9 hrs)**

Select any three elective courses from the following courses:

Path Planning, Autonomous Systems, Controls, Signal/Image Processing		
EEL 4664	Autonomous Robotic Systems	3 hrs
EEL 4612	Intro to Modern and Robust Ctrl	3 hrs
EEL 4750	Digital Signal Proc Fund	3 hrs
EEL 5173	Linear Systems Theory	3 hrs
EEL 5513	DSP Applications	3 hrs
EEL 5630	Digital Control Systems	3 hrs
EEL 5820	Image Processing	3 hrs
EEL 5825	Pattern Recognition	3 hrs
EML 5311	System Control	3 hrs
Computer Vision and Intelligent Systems		
CAP 5415	Computer Vision	3 hrs
CAP 5512	Evolutionary Computation	3 hrs
CAP 5610	Machine Learning	3 hrs
Mechatronics and MEMS		
EML 3804	Digital Control in Mechatronics	3 hrs
EEL 5625	Applied Control Systems	3 hrs
EML 5290	Intro to MEMS & Micromachining	3 hrs

#### Other Requirements

- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Students whose major requires senior design courses are encouraged to take the multidisciplinary senior design course (EGN 4412 and EGN 4413) and to undertake a project in intelligent robotic systems. If done, a certificate will be issued with the minor.
- A high-level programming language class (EGN 3210 or COP 3223 or equivalent) is required for the minor.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

### ITALIAN: Minor

College of Arts and Humanities

Modern Languages and Literatures, CNH 523

<http://www.cas.ucf.edu/forlang/>

[Modernlanguage@ucf.edu](mailto:Modernlanguage@ucf.edu)

P. Giordano, 407-823-2472

**Credit Hour Requirements** **18 hrs**

#### Restricted Electives

- Select 6 upper division courses in Italian, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

#### Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

### JUDAIC STUDIES: Minor

College of Arts and Humanities

Judaic Studies Program, CNH 201

[http://www.cas.ucf.edu/judaic\\_studies](http://www.cas.ucf.edu/judaic_studies)

E-mail: [judaicst@ucf.edu](mailto:judaicst@ucf.edu)

Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women's Studies Programs. Students who desire to minor in Judaic Studies are encouraged to meet with the program director. For Certificate requirements, refer to the section on Judaic Studies Certificate.

**Credit Hour Requirements** **18-26 hrs**

**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 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 3144	Dead Sea Scrolls
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

## Minors

### 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.

## LATIN AMERICA AREA STUDIES: Minor

### College of Arts and Humanities

#### VAB 203

(407) 823-1173 or 1174

Dr. Luis Martinez-Fernandez, Program Director

martfern@mail.ucf.edu

The minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand, Latin America, its people and its culture. Students completing the minor shall be prepared to apply their knowledge about Latin America in a variety of careers including, but not limited to: education, government, journalism, foreign service, social and community service, international trade and public relations.

### Credit Hour Requirements

18 hrs

### Admission Requirement

Admission by interview with the Program Director.

### Required Skills

Successful completion of SPN 1120 and SPN 1121 or demonstration of proficiency.

### Restricted Electives

(18 hrs)

At least 6 hours must be from one disciplinary group, and at least 3 hours from two additional groups. The other 12 must be selected from any of the disciplinary groups. Additional courses not listed below may substitute with prior approval from the Program Director.

### Anthropology:

ANT 3164	Ancient Incas
ANT 3168	Maya Archaeology
ANT 3332A0	People and Cultures of Latin America
ANT 4340	Caribbean Cultures
ANT 4308A0	Gender Issues in Latin America
ANT 3168	Maya Archeology

### Art History:

ARH 4655	Meso American Art
ARH 3673	Modern Art of Mexico
ARH 3670	20th Century Latin American Art

### Modern Languages and Literature:

SPN 2200	Intermediate Spanish Language & Civilization
FRW 3770	Francophone Literature
SPW 3130	Survey of Latin American Literature I
SPW 3131	Survey of Latin American Literature II
LIT 3192	Caribbean Literature
FRW 3752	French Caribbean Literature
SPW 4382	Literature of Central America
AML 3615	Harlem, Haiti, and Havana
AML 4630	Latino/Latina Literature
SPN 3852	Bilinguismo
SPW 4730	Hispanic Literature of the United States
SPN 4780	Spanish Phonetics

### History:

LAH 3130A0	Latin American History I
LAH 3200	Latin American History II
LAH 3400A0	History of Mexico and Central America
LAH 3470	History of the Caribbean
AMH 3586	History of the Hispanic minorities in the US

### Latin American Studies:

LAS 4906	Independent Study in Latin American, Caribbean and Latino Studies
LAS 4023	African Caribbean Experience

### Political Science:

CPO 4303	Comparative Latin American Politics
INR 4243	International Politics of Latin America
CPO 5334	Contemporary Politics in the Maya Region

### Required Written Project

(0 hrs)

In consultation with the Program Director, a major written paper on some aspect of Latin America, the Caribbean or Latino Studies must be completed and 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.
- 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 permission from the Program Director.

## LEGAL STUDIES: Minor

### College of Health and Public Affairs

#### Department of Criminal Justice and Legal Studies, HPA 311

David B. Slaughter, 407-823-2603

E-mail: dslaught@mail.ucf.edu

### Credit Hour Requirements

21hrs

### Required Courses

PLA 3013	Law and the Legal System
----------	--------------------------

### Restricted Upper Division Electives

15 semester hours of legal studies courses selected with the aid of an advisor. (15 hrs)

### Restricted Electives

3 semester hours of law-related courses selected with the aid of an advisor. (3 hrs)

### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

## MAGAZINE JOURNALISM: Minor

### College of Sciences

#### Nicholson School of Communication, COM 258

<http://www.cas.ucf.edu/communication>

E-mail: [journalism@ucf.edu](mailto:journalism@ucf.edu)

Contact: Fred Fedler, 407-823-2839

### Prerequisites

- Grammar proficiency requirement
- A minimum UCF GPA of 3.3

### Credit Hour Requirements

18 hrs

### Required courses

JOU 2100C	News Reporting	3 hrs
JOU 3510	Magazine Publishing	3 hrs
JOU 4224	Magazine Editing and Production	3 hrs

### Restricted Upper Division Electives

ENC 3310	Magazine Writing I	(9 hrs)
JOU 3201	Editing I	
JOU 3202	Editing II	
JOU 4300	Feature Writing	
JOU 4308	Freelance Writing	
JOU 4340C	New Media Studies	

### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

**MANAGEMENT INFORMATION SYSTEMS: Minor**

(For both Business and Non-Business Majors)

College of Business Administration

Department of MIS, BA 325

407-823-3173

**Credit Hour Requirements** 19 hrs

**Prerequisite courses**

CGS 2100CC	Computer Fundamentals for Business <i>or</i>
CGS 1060C	Intro to Computer Science (or equivalent)
MAC 1105	College Algebra <i>or</i>
MGF 1106	Finite Mathematics

**Required Courses** 10 hrs

ISM 3011	Management Information Systems	3 hrs
ISM 3253	MIS Techniques	4 hrs
ISM 4212C	Database Management	3 hrs

**Electives (choose three)** 9 hrs

Any 4000 or 5000 Level ISM course from those listed below or others with the permission of the MIS Department Chair:

ISM 4113	Information Systems Analysis and Design
ISM 4130	Information Systems Implementation
ISM 4220	Distributed Information Systems
ISM 4300	Technology Management
ISM 4480	Electronic Commerce Systems
ISM 4932	Special Topic Course
ISM 5315	Information Systems Project Management
ISM 5219	Business Intelligence Systems

**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.
- Minor is not available to MIS Majors
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**MASS COMMUNICATION: Minor**

College of Sciences

Nicholson School of Communication, COM 228

<http://www.cas.ucf.edu/communication>

E-mail: [communication@ucf.edu](mailto:communication@ucf.edu)

Contact: M. A. Shaver, 407-823-2681 or J. Jefferson, 407-823-3978

**Credit Hour Requirements** 18 hrs

**Restricted Electives** (18 hrs)

**Select from the following:**

MMC 2004	Mass Media
ADV 3000	Principles of Advertising
COM 3330	Computer Mediated Communication
FIL 2400	History of Motion Pictures
FIL 3006	Art of the Cinema
FIL 3410	History of Animated Films I
JOU 3004	History of American Journalism
MMC 3420	Mass Media Research Methods
MMC 4200	Mass Communication Law
MMC 4300	International Media
PUR 4000	Public Relations
RTV 3000	Dev & Struct of Elect Media & New Tech
RTV 3200	Prod Fund & Aesth of Elect Media
RTV 4403	Electronic Media, Technology and Society

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.

- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

**MATHEMATICS: Minor**

College of Sciences

Department of Mathematics, MAP 207

<http://math.ucf.edu>

E-mail: [math@mail.ucf.edu](mailto:math@mail.ucf.edu)

Contact: H. Martin, MAP 231F, 407-823-5700,

E-mail: [martin@math.ucf.edu](mailto:martin@math.ucf.edu)

**Credit Hour Requirements** 21 hrs

**Required Courses** (15 hrs)

MAC 2311	Calculus with Analytic Geo I	4 hrs
MAC 2312	Calculus with Analytic Geo II	4 hrs
MAC 2313	Calculus with Analytic Geo III	4 hrs
MAP 2302	Differential Equations	3 hrs

(MAC 2311 and MAC 2312 may be waived by the

Department Standards Committee for a student with adequate high school preparation in calculus. The student would increase Restricted Electives' hours accordingly to earn the hours required in the minor)

**Restricted Electives** (6 hrs)

The Restricted Electives must be taken from the Department of Mathematics at UCF and must include one course at the 4000-5000 level.

MAA XXXX	(any 3000, 4000, or 5000 level course)
MAD XXXX	(any 3000, 4000, or 5000 level course)
MAP XXXX	(any 3000, 4000, or 5000 level course, except MAP 3401)
MAS XXXX	(any 3000, 4000, or 5000 level course)
MTG XXXX	(any 3000, 4000, or 5000 level course)

any mathematics Honors courses that are approved for this purpose by the Department Standards Committee.

(Either MAS 3105 or MAS 3106 may be used but not both. Courses may be selected from MAA 4226 and MAA 4227, or MAA 5210 but not both.)

**Other Requirements**

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 6 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**MIDDLE EASTERN STUDIES: Minor**

College of Arts and Humanities

Middle Eastern Studies Program, CNH 411J

Husain Kassim, 407-823-2803

The Middle Eastern Studies minor is designed to complement a student's major area of study. The minor requires a core of Middle Eastern Studies courses as well as a selection of directed electives.

**Credit Hour Requirements** 21 hrs

**Required Courses** (9 hrs)

CPO 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)

ARA 2200	Intermediate Arabic Language and Civilization I
ASH 3222	Islam and Its Empires
ASH 5227	The Arab-Israeli Conflict
CPO 4710	Women in Comparative Politics
HBR 2200	Intermediate Modern Hebrew I
HUM 3553	Moses, Jesus and Muhammad
JST 3401	The Jewish People I
JST 3402	The Jewish People II
JST 3820	Modern Hebrew Culture
PHH 3200	Medieval Philosophy
REL 2300	World Religions

Additional courses may be used only with prior permission of the program director. Although not required, students are strongly encouraged to complete at least one year of Arabic (ARA 1120, 1121) and/or Hebrew (HBR 1120, 1121).

**Other Requirements**

- Students who are also minoring or completing a certificate in Judaic Studies may not have more than 3 credits that are counted in both programs
- At least 15 hours used to satisfy this minor must be at the upper division.
- A grade of "C" or above (2.0) is required in each course for the minor.

## Minors

- 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.

### MILITARY SCIENCE: Minor

#### College of Engineering and Computer Science

##### Army ROTC, BLDG 501

LTC Allison R. Reinwald, 407-823-2430

#### Credit Hour Requirements 19 hours

##### Required Courses

MSL 3201C	Leadership and Problem Solving	4 hrs
MSL 3202C	Leadership and Ethics	4 hrs
MSL 4301C	Leadership and Management	4 hrs
MSL 4302C	Officership	4 hrs

Select one of the following: (3 hrs)

AMH 3541	U.S. Military History to 1900
AMH 3547	U.S. Military History since 1900

##### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor

### MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor

#### Burnett College of Biomedical Sciences

##### Department of Molecular Biology and Microbiology,

HPA2 335, 407-823-5932

Chair: P.E. Kolattukudy

#### Credit Hour Requirements 30 hrs

##### Required Courses

BSC 2010C	Biology I	4 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3233	Immunology or	
PCB 4239	Molecular Immunology	3 hrs
PCB 3233L	Immunology Laboratory	1 hr
PCB 3522	Molecular Biology I	3 hrs
PCB 4524	Molecular Biology II	3 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs

##### Restricted Electives (7 hrs)

At least two courses from the Restricted Elective category of the baccalaureate curriculum.

##### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor

### MUSIC: Minor

#### College of Arts and Humanities

##### Department of Music, CNH 205

<http://www.cas.ucf.edu/music/moore>

music@ucf.edu

TBA, 407-823-2869

#### Credit Hour Requirements 18 hrs

##### Required Courses

MUT 1111	Music Theory IA	2 hrs
MUT 1112	Music Theory IB	2 hrs
MUT 1241	Ear Training and Sight Singing IA	1 hr
MUT 1242	Ear Training and Sight Singing IB	1 hr
MUL 2010	Enjoyment of Music	3 hrs

##### Restricted Electives (9hrs)

Restricted electives must be taken from the Department of Music at UCF and must

include 3 hours minimum at the 3000 or 4000 level. Secondary lessons can be used for electives contingent on a successful audition and approval of the department chair.

MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT (any course) 6 hrs

(on the same performance medium)

MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT 3 hrs

(3000 or 4000 level course)

##### 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.

### NORTH AMERICAN INDIAN STUDIES: Minor

#### College of Sciences

##### Department of Anthropology, PH 403

[http://www.cas.ucf.edu/soc\\_anthro](http://www.cas.ucf.edu/soc_anthro)

E-mail: [anthropology@ucf.edu](mailto:anthropology@ucf.edu)

Contact: Rosalyn Howard, 407-823-2227

The North American Indian Studies minor will develop a more sophisticated understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

##### Minor Requirements:

- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

#### Credit Hour Requirements (18 hrs)

##### Required Courses

ANT 4910 Research 3 hrs

##### Restricted Electives

(15 hrs)

Courses used in the minor must be taken in at least two departments. Select from the following list.

ANT 3245	Religions of the N Amer Indians
ANT 3313	Indians of the N Amer High Plains
ANT 3311	Indians of the SE United States
ANT 3158	Florida Archaeology
ANT 4906	Independent Study
ANT 3314	Indians of the NE Woodlands
ANT 3312	Ethnology of N Amer Indians
ANT 3316	Black/Seminole Relations
ANT 43320	Indians of the Southwest
ANT 3318	Indians of the Northwest Coast
AMH 3441	History of the Frontier: E America
AMH 4110	Colonial America
AMH 4112	The Atlantic World
AML 3640	Native American Literature
ANT 4144	Prehistory of North America
ANT 4153	North American Archaeology
PHH 3701	North American Philosophy
SYD 3752	Modern Law in Indian Country
SYD 3751	N Amer Indian Women Today

##### 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 Sciences

##### Nicholson School of Communication, COM 258

407-823- 2852

<http://www.cas.ucf.edu/communication>

E-mail: [communication@ucf.edu](mailto:communication@ucf.edu)

Contact: Susan Jefferson

Not open to Interpersonal/Organizational Communication majors.

#### Credit Hour Requirements 21 hrs

##### Required Courses

COM 3120	Organizational Communication	3 hrs
COM 3311	Communication Research Methods	3 hrs

**Restricted Upper Division Electives (15 hrs)**

- COM 3011C Communication and Human Relations
- COM 3110 Business and Professional Communication
- SPC 4426 Group Dynamics
- COM 4461 Intercultural Communication
- COM 4462 Conflict Management
- Independent study or Special Topics course if approved by the coordinator prior to enrolling in the class

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used toward the minor with prior approval.

**PHILOSOPHY: Minor**

**College of Arts and Humanities  
Department of Philosophy, CNH 411  
<http://www.cas.ucf.edu/philosophy>  
[philosophy@ucf.edu](mailto:philosophy@ucf.edu)**

Jennifer Mundale, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to philosophical themes related to knowledge, responsibility, and society. Students, in consultation with a departmental advisor, will select courses in accordance with the distributions listed below.

**Credit Hour Requirements 21 hours**  
**Core Requirements (15 hrs)**

Select one course from each of the following groups:

**Reasoning (3 hours)**

- PHI 2011 Philosophical Reasoning
- PHI 2101 Critical Thinking
- PHI 2108 Formal Logic I
- PHI 2647 Logic and Ethics
- PHI 3131 Formal Logic II

**History of Philosophy (3 hours)**

- PHH 3100 Ancient Philosophy
- PHH 3200 Medieval Philosophy
- PHH 3460 Modern Western Philosophy
- PHH 3600 Contemporary Philosophy

**Values and Society (3 hours)**

- PHI 3670 Ethical Theory
- PHI 3626 Advanced Ethics in Science and Technology
- PHI 3401 Philosophy of Law
- PHI 3800 Aesthetics
- PHM 3123 Feminist Theories
- PHI 3638 Ethical Issues in the 21<sup>st</sup> Century
- PHI 3625 Virtual Ethics
- PHI 4633 Ethics and Biological Science
- PHM 3100 Freedom and Justice
- PHI 3640 Environmental Ethics
- PHM 4031 Environmental Philosophy
- PHH 3701 Native American Philosophy
- PHI 3805 Contemporary Aesthetics

**Being and Knowing (3 hours)**

- PHI 4500 Metaphysics
- PHI 4341 Ways of Knowing
- PHI 4300 Theories of Knowledge
- PHI 3700 Philosophy of Religion
- PHI 4400 Philosophy of Science
- PHI 3320 Philosophy of Mind
- PHI 3451 Philosophy of Psychology
- PHI 4420 Philosophy of Social Science
- PHI 3323 Minds and Machines
- PHP 4782 Phenomenology
- PHI 4221 Philosophy of Language

**Topics in Philosophy (3 hours)**

- PHI 4931 Philosophy in the News
- PHI 3683 Philosophy of Friendship
- PHI 4321 Philosophies of Embodiment
- PHI 3648 Ethical Issues of the Human Genome Project
- PHI 3022 Sexuality, Gender and Philosophy
- PHI 3033 Philosophy, Religion and the Environment
- PHI 4804 Critical Theory
- PHP 3783 Modernity as a Philosophical Problem
- PHI 3750 Problem of Evil
- PHI 3720 Faith and Reason
- PHI 3803 Philosophy and Creativity

- PHI 3941 Philosophy Practicum
- REL 3111 Religion and Philosophy through Film
- PHP 3786 Existentialism

**Upper Division Restricted Electives (6 hours)**

Must consult an advisor for approved courses in this area.  
Note: Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by departmental advisor.

**Other Requirements**

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Chair.
- Any substitutions must be approved by the department prior to being taken.

**PHILOSOPHY, RELIGION AND**

**POPULAR CULTURE: Minor**

**College of Arts and Humanities  
Department of Philosophy, CNH 411  
<http://www.cas.ucf.edu/philosophy>  
[philosophy@ucf.edu](mailto:philosophy@ucf.edu)**

Advisor (UCF Orlando Campus) Bruce Janz, 407-823-2273

Fax: 407-823-6658;

Advisor (Cocoa Campus) Shelley Park, 321-433-7919

The Philosophy, Religion, and Popular Culture minor examines popular culture through the critical lenses of philosophy and religious studies. Students interested in the Liberal Studies major may find this minor particularly helpful. In consultation with a departmental advisor, students will select courses in accordance with the distributions listed below.

**Credit hour requirements 21 hours**

Note: Appropriate special topics in philosophy or humanities may be substituted for some core courses with prior approval by department advisor.

**Theoretical Foundations (6 hrs)**

- PHI 3684 Ways of Living
- PHI 4341 Ways of Knowing

**Philosophy (3 hrs)**

Select at least one course:

- PHI 2101 Critical Thinking
- PHI 3670 Ethical Theory
- PHI 3700 Philosophy of Religion
- PHI 3800 Aesthetics
- PHM 3100 Freedom and Justice
- PHI 3720 Faith and Reason
- PHP 3786 Existentialism
- PHI 4804 Critical Theory
- PHI 4300 Theories of Knowledge

**Religion (3 hrs)**

Select at least one course:

- CLA 3851 Comparative Mythology
- HUM 3552 Christian Thought
- HUM 3553 Moses, Jesus, and Mohammed
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 4303 The Spiritual Ideal
- HUM 4554 Religious Quest and Human Dilemma
- PHI 3750 The Problem of Evil

**Popular Culture Studies (9 hrs)**

**A. Contemporary Media**

Select at least one course:

- HUM 3320 Contemporary Multicultural Studies
- HUM 4556 Religion and the Arts
- HUM 4330 Performance Theory
- PHI 3625 Virtual Ethics
- PHI 4931 Philosophy in the News
- POS 3235 Mass Media and Politics
- POS 3258 Politics in Film
- REL 3115 Religion, Spirituality and Popular Music

## Minors

REL 3111 Religion and Philosophy through Film  
SYP 3630 Sociology of Popular Culture

### B. Contemporary Forms of Life

Select at least one course:

ANT 3302 Sex, Gender and Culture  
HUM 3252 Contemporary Humanities  
PHI 3022 Sex, Gender and Philosophy  
PHI 3629 Family Values  
PHI 3033 Philosophy, Religion and the Environment  
PHM 3401 Philosophy of Law  
PHI 3638 Ethical Issues in the 21<sup>st</sup> Century  
PHI 3683 Philosophy of Friendship  
PHM 3123 Feminist Theories  
PHI 4321 Philosophies of Embodiment: Mind/Body/Self  
REL 3131 Religion In America  
REL 3162 Healing Culture, Art, and Praxis

#### Other Requirements

- A "C" (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department
- No credit by exam (TSD, Military credit) may be used
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

### PHYSICS: Minor

College of Sciences

Department of Physics, MAP 310

<http://www.physics.ucf.edu>

[physics@ucf.edu](mailto:physics@ucf.edu)

Ralph Llewellyn, 407-823-2325

#### Credit Hour Requirements

20 hrs

Required Courses (11 hrs)

PHY 2048 Physics for Eng and Sci I 3 hrs  
PHY 2048L Physics Laboratory for Eng and Sci I 1 hr  
PHY 2049 Physics for Eng and Sci II 3 hrs  
PHY 2049L Physics Laboratory for Eng and Sci II 1 hr  
PHY 3101 Physics for Eng and Sci III 3 hrs

Restricted Upper Division Electives (9 hrs)

Selected from upper-level Physics lecture or laboratory courses appropriate for majors

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.

### POLITICAL SCIENCE: Minor

College of Sciences

Department of Political Science, CNH 415

<http://www.cas.ucf.edu/politicalscience>

E-mail: [politics@ucf.edu](mailto:politics@ucf.edu)

Contact: Roger Handberg, 407-823-2608

#### Credit Hour Requirements

18 hrs

Required Course (3 hrs)

POS 2041 American National Government 3 hrs

Restricted Upper Division Electives (15 hrs)

- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be used.

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.

### POLITICAL SCIENCE/PRELAW: Minor

College of Sciences

Department of Political Science, CNH 415

<http://www.cas.ucf.edu/politicalscience>

[politics@ucf.edu](mailto:politics@ucf.edu)

Roger Handberg, 407-823-2608

Contact: Roger Handberg, 407-823-2608

#### Credit Hour Requirements

18 hrs

Required Courses

POS 2041 American National Government 6 hrs  
POS 4284 Judicial Process and Politics 3 hrs

Restricted Elective (3 hrs)

INR 4401 International Law I  
INR 4402 International Law II  
POS 4603 American Constitutional Law  
POS 4604 American Constitutional Law II

Restricted Upper Division Electives (9 hrs)

- Three Upper Division Political Science Courses (selected with the aid of a departmental advisor)
  - Only three hours of POS 4941 (Internship) may be counted
- #### Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
  - Grades below "C" (2.0) in lower level courses are not accepted.
  - At least 12 hours used in the minor must be earned at UCF within the department.
  - No credit by exam (TSD, Military credit) may be used.
  - Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

### PSYCHOLOGY: Minor

College of Sciences

Psychology Department, PH 302

<http://www.psych.ucf.edu/>

E-mail: [psychology@ucf.edu](mailto:psychology@ucf.edu)

Contact: Psychology Advising Center,

PH 305G, 407-823-2219

The Psychology Department minor permits emphasis of several areas; Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. When designing a minor, select courses which strengthen graduate school preparation and/or employment potential. Emphasis areas will not appear on the transcript.

#### Credit Hour Requirements

22 hrs

Required Courses (10 hrs)

PSY 2012 General Psychology 3 hrs  
STA 2014C Principles of Statistics *or* 3 hrs  
STA 2023 Statistical Methods I 3 hrs  
PSY 3213C Research Methods in Psychology 4 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, HPA2 238

Mr. Robert Morin, 407-823-2604

E-mail: [rmorin@mail.ucf.edu](mailto:rmorin@mail.ucf.edu)

Credit Hour Requirements (18 hrs)

Required Courses (18 hrs)

PAD 3003 Public Admin in American Society 3 hrs  
PAD 4034 The Administration of Public Policy 3 hrs  
PAD 4104 Administrative Theory 3 hrs  
PAD 4204 Fiscal Management 3 hrs  
PAD 4414 Public Personnel Administration 3 hrs  
PAD 4720 Survey Research in Public Admin 3 hrs

#### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 ("C") to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without prior approval.

**REAL ESTATE: Minor**

**(Open to Business and Non-Business Students)**

**College of Business Administration**

**Department of Finance, BA 409**

**<http://www.bus.ucf.edu/finance>**

**Credit Hour Requirements**

**18 hrs**

**Prerequisite Courses**

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics

**Required Courses**

**(12 hrs)**

FIN 2104	Personal Finance and Investments	3 hrs
FIN 3403	Business Finance	3 hrs
REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs

**Electives**

**(6 hrs)**

REE 4103	Real Estate Appraisal and Valuation	3 hrs
REE 4204	Residential Real Estate Finance	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs
REE 4732	Real Estate Development	3 hrs
REE 4xxx	Commercial Real Estate Finance	3 hrs

**Other Requirements**

- A student minoring in real estate must earn a grade of "C" (2.0) or higher in each course applied toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A maximum of 6 hours of required or elective coursework (from Required Courses and Electives above) can count toward another major or minor degree program.

**RELIGIOUS STUDIES: Minor**

**College of Arts and Humanities**

**Philosophy Department, CNH 411**

**<http://www.cas.ucf.edu/philosophy>**

**[philosophy@ucf.edu](mailto:philosophy@ucf.edu)**

Shaun Gallagher, 407-823-2273

The religious studies minor provides a limited yet coherent range of courses which introduce the student to a range of religious institutions and ideas. Courses are drawn from the departments of Anthropology & Sociology, Art, English, History, Judaic Studies, Philosophy, Political Science, and Psychology, and are to be selected in consultation with the Religious Studies advisor.

**Credit Hour Requirements**

**21 hrs**

**Required Courses**

**(3 hrs)**

REL 2300	World Religions	3 hrs
----------	-----------------	-------

**Restricted Electives**

**(18 hrs)**

See department website for approved list of courses

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Director.

**SECURE COMPUTING AND NETWORKS (SCAN):**

**Interdisciplinary Minor**

**College of Engineering and Computer Science**

**CECS Academic Affairs, ENGR 107**

Kim Small, 407-823-2455; [ksmall@mail.ucf.edu](mailto:ksmall@mail.ucf.edu)

<http://www.cecs.ucf.edu>

**Credit Hour Requirements**

**18 hrs**

**Required Courses**

**(9 hrs)**

CIS 3360	Security in Computing	3 hrs
CIS 3362	Cryptography and Information Security	3 hrs

**Select one:**

CDA 4506	Network Labs	3 hrs
CDA 4527	Computer Communications Network	3 hrs
CET 4483	Local Area Networks	3 hrs
EEL 4781	Computer Networks	3 hrs

**Elective Courses**

**(9 hrs)**

Select any three courses from the following list:

**Network Security:**

CET 4663	Computer and Network Security, or	3 hrs
CIS 4363	Network Security and Privacy	
CET 4882	Network Defense Strategies	3 hrs

**Security Management and Administration:**

CET 4XXX	Practice of Information Security	3 hrs
CET 4884	Security Methods & Practices	3 hrs
CET 4885	Investigative Digital Technology	3 hrs

**Secure Software:**

CIS 4361	Secure Operating Systems and Administration	3 hrs
CIS 4615	Secure Software Development and Assurance	3 hrs
COP 4600	Operating Systems	3 hrs

**Other Requirements**

- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor
- Pre-requisites to the minor include Programming in C (COP 3223, EGN 3211, CET 2364, or an equivalent) and Math for Calculus (MAC 2147), or equivalent
- No credit by exam (TSD, Military credit) may be used
- Internship, Co-op, or Independent Study credit cannot be used toward the minor

**SOCIAL SCIENCES - INTERDISCIPLINARY: Minor**

**Office of Undergraduate Studies**

**Office of Liberal & Interdisciplinary Studies**

**<http://liberalstudies.info>**

**E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)**

Liberal Studies Advising Team, 407-823-0144

**Credit Hour Requirements**

**21-22 hrs**

**Required Courses**

**(3-4 hrs)**

One method course, selected from the three immediately below	
POS 3703	Scope and Methods of Political Science
PSY 3213C	Research Methods in Psychology
SYA 4300	Research Methods

**Restricted Electives**

**(18 hrs)**

Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.

Communication
Economics
Political Science
Public Administration
Psychology
Sociology & Anthropology

**Other Requirements**

- Students must earn a grade "C" or above (2.0) in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- At least 18 hours must be upper division classes
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

## Minors

### SOCIOLOGY: Minor

#### College of Sciences

#### Department of Sociology & Anthropology, PH 403

[http://www.cas.ucf.edu/soc\\_anthro](http://www.cas.ucf.edu/soc_anthro)

[sociology@ucf.edu](mailto:sociology@ucf.edu)

Contact: Jay Corzine, 407-823-2227

#### Credit Hour Requirements 18 hrs

##### Required Courses (3 hrs)

SYG 2000 General Sociology 3 hrs

##### Restricted Electives (3 hrs)

2000-4000 level Sociology courses

##### Restricted Upper Division Electives (12 hrs)

3000-4000 level Sociology courses

#### Other Requirements

- Earn a minimum GPA of at least 2.0 in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Co-op or internship credit cannot be used toward the minor.
- No more than 3 hours of Independent Study credit can be used toward the minor.

### SPACE STUDIES: Minor

#### College of Engineering and Computer Science

#### Department of Mechanical, Materials and Aerospace

#### Engineering, ENGR 307

R.H. Chen, 407-823-2416

Fax 407-823-0208

In response to the needs of the Central Florida space community, UCF offers a multidisciplinary Minor in Space Studies. It is intended for students of all disciplines and includes courses from aerospace engineering, electrical engineering, environmental engineering, instructional programs, physics, physical education, and political science.

#### Credit Hour Requirements 21 hrs

##### Required Courses (9 hrs)

AST 2002 Astronomy 3 hrs

EGN 2815C ST: Space Science and Technology 3 hrs

GEO 4035C Remote Sensing of the Environment 3 hrs

##### Restricted Electives (12 hrs)

EAS 3010 Fundamentals of Aerospace Flight

EAS 3101 Fundamentals of Aerodynamics

EAS 3530 Space Systems Concepts

EAS 4505 Orbital Mechanics

EGN 4830 Telecommunications

GEO 1200 Physical Geography

GEO 2370 Resources Geography

INR 4404 Space Law

PET 4351C Applied Exercise and Human Physiol

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.

### SPANISH: Minor

#### College of Arts and Humanities

#### Modern Languages and Literatures, CNH 523

<http://www.cas.ucf.edu/forlang/>

[modernlanguage@ucf.edu](mailto:modernlanguage@ucf.edu)

P. Giordano, 407-823-2472

#### Credit Hour Requirements 18 hrs

##### Restricted Electives

- Select six upper division courses in Spanish, including the 3000-level advanced grammar (SPN 3300), advanced oral communication (SPN 3760), and composition courses (SPN 3420).

- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

#### Other Requirements

- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

### SPORT BUSINESS MANAGEMENT: Minor

#### (\*Business Majors, Business Undecided, and Business Pending only)

#### College of Business Administration

#### DeVos Sports Business Management, BA2 205

F. Polite, 407-823-1158

e-mail: [fpolite@bus.ucf.edu](mailto:fpolite@bus.ucf.edu)

Completion of Common Program Pre-requisites and Admission to a major within the College of Business

#### Administration

#### Credit Hour Requirements 18 Hrs

##### Required Courses 9 Hrs

SPB 3003 Introduction to Sport Business Management 3 Hrs

SPB 3603 Diversity and Social Issues in Sport Business Management 3 Hrs

SPB 3503 Ethics in Sport Business 3 Hrs

##### Restricted Electives 9 Hours

SPB 4304 Event and Facility Management 3 Hrs

SPB 4404 Sport Business Law 3 Hrs

SPB 4804 Sport Business and Media 3 Hrs

SPB 4704 Sport Business Strategy 3 Hrs

MAR 4711 Sports Marketing 3 Hrs

MAR 3023 Marketing 3 Hrs

#### Other Requirements:

- A minimum GPA of 2.5 is required in all courses to satisfy the minor.
- Grades below "B" (3.0) or "S" grades from other institutions are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the DeVos Sport Business Management Program.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit hours cannot count toward the minor.

\*Students can take any minor courses if they are a Business major. If they are Business Undecided or Business Pending, they can take the three required courses (SPB 3003, SPB 3603 and SPB 3503). At the time of graduation, students will have to be a Business major to qualify for a minor in Sport Business Management.

### STATISTICS: Minor

#### College of Arts and Sciences

#### Statistics and Actuarial Science Department, CC II 212

<http://www.cas.ucf.edu/statistics>

[statistics@ucf.edu](mailto:statistics@ucf.edu)

Nizam Uddin, 407-823-5525

#### Credit Hour Requirements 18 hrs

##### Required Courses (9 hrs)

Select one course 3 hrs

STA 2023 Statistical Methods I or

STA 3032 Probability and Statistics for Engineers

STA 4163 Statistical Methods II 3 hrs

STA 4164 Statistical Methods III 3 hrs

##### Restricted Upper Division Electives (9 hrs)

Select from upper division STA prefix courses taught within the

Statistics and Actuarial Science Department.

(STA 3032 cannot be used)

#### Other Requirements

- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.



- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

### TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor

#### College of Education

#### Department of Teaching and Learning Principles, ED 209

<http://reach.ucf.edu/~technical/>

Dr. Jo Ann M. Whiteman, ED 122-T, 386-506-4041

Email: [jwhitema@mail.ucf.edu](mailto:jwhitema@mail.ucf.edu)

The minor in Technical Education and Industry Training provides a limited, but substantive experience in the area of technical education and industry training of adults. The minor is not intended for students admitted to a degree program in the College of Education and does not lead to teacher certification or admission to the College of Education. All courses are offered solely using the Web.

<b>Credit Hour Requirements</b>	<b>18 hrs</b>
<b>Entrance requirements</b>	Junior standing
<b>Required courses</b>	<b>18 hrs</b>
ADE 4382	Teaching Adult Learners 3 hr
EVT 4368	Advanced Teaching Techniques in Vocational Education 3 hr
EVT 3062	Professional role of the Vocational Teacher 3 hr
EVT 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.

<b>Credit Hour Requirements</b>	<b>18 hrs</b>
<b>Suggested Prerequisite Courses</b>	

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 within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
- Prerequisites for any course must be met prior to enrollment. Some courses may have prerequisites not required for the student's major/minor.

### THEATRE - GENERAL: Minor

#### College of Arts and Humanities

#### Theatre Department, UTC 180

<http://www.theatre.ucf.edu>

[theatre@ucf.edu](mailto:theatre@ucf.edu)

Kristina Tollefson, 407-823-2862

<b>Credit Hour Requirements</b>	<b>27 hrs</b>
---------------------------------	---------------

#### Entrance Requirement

A successful interview

<b>Required Courses</b>	<b>(27 hrs)</b>
-------------------------	-----------------

Note: The number assigned many courses will change.

Use the Prefix and title to determine the proper course.

THE 2000	Theatre Survey	3 hrs
THE 2090L*	Theatre Participation - Management I	1 hr
THE 2304	Script Analysis	3 hrs
TPA 2290L	Theatre Participation - Production I	1 hr
TPP 2190*	Theatre Participation - Performance I	1 hr
THE 3110	Theatre History I	3 hrs
THE 3111	Theatre History II	3 hrs
THE 3305	Dramatic Literature I	3 hrs
THE 2271	Performance Studies	3 hrs
THE 3306	Dramatic Literature II	3 hrs
TPA 2201	Technical Theatre Production	2 hrs
TPA 2201	Technical Theatre Production Lab	1 hr

\* Course must be taken at UCF

#### Other Requirements

- Participation on a minimum of one departmental production during both the Fall and Spring terms for four semesters
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 18 hours used in the minor, including those marked by an asterisk, must be earned at UCF 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.

### URBAN AND REGIONAL PLANNING: Minor

#### College of Health and Public Affairs

#### Department of Public Administration, HPA2 238

Mr. Robert Morin, 407-823-1190

Email: [rmorin@mail.ucf.edu](mailto:rmorin@mail.ucf.edu)

Fax: 407-823-5651

Urban and regional planning is one area of public administration that has seen considerable growth over the past few years. Areas like Central Florida need many professionals who assist government, communities, and private sector planning organizations to provide growth that is environmentally feasible, aesthetically attractive, socially and politically acceptable, technically sustainable, and economically dynamic. This minor looks at all of these diverse and competing interests, and provides the basics for those interested in employment in this area of great demand. Students who pursue a minor in urban and regional planning may find positions as a city planner, urban designer, planning specialist, environmental program manager, or economic development specialist, among others.

<b>Credit Hour Requirements</b>	<b>21 hrs</b>
<b>Required Courses</b>	<b>(21 hrs)</b>

PAD 3330	Urban and Regional Planning	3 hrs
PAD 4712	Information Systems for Public Managers and Planners	3 hrs
PAD 4331	Land Use and Planning	3 hrs
PAD 4334	Urban Design	3 hrs
PAD 4253	Community and Economic Development	3 hrs
PAD 4351	Issues in Environmental Program Management	3 hrs

## Minors

PAD 4803 Issues in Urban Administration 3 hrs

### Suggested Courses

Students in the Minor program are strongly encouraged to take the following courses as electives to enhance their understanding of the field.

PAD 4110 Intergovernmental Relations  
PAD 4390 Hazard Mitigation and Preparedness  
PAD 4392 Emergency Mgmt/Homeland Security

### Other Requirements

- A minimum grade of "C" (2.0) is required in each course used to satisfy the minor.
- At least 15 hours used to satisfy the minor must be earned at UCF within the department.
- Internship or Independent Study credit cannot be used toward the minor.
- No credit by exam (TSD, Military credit) may be used.

## WOMEN'S STUDIES: Minor

### College of Arts and Humanities

<http://www.cas.ucf.edu/womensstudies>

L. M. Logan, 407-823-6502,

Email: [womenst@ucf.edu](mailto: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 critically on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments of Art, Communications, Criminal Justice, English, Exceptional and Physical Education, Health Professions and Physical Therapy, History, Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology and Anthropology, and Theatre.

### Credit Hour Requirements

#### Required Core Courses

WST 3015 Introduction to Women's Studies 3 hrs  
Select one course: 3 hrs

PHM 3123 Feminist Theories  
LIT 4554 Advanced Feminist Theories  
WST 3561 Third Wave Feminisms

#### Upper Division Electives

Student must select 2 courses from 2 of the 4 areas below: (12 hrs)\*

#### Women's History

AMH 3561 Women in American History I  
AMH 3562 Women in American History II  
ASH 4304 Women in China  
EUH 4610 Women in European Society

#### Representations of Women

AML 3283 Contemporary American Women's Fiction  
ARH 4892 Women in Art  
COM 4014 Gender Issues in Communication  
FIL 3309 Women in Film  
LIT 3383 Women in Literature  
PHI 3022 Sexuality, Gender & Philosophy  
WST 3460 Womanist Studies

#### Women's Wellness

NUR 4936 Women's Health Issues  
PEM 2405 Self Defense for Women and Men  
SOP 2772 Sexual Behavior  
SOP 3742 Psychology of Women

#### Women and Social Policy

ANT 3302 Sex, Gender and Culture  
ANT 4308 Women and Gender Issues in Lat Am  
CCJ 4670 Women and Crime  
CCJ 4681 Domestic Violence and Justice System  
CPO 4710 Women and Comparative Politics  
INR 4085 Women, Gender, and Globalization  
PUP 4323 Women and Public Policy  
SYD 3800 Sex Roles in Modern Society  
SYD 4810 Women in Contemporary Society  
SYO 4100 Family Trends  
WST 3500 Gender Issues in Community Activism

\* 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 of "D+" or below will not be counted toward the Women's Studies Minor.
- At least 12 hours used in the minor must be earned at UCF.

## WORLD COMPARATIVE STUDIES: Minor

### Office of Undergraduate Studies

### Office of Liberal and Interdisciplinary Studies

<http://liberalstudies.info>

E-mail: [ls@mail.ucf.edu](mailto:ls@mail.ucf.edu)

Liberal Studies Advising Team, 407-823-0144

The World Comparative Studies (WCS) minor is an interdisciplinary academic program intended to prepare students to live and work in, and make sense of, an increasingly interdependent and multicultural world. Students with an interest in international studies, as well as careers in business, communications, economics, education, environmental science, history, and politics, are invited to consider the minor as a supplement to their major.

All students must engage in an approved international experience. The language proficiency requirement must also be met.

**Total Credit Hour Requirements (18 hrs)**

**Foundation Requirement (3 hrs)**

IDS 3XXX World Comparative Studies

**Thematic Concentrations Restricted Electives (15 hrs)**

Select five courses from within one of the concentrations (A-F) below. Courses not on the list may be taken with the prior approval of the program advisor. Students must meet all prerequisites before enrolling in these courses. No more than 6 hours of coursework may overlap in a student's major and this minor, with permission of the Liberal Studies office. Two upper division foreign language courses (6 hours) may be substituted in any of the thematic concentrations.

#### A. Language and Culture

AML 3615 Harlem, Haiti, and Havana  
ANT 3640 Language and Culture  
ANT 3145 Archaeology of Complex Societies  
ANT 3319 The Anthropology of Diaspora  
ANT 3212 Peoples of the World  
ANT 4702 Culture, Power and Development  
FSS 3008 Culture and Cuisine  
HFT 4866C Exploring Wines of the World  
HFT 3868 History and Culture of Wine  
HFT 4894 International Gastronomy  
HUM 3419 Islamic Thought and Culture

**Regional courses:** Students may take up to two courses dealing with at least two regions of the world in consultation with academic advisor.

#### B. Economics

ANT 4702 Culture Power and Development  
ECO 3703 International Trade  
ECO 4xxx International Macroeconomics  
ECO 4701 Seminar in Global Economic Policy  
ECS 4013 Economics of Developing Areas  
ECP 3303 Economics and the Environment  
HFT 3700 Tourism Management  
INR 4035 International Political Economy

#### C. Biological and Geophysical Environment

IDS 3150 Foundations of Environmental Studies  
ECP 3303 Economics and the Environment  
SYD 4510 Environmental Sociology  
HFT 4735 Tourism Geography  
INR 4351 International Environmental Law  
ENV 3001 Intro to Environmental engineering  
GIS 3043C GIS for Environmental Studies  
GIS 4035C Remote Sensing of the Environment  
PHI 3033 Philosophy, Religion, and the Environment  
PHI 3640 Environmental Ethics

#### D. Social Structure and Change

ANT 3145 Archaeology of Complex Societies  
ANT 3273 Law and Culture  
ANT 4702 Culture Power and Development  
PLA 4830 World Legal Systems  
SOW 5109 Violence Against Women  
SYP 4454 Sociology of the Global System

**E. Media and Communication**

FIL 3510	World Cinema Traditions
FIL 3514	International Cinema
FIL 4564	Africana Cinema
COM 4461	Intercultural Communication
LIN 4643	Cross Cultural Communication
THE 3312	Global Theater

**F. World Independent Specialization**

Any five upper division courses from the approved list of courses in any thematic concentration may be selected for this option with approval of the Liberal Studies office.

**Foreign Language Proficiency Requirement (0-8 hrs)**

Students must demonstrate the equivalent of one year of successful college-level study in a foreign language. They can do this either by successful completion of the appropriate college-level course(s) or by examination.

**ADDICTIONS: Certificate**

**College of Health and Public Affairs  
School of Social Work, HPA1 204**

BSW Coordinator, 407-823-2114  
socialwk@mail.ucf.edu

This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the

workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida but not the certificate program.

**Admission Requirement:**

This Certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addictions courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida. Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements: 12 hrs**

**Required Courses:**

SOW 4706	Interventions with Substance Abusers	3 hrs
SOW 3352	Practice II: Interpersonal Skills	3 hrs
SOW 4341	Micro-Level Roles and Interventions	3 hrs

**Restricted Electives:**

Select from one of the following:

SOW 4705	Prevention and Treatment of Adolescent Substance Abuse	3 hrs
SOW 4906	Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses)	3 hrs
CCJ 4651	Drugs and Crime	3 hrs

**CERTIFICATES**

**AGING STUDIES: Certificate**

**College of Health and Public Affairs  
School of Social Work, HPA1 204**

BSW Coordinator, HPA1 204, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. All students must contact the coordinator for planning their internship. Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements 15 hrs**

Required Course	3 hrs
GEY 3001 Gerontology: Interdisciplinary Overview	3 hrs

**Required Internship: (Select one) 3 hrs**

SOW4510	Field Education	9 hrs
HSA 4941	Internship	3 hrs
PSY3951	Internship	3 hrs
SYP 4941	Internship	3 hrs

**Electives (9 hrs)**

- Students select **three** additional courses from the following: (a maximum of **two** courses in their College and at least **one** course must be outside their college).

**College of Health and Public Affairs**

HSA 4220	Long Term Care	3 hrs
HSA 3222	Long Term Administration	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
NUR 4286	Gerontologic Nursing	3 hrs
PLA 4932	Legal Issues of the Elderly	3 hrs
SOW 4645	Social Services for the Elderly	3 hrs

**Other Colleges:**

DEP 3464	Psychology of Aging	3 hrs
SYP 4730	Sociology of Aging	3 hrs
GEY 3930/	Women and Aging	3 hrs

SYP 3930	Literature of Aging	3 hrs
LIT 3930	Minority Aging	3 hrs
SYP 4734		

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit), may be used.
- Independent Study cannot be used toward the minor.

**AMERICAN SIGN LANGUAGE (ASL): Certificate**

**College of Health and Public Affairs  
Department of Communicative Disorders,  
HPA-2, Suite 101**

<http://www.cohpa.ucf.edu/comdis>

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798

Email: jschwart@mail.ucf.edu

This certificate is designed to provide students with the conversational competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for undergraduate students majoring in Communicative Disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and, the general public who wish to enhance their ability to communicate with the deaf community and to enhance their employment potential.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements 16 hrs**

<b>Required Courses</b>		
SPA 4612	Introduction to American Sign Language	4 hrs
SPA 4613	Intermediate American Sign Language	4 hrs
SPA 4614C	American Sign Language III	4 hrs
SPA 4615	American Sign Language IV	4 hrs

## Certificates

### Other Requirements

- A minimum grade of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 8 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the certificate.

### BEHAVIORAL FORENSICS: Certificate

#### College of Sciences

#### Psychology Department, PH 302

<http://www.psych.ucf.edu/>

E-mail: [kmottare@ucf.edu](mailto:kmottare@ucf.edu)

Contact: K. Mottarella; 321-433-7892

#### Credit Hour Requirements

27 hrs

#### Prerequisite Courses

(6 hrs)

PSY 2012	General Psychology <i>or</i> GEP	
SYG 2000	General Sociology	
PPE 3003	Personality Theories	3 hrs
SYP 3510	Sociology of Deviant Behavior	3 hrs

#### Required Courses

(12 hrs)

CLP 4390	Forensic Psychology	3 hrs
SOP 3751	Legal Aspects of Psych	3 hrs
SYP 3520	Criminology	3 hrs

#### Select one course:

SYP 3540	Sociology of Law	3 hrs
SYD 4813	Wwomen and Social Policy	3 hrs

#### Restricted Electives

(9 hrs)

Note: It is the student's responsibility to meet all prerequisites for any course selected

#### From Psychology, select one of the following:

CLP 3143	Abnormal Psychology	
CLP 3302	Clinical Psychology	
CLP 4134	Childhood Psychopathology	
PCO 4203	Interviewing and Counseling	

#### From Sociology, select one of the following:

SYP 3511	Sociology of Murder	
SYP 3530	Juvenile Delinquency	
SYP 3562	Soc Perspectives on Domestic Violence	
SYP 4521	Criminal Victimization in Society	
SYP 4514	Sociology of Violence	
SYP 4536	Gangs and Society	

#### From Criminal Justice, select one of the following:

CCJ 3014	Crime in America	
CCJ 3024	Criminal Justice System	
CCJ 4670	Women and Crime	
CJE 4174	Serial Murder & CJ	
CCJ 4616	Criminal Profiling in CJ	
CCJ 3667	Victims and the CJ System	
CCJ 4681	Domestic Violence & the Justice Syst	
CCJ 4690	Sex Offenders & the CJ System	

### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

### CHILDREN'S SERVICES: Certificate

#### College of Health and Public Affairs

#### School of Social Work, HPA1 204

BSW Coordinator, 407-823-2114

This certificate is open only to students in the undergraduate social work program. The Children's Services Certificate is designed to prepare Social Work students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Certificates will be awarded only at the time of degree completion.

### Credit Hour Requirements

18 hrs

#### Required Courses

SOW 3352	Practice II: Interpersonal Skills	3 hrs
SOW 4654	Children's Services	3 hrs
SOW 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.

### CRIME ANALYSIS AND CRIME MAPPING: Certificate

#### College of Health and Public Affairs

#### Department of Criminal Justice and Legal Studies,

#### HPA1 311

Cory Watkins, 407-823-0365

E-mail: [rwatkins@mail.ucf.edu](mailto:rwatkins@mail.ucf.edu)

Crime analysis and crime mapping are now recognized as essential and vital functions in law enforcement. Analysts take advantage of state-of-the-art computer technologies to support operations, investigations, and management. These specialists take data and produce information that is used to identify crime patterns, monitor crime trends, forecast future crime events, prepare statistical crime reports, and work directly with investigators to identify suspects. Five classes (15 credit hours) are required for this undergraduate certificate. Certificates will be awarded only at the time of degree completion.

### Credit Hour Requirements

15 hrs

#### Required Courses (in sequence)

(9 hrs)

CJE 3662	CJ Information Technology and Data Management	3 hrs
CJE 4663	Crime Analysis I	3 hrs
CCJ 4076	Crime Analysis II	3 hrs

#### Restricted Upper Division Electives

(6 hrs)

#### Select two of the following:

CCJ 3451	Justice System Technology	3 hrs
CJE 3444	Crime Prevention	3 hrs
CJE 4654	Crime and Place	3 hrs
CCJ 3450	Criminal Justice Manager	3 hrs
CCJ 4454	Policy Development in Law Enforcement	3 hrs
CCJ 4459	Justice Agency Operations	3 hrs

### Other Requirements

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

### CRIME SCENE INVESTIGATION: Certificate

#### College of Health and Public Affairs

#### Department of Criminal Justice and Legal Studies,

#### HPA1 311; Department of Sociology and Anthropology, PH 403

David Fabianic, 407-823-5940 Dr. Mary Ann Eastep, 407 823-3598

[meastep@mail.ucf.edu](mailto:meastep@mail.ucf.edu) [Fabianic@mail.ucf.edu](mailto:Fabianic@mail.ucf.edu)

John J. Schultz, 407-823-2618

[jschultz@mail.ucf.edu](mailto:jschultz@mail.ucf.edu)

Crime scene processing is increasingly becoming a multi-disciplinary endeavor with the application of technologically advanced methods. Treatment of the initial crime scene is fundamental not only to the pursuit of offenders but also to the presentation of the prosecutor's case once offenders have been apprehended. The certificate program is a means of organizing information required to perform basic crime scene investigations. It provides theoretical and practical information used to assess crime scenes, the technology available and the procedures to employ in order to produce a forensically valuable product. The program requires 15 credit hours of undergraduate work. Certificates will be awarded only at the time of degree completion.

### Credit Hour Requirements

15 hours

#### Required Courses

(12 hrs)

ANT 4521C	Forensic Anthropology	3 hrs
ANT 4101	Archaeological Sciences	3 hrs
CCJ 4616	Criminal Profiling in CJ	3 hrs
CJT 4100	Criminal Investigation	3 hrs

**Restricted Upper Division Electives (3 hrs)**

Select one of the following:		
ANT4528C	Advanced Forensic Anthropology	5 hrs
SYP3511	Sociology of Murder	3 hrs
CJE 4630	Serial Murder and the Criminal Justice System	3 hrs
CCJ 4195	Interviews and Interrogations in CJ	3 hrs
CHS 3501	Introduction to Forensic Science	3 hrs
ANT 3115	Archaeological Method and Theory	3 hrs

**Other Requirements**

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

**CRIMINAL PROFILING: Certificate**

**College of Health and Public Affairs  
Department of Criminal Justice and Legal Studies,  
HPA1 311**

Dr. Mary Ann Eastep, 407 823 -3598  
meastep@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today's law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements 15 hrs**  
**Required Courses (12 hrs)**

CLP 3143	Abnormal Psychology	3 hrs
CJE 4630	Serial Murder and the Criminal Justice System	3 hrs
CCJ 4690	Sex Offenders and the Criminal Justice System	3 hrs
CCJ 4616	Criminal Profiling in Criminal Justice	3 hrs

**Restricted Upper Division Electives (3 hrs)**

Select one of the following:		
CJT 4100	Criminal Investigation	3 hrs
CCJ 4661	Terrorism	3 hrs
CCJ 4195	Interviews and Interrogations in CJ	3 hrs

**Other Requirements**

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the 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**

**Office of Undergraduate Studies  
Office of Liberal and Interdisciplinary Studies  
CL-I, Room 302; <http://liberalstudies.info>**

ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

This certificate harnesses the naturally related fields of tourism to cultural studies, focusing on the specific cultural and business conditions in Central Florida as well as tourism. The certificate complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

**Credit Hour Requirements 18 hrs**  
**Required Courses (12 hrs)**

HFT 3540	Guest Service Management	3 hrs
HFT 3700	Tourism Management	3 hrs
HFT 4735	Tourism Geography	3 hrs
ANT 4438	Anthropology of Tourism	3 hrs

Choose two classes from one of the following areas (6 hrs)

African American Heritage area (choose two classes)		
AFA 3104	The African American Experience	
AFA 4105	Documenting African American Heritage and Life	

SYD 3700	Race and Ethnic Minorities in the United States
Anthropology area (choose two classes)	
ANT 2100	Archaeology and the Rise of Human Culture
ANT 3212	Peoples of the World
ANT 2410	Cultural Anthropology
ANT 3115	Archaeological Method and Theory
ANT 3930	Applied Anthropology
Environmental Tourism area (choose two classes)	
BOT 3152C	Local Flora
PCB 3442	Florida Aquatic Ecology
INR 4351	International Environmental Law
PUP 3203	Environmental Politics
PUP 4204	Sustainability
SYD 4510	Environmental Sociology
Latin American area (choose two classes)	
ANT 3163	Meso American Archaeology
ANT 3168	Maya Archaeology
ANT 3332	Peoples and Cultures of Latin America
ANT 4340	Caribbean Archaeology
ARH 4655	Meso American Art
CPO 4303	Comparative Latin American Politics
LAH 3400	History of Mexico and Central America
LAH 3470	History of the Caribbean
LAH 3130	Latin American History I
LAH 3200	Latin American History II

**Other Requirements**

- A grade of "C" or above (2.0) is required in each course used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit can not be used toward the certificate without prior permission of the program director

**DIGITAL MEDIA: Certificate**

**College of Arts and Humanities  
CREAT Digital Media Program, 500 OTC  
bowers@mail.ucf.edu**

Program Director: Clint Bowers, 407-823-6100

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

**Entrance Requirement**

- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student's creativity and technical accomplishment in some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

**Credit Hour Requirements: 12 hrs**

Required Course: DIG 3525 Digital Media Production I 3 hrs

Restricted Elective: 3 hrs

Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program Director prior to being taken)

Senior Project: 6 hrs

DIG 4524L	Digital Media Project I
IDS 4703	Digital Media Project II

(may be repeated for credit)

**Other Requirements**

- A minimum grade of "C" (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used in the certificate only with prior written permission.

**FINANCE: Certificates\***

**College of Business Administration, BA 409  
<http://www.bus.ucf.edu/finance>**

Restricted to Finance majors

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements 12-15 hrs**

Certificate in Banking 15 hrs	
FIN 4313	Management of Financial Institutions 3 hrs
FIN 4324	Commercial Bank Management 3 hrs
ACG 3131	Financial Accounting Concepts & Analysis 3 hrs

## Certificates

ACG 3141	Intermediate Financial Accounting	3 hrs
MAR 3391	Professional Selling	3 hrs
**FIN 4942	Internship	3 hrs

- An internship must be a paid internship with a financial services firm, and must be approved by the Department of Financial Internship coordinator and a banking faculty member. Both MAR 3391 and FIN 4942 are recommended if the student's schedule allows it.
- No course grade lower than a C will be accepted for the certificate requirements, and the average GPA for the five courses must be 3.0 or higher.

### Certificate in Corporate Finance 12 hrs

FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 3470	Financial Statement Analysis or	3 hrs
FIN 4424	Adv Topics in Financial Management	3 hrs
**FIN 4941	Internship	3 hrs

### Certificate in Investments 12 hrs

FIN 3504	Investment Analysis	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4533	Financial Derivatives	3 hrs
**FIN 4941	Internship	3 hrs

\*Restricted to finance majors. These certificates do not require additional hours beyond the finance major program. They are intended to allow students to develop specializations in specialized areas of interest.

\*\*Internships must be approved internships in the area of specialization, and should be completed in the senior year after completing at least 6 hours of finance courses. Internship packets are available in the Department of Finance (BA 409). Certificate attainment is subject to the availability of internship opportunities in the area of interest. A student must have an overall GPA of at least 2.75 to qualify for an internship.

## JAZZ STUDIES: Certificate

**College of Arts and Humanities**  
**Department of Music, CNH 205**  
<http://www.cas.ucf.edu/music/music@ucf.edu>

K. Koons, 407-823-2869

Certificates will be awarded only at the time of degree completion

This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.M. Music degree, provided that the student works with an advisor in the program.

### Admission Requirement

Student must satisfactorily audition for the Department of Music.

### Credit Hour Requirements 13 hrs

Required Courses <span style="float: right;">(13 hrs)</span>		
MUT 3170	Jazz Theory I	2 hrs
MUT 3171	Jazz Theory II	2 hrs
MUT 3641	Jazz Improvisation I	2 hrs
MUT 3642	Jazz Improvisation II	2 hrs
MUL 2016	Evolution of Jazz	3 hrs
MUS 4932	Independent Study in Jazz	2 hrs

### Other Requirements

- Must complete all course and non-course requirements (recitals and proficiency examinations) of the Music major in order to qualify for the certificate within the degree.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the certificate.
- At least 9 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

## JUDAIC STUDIES: Certificate

**College of Arts and Humanities**  
**Judaic Studies Program, CNH 201**  
[http://www.cas.ucf.edu/judaic\\_studies](http://www.cas.ucf.edu/judaic_studies)  
**E-mail: judaicast@ucf.edu**

Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science,

and Sociology/Anthropology, and with the Liberal Studies and Women's Studies Programs. The certificate in Judaic Studies will be awarded to students completing 15 hours in the following Judaic Studies courses.

### Credit Hour Requirements 15 hrs

#### Language

HBR 1120	Elementary Modern Hebrew Lang and Cult I
HBR 1121	Elementary Modern Hebrew Lang and Cult II
HBR 2200	Intermediate Modern Hebrew Language and Culture I
HBR 2201	Intermediate Modern Hebrew Language and Culture II
HBR 3410	Conversational Israeli Hebrew

#### Jewish History

JST 3401	The Jewish People I
JST 3402	The Jewish People II
JST 3550	Introduction of Modernism into Judaism
JST 3701	History of the Holocaust

#### Bible

JST 3120	Jewish Scriptures
JST 3125	The Book of Job
JST 3126	Romantic Love in the Bible
JST 3144	Dead Sea Scrolls

#### Literature

JST 3100	The Hebrew Creative Mind
JST 3751	Literature of the Holocaust

#### Culture

JST 3450	Modern Jewish Experience
JST 3820	Modern Hebrew Culture
JST 3810	The Jewish National Movement

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: Jamie Schwartz, 407-823-4798

Language disorders are the most prevalent communication disorder. Typically children, adolescents and adults with language disorders are served via a team approach that includes speech-language pathologists, psychologists, neurologists, pediatricians, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

Certificates will be awarded only at the time of degree completion.

### Credit Hour Requirements 13 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.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 10 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) internship or independent study credit may be used toward the certificate.

## MARKETING: Certificates

**College of Business Administration**

**Department of Marketing, BA2 307S**

\*Restricted to Marketing majors 9 hrs  
 Certificates will be awarded only at the time of degree completion.

**Certificate in Selling and Sales Management**

MAR 3403 Sales Force Management  
 \*\*MAR 4941 (internship in sales-related position)  
 One additional Marketing elective

**Certificate in Retailing Management**

MAR 4231 Retailing Management  
 \*\*MAR 4941 (internship in retail-related position)  
 One additional Marketing elective

**Certificate in e-Marketing**

MAR 3880 e-Marketing  
 \*\*MAR 4941 (internship in "e"-related position)  
 One additional Marketing elective

**Certificate in Sport Marketing Management**

MAR 4711 Sport Marketing  
 \*\*MAR 4941 (internship in sport-related position)  
 One additional Marketing elective

**Certificate in Healthcare Marketing**

MAR 4712 Healthcare Marketing  
 \*\*MAR 4941 (internship in healthcare-related position)  
 One additional Marketing elective

**Certificate in Services Marketing**

MAR 4841 Services Marketing  
 \*\*MAR 4941 (internship in services-related position)  
 One additional Marketing elective

**Certificate in Entertainment Marketing**

MAR 4715 Entertainment Marketing  
 \*\*MAR 4941 (internship in entertainment-related position)  
 One additional Marketing elective  
 \* These nine hours count as the nine elective marketing hours required in the major.  
 \*\* Certificate attainment is subject to the availability of internship opportunities in the area of interest.

**NONPROFIT MANAGEMENT: Certificate**

**College of Health & Public Affairs**

**Department of Public Administration, HPA2 238**

<http://www.cohpa.ucf.edu/pubadm/>

Dr. Mary Ann Feldheim, 407-823-2604

The Certificate program will provide basic knowledge in nonprofit management, resource development, volunteer management, strategic planning, and program evaluation for those students interested in nonprofit sector management as a career.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements 18 hrs**

Required Courses (15 hrs)		
PAD 4144	Nonprofit Organizations	3 hrs
PAD 4148	Volunteer Management	3 hrs
PAD 4147	Resource Dev. in the Nonprofit Sector	3 hrs
PAD 4325	Program Eval. Public & Nonprofit Org	3 hrs
PAD 4153	Strategic Planning & Implementation	3 hrs

**Restrictive Elective Course (3 hrs)**

See advisor for approved courses.

**Other Requirements**

- A minimum grade of "C" (2.0) is required in each course.
- Students must earn a 2.0 ("C") for credit to be accepted.
- At least 12 hours used in the program must be earned at UCF within the Department of Public Administration.

**REAL ESTATE: Certificates**

**College of Business Administration**

**Department of Finance, BA 409**

<http://www.bus.ucf.edu/finance>

**Credit Hour Requirements 15 hrs**

Certificates will be awarded only at the time of degree completion.

**Certificate in Real Estate Brokerage**

(Completion of this certificate qualifies a student to sit for the Florida real estate

sales license)		
REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4303	Real Estate Investing Analysis	3 hrs
MAR 3391	Professional Selling	3 hrs
**FIN 4941	Internship (real estate brokerage)	3 hrs

**Certificate in Real Estate Appraisal**

(Completion of this certificate qualifies a student to sit for the Florida real estate appraiser's license.)

REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4103	Real Estate Appraisal and Evaluation	3 hrs
MAR 3391	Professional Selling	3 hrs
**FIN 4941	Internship (real estate appraisal)	3 hrs

**Certificate in Mortgage Brokerage**

(Completion of this certificate qualifies a student to sit for the Florida mortgage broker's license)

REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4204	Residential Real Estate Finance	3 hrs
MAR 3391	Professional Selling	3 hrs
**FIN 4941	Internship (mortgage brokerage)	3 hrs

\*Restricted to real estate majors. These certificates do not require additional hours beyond the BA and BSBA real estate major programs. They are intended to allow students to develop specializations in specific areas of interest and to prepare for licensing exams.

\*\* Internships must be paid internships in the area of specialization, and should be completed in the senior year after completing at least 6 hours of real estate courses. Internship packets are available in the department of Finance (BA 409). Certificate attainment is subject to the availability of internship opportunities in the area of interest. A student must have earned an overall GPA of at least 2.75 to qualify for an internship.

**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](mailto:jrandall@mail.ucf.edu)

The security industry is rapidly growing in the State of Florida and in the nation. This area is in need of qualified, innovative managers and leaders to meet the demands of the twenty-first century. A student in this certificate program will gain experience in risk assessment, legal issues, and contemporary approaches to security management.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements 15 hrs**

Required Courses (12 hrs)		
CJT 3804	Security Administration	3 hrs
CJT 3803	Security Management	3 hrs
CJT 4843	Risk Management	3 hrs
CCJ 4644	White Collar Crime	3 hrs

**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
PLA5937	Seminar in Contemporary Legal Problems	3 hrs
PLA3273	Law of Torts	3 hrs

**Other Requirements**

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

**SERVICE-LEARNING: Certificate**

**Office of Undergraduate Studies**

**Experiential Learning, PH 208**

<http://www.service.learning.ucf.edu>

S. Dressler, 407-823-5000

email: [EL@mail.ucf.edu](mailto:EL@mail.ucf.edu)

The certificate program in Service-Learning is designed for students in any discipline who seek to engage in a reflective analysis of com-

## Certificates

munity service as it relates to academic course work. Service-Learning furthers the learning objectives of the academic course, addresses community needs, and requires students to reflect on their activity in order to gain an appreciation for the relationship between civics and academics. Through Service-Learning (SL) courses, students develop academic skills, civic responsibility, and career opportunities. This certificate is open to all undergraduate and graduate students in any major.

### Credit Hour Requirements 12 hrs

Students may choose any of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an "SL" and can be accessed under "special groups" in the class schedule.

**Course Requirements:** 4 UCF-approved SL courses  
Students may choose any four (4) of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an "SL" and can be accessed under "special groups" in the class schedule.

### Other Requirements

- Minimum GPA of 2.5 in UCF-approved SL classes.
- Minimum of 60 community service hours in four (4) UCF-approved SL classes.

## TRANSLATION AND INTERPRETATION: Certificate

**College of Arts and Humanities  
Modern Languages and Literatures, CNH 505**

<http://www.cas.ucf.edu/forlang>

[foreignlanguage@ucf.edu](mailto:foreignlanguage@ucf.edu)

Maria Redmon, CNH 512, 407-823-5738

Email: [mredmon@mail.ucf.edu](mailto:mredmon@mail.ucf.edu)

### Credit Hour Requirements 18 hrs

#### Required Skills

Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

#### Required Courses (12 hrs)

SPT 3800	Span Translation and Interpretation	3 hrs
SPT 3805	Span Trans & Interp for Mass Com	3 hrs
SPT 3809	Medical Span Trans/Interp	3 hrs
SPT 3831	Spanish Legal Trans/Interp	3 hrs

#### Restricted Upper Division Electives (6 hrs)

SPN 3933	Spanish Across the Curriculum	3 hrs
SPN 4941	Internship	3 hrs

Any upper division SPN or SPT course with advisor's approval

### Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate.
- Satisfactory completion of translation and interpretation exit exam.

## WOMEN'S STUDIES: Certificate

**College of Arts and Humanities  
Women's Studies Program, CNH 201H**

<http://www.cas.ucf.edu/womensstudies>

L. M. Logan, 407-823-6502,

email: [womenst@ucf.edu](mailto:womenst@ucf.edu)

The certificate program in Women's Studies is designed to provide students with a basic, working knowledge of gender roles and women's issues. The certificate program is open to both degree-seeking and non degree-seeking students, but should be particularly beneficial to students in professional degree programs who will serve women and/or girls as a client population, but whose elective hours are restricted.

### Credit Hour Requirements

**Required Course:** 12 hrs

WST 3015 Introduction to Women's Studies (3 hrs)

3 hrs

**Restricted Electives** (6-9 hrs)

See listing for minor. Certificate students are exempt from the distribution requirements and should select foundations courses that best complement their major area of study.

**Internship Option:** (0-3 hrs)

Internships required by a student's major degree program may count for credit toward the certificate, if placement is substantively related to women and/or women's issues.

### Other Requirements

- A GPA of 2.0 or better is required in all courses used to satisfy the certificate.
- Grades of "D+ or below will not be counted toward the Women's Studies Minor.
- At least 9 hours used in the certificate must be earned at UCF.



# STUDY ABROAD PROGRAMS

---

## International Studies and Programs

*Interim Assistant Vice President of International and Interdisciplinary Studies:* Dr. Diane Z. Chase  
*Associate Director:* Angel Cardec  
Research Pavilion, Suite 395, 407-882-2300; Fax: 407-275-4386;  
P.O. Box 163105, Orlando, FL 32816-3105; <http://www.international.ucf.edu>.

The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university's broader strategic plan for internationalization.

The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

Central to the global mission at UCF is an ongoing program of international grants and development projects. The OIS secures, through external funding agencies, the resources necessary for faculty and curriculum development, joint research projects, and partnership programs. Recent grants include U.S. Department of Education Fulbright-Hays Group Projects Abroad grants to Mexico, the Caribbean, Peru, India, and Bolivia.

Several enrichment opportunities for faculty have OIS involvement, including the International Track of the UCF Faculty Development Summer Conference, other faculty workshops, and research opportunities.

The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocolary statements of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Through the OIS, UCF develops, promotes and supports programs of study throughout Africa, Asia, Europe, Latin America and the Caribbean (see below).

## Study Abroad Programs

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self confidence, and awareness of other cultures are only some of the benefits of study abroad. Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages' intensive programs in France, Japan, Germany, Spain and Italy; Social Work Department programs in South Africa and Russia; Criminal Justice in Barbados and Russia, Nursing in Sweden, Education in the Netherlands, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Qingdao University in China; Universite de Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jonkoping, Mallardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom.

UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system. UCF students apply to these programs directly and must become transient students at the host institution.

There are many additional study abroad options available to UCF students. It is important that students investigate their choices, the requirements and the implications that each choice has in terms of cost, credit transferability and progress toward graduation. OIS staff members can provide program advice and general information about options. For up-to-date information, please visit [www.international.ucf.edu](http://www.international.ucf.edu), or contact the office at 407-882-2300.

# ACCELERATED UNDERGRADUATE-GRADUATE PROGRAMS

## ECONOMICS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./M.S.)

College of Business Administration  
Department of Economics

BA305, 407-823-3266, <http://www.bus.ucf.edu>

Email: [robertp@mail.ucf.edu](mailto:robertp@mail.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 criterion, they must submit a GRE or GMAT score
- Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.

### Degree Requirements

#### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations (9 hrs)  
Required: SPC 1600
- B. Cultural and Historical Foundations (9 hrs)
- C. Mathematical Foundations (3 hrs)  
Select MAC 1105 College Algebra  
Select CGS 2100CC Computer Fundamentals for Business
- D. Social Foundations (3 hrs)  
Select ECO 2013 Principles of Macroeconomics *or*  
ECO 2023 Principles of Microeconomics  
Select one: PSY 2012, SYG 2000, ANT 2000
- E. Science Foundation (6 hrs)

#### 2. Common Program Prerequisites (3 hrs)

- ECO 2013\* Principles of Macroeconomics  
ECO 2023\* Principles of Microeconomics  
\* See transfer notes for possible substitutions

#### 3. Required Undergraduate Major Courses (15 hrs)

- ECO 3101 Intermediate Microeconomics (3 hrs)  
ECO 3203 Intermediate Macroeconomics (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/MS (15 hrs)

- ECO 6403 Mathematical Economics (3 hrs)  
ECO 6118 Microeconomic Theory I (3 hrs)  
ECO 6206 Macroeconomics Theory I (3 hrs)  
ECO 6424 Econometrics I (3 hrs)  
ECO 6XXX Economics Elective (3 hrs)

\* 15 hours can count towards both BA and MS

#### 6. Required Minor (18 hrs)

Completion of a minor in one of the following:

Computer Science, History, Mathematics, Statistics, Political Science, Psychology, or Sociology.

#### 7. Program Exit Requirements

- A minimum grade of 3.0 is required for all graduate courses.
- A minimum GPA of 2.5 is required for all courses taken in the major and minor.
- Computer Competence is met by Research Methods course.

#### 8. Foreign Language (0-8 hrs)

Admission: Met by graduate requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

#### 9. Electives (variable)

#### 10. University Minimum Exit Requirements - B.A.

- 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credit permitted.
- 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 hrs

#### 11. Courses taken toward MS (9 hrs)

Six to nine additional hours of 6000 level economics electives.

A maximum of three hours of an approved non-economic elective may substitute for an economics elective. Select from disciplines such as 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.S. in Economics degree must complete an end-of-program option. This requirement can be met by any of the following two options: 1) Thesis option or 2) Course work option. (see the graduate catalog for a detailed description of the options).

Total Semester hours (BA/MS) 135 hrs

The baccalaureate degree will be awarded when program requirements for the BA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MS will be awarded on completion of the total program of study.

The following will be waived for this joint degree program:

- The limit of nine hours to be shared between undergraduate and graduate programs
- Undergraduate students taking 6000 level courses must be within nine hours of graduation
- Undergraduate students taking 6000 level courses must not register for more than a total of twelve hours in that semester

#### Transfer Notes:

- Grades below "C" (2.0) are not accepted.
- Courses taken at community college do not substitute for Upper Division courses.
- Courses transferred 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 economics courses and will need to be taken.

## ECONOMICS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.B.A./M.S.)

College of Business Administration  
BA2 101, 407-823-2184

<http://www.bus.ucf.edu/economics>

Email: [robertp@mail.ucf.edu](mailto:robertp@mail.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 criterion, they must submit a GRE or GMAT score

## Accelerated Undergraduate-Graduate Programs

- Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.

### Degree Requirements

#### 1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
Required: SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100CC Computer Fundamentals for Business	3 hrs
D. Social Foundations*	
Select ECO 2013 Principles of Macroeconomics <i>or</i>	3 hrs
ECO 2023 Principles of Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

#### 2. Common Program Prerequisites

Must be completed with a "C" (2.0) or better.

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics
*ECO 3401	Quantitative Business Tools I
CGS 2100CC	Computer Fundamentals for Business

\* At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

#### 3. Common Body of Knowledge (30 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	6 hrs
GEB 3356	Introduction to International Business	3 hrs
BUL 3130	Legal & Ethical Environ. of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs

Last Semester:

MAN 4720	Strategic Management	3 hrs
----------	----------------------	-------

#### 4. Required Undergraduate Major Courses (9 hrs)

ECO 3101	Intermediate Microeconomics	3 hrs
ECO 3203	Intermediate Macroeconomics	3 hrs
ECO 4451	Research Methods in Economics	3 hrs

#### 5. Restricted Electives (3 hrs)

Select one 3000 - 4000 level elective 3 hrs

#### 6. Courses Shared BSBA/MS (15 hrs)

ECO 6403	Mathematical Economics	3 hrs
ECO 6118	Microeconomic Theory I	3 hrs
ECO 6206	Macroeconomic Theory I	3 hrs
ECO 6424	Econometrics I	3 hrs
ECO 6XXX	Economics Elective	3 hrs

#### 7. Electives (variable)

**Total Semester Hours Required 120 hrs**

#### 8. Courses taken toward MS (9 hrs)

Six to nine additional hours of 6000 level economics electives. A maximum of three hours of an approved non-economics elective may be completed from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering

#### 9. End of Program Option 6 hrs

(1) Thesis option or (2) Course Work option (see the graduate catalog for a detailed description of the options). The baccalaureate degree will be awarded when program requirements for the BSBA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MS will be awarded on completion of the total program of study.

## HISTORY ACCELERATED

## UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)

College of Arts and Humanities

CNH 551, 407-823-2224

<http://pegasus.cc.ucf.edu/~history>

Graduate program E-mail: [hisgrad@ucf.edu](mailto:hisgrad@ucf.edu)

Undergraduate program E-mail: [history@ucf.edu](mailto:history@ucf.edu)

Chair: Edmund F. Kallina

Graduate Program Coordinator: Hong Zhang

**Purpose of this degree** - This program allows highly qualified undergraduate majors in history to begin taking graduate-level courses which will count towards their master's degree while completing their baccalaureate degree program. Participation will enable completion of a B.A. and M.A. in five instead of six years for students enrolled in full-time course work.

### Admission Requirements

- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history course work
- A 3.5 GPA or better in history courses and a 3.25 overall GPA or better
- Graduate Record Exam (GRE) combined score of 1050 on both the verbal and quantitative sections of the exam and a score of at least 550 on the verbal section
- Completion of a graduate application, including an essay indicating reasons for desiring to complete the accelerated program, and three letters of recommendation from History Department faculty to be submitted to the History department
- Students will be formally admitted to the master's program following receipt of the BA degree

### Undergraduate Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a  $\bar{O}B\bar{O}$  (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

# Accelerated Undergraduate-Graduate Programs

- 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  
Students may substitute nine hours of 5000- or 6000-level course work for 3000- or 4000-level courses

**5. Departmental Exit Requirements**

- Maintain a minimum GPA of 3.5 in upper division required courses attempted
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student's written work including, but not limited to, book critiques, in-class essay exams, and term papers
- Students must complete at least 18 of the required 36 history hours at UCF
- Computer competency met by completion of the major

**6. Foreign Language Requirements 0-8 hrs**  
**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign language may be used to meet the requirement. Majors who are participating in the accelerated program should complete two years of a foreign language, preferably one functional in their area of historical interest. Students may take the department's M.A. foreign language proficiency exam immediately following the completion of their foreign language course work.

**7. Electives (variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

## 8. University Minimum Exit Requirements - BA

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

**Total Semester Hours Required 120 hours**

## Overall History MA Requirements (36 hrs)\*

\* Nine hours of graduate work are earned in the senior year, in consultation with the history graduate coordinator.

### 1. Required Graduate Courses (12 hrs)

HIS 6159 Historiography 3 hrs  
HIS 6905 Capstone Course 3 hrs  
HIS 6971 Thesis 6 hrs

### 2. Courses in Area of Concentration (18 hrs)

Assumes that nine additional hours of graduate courses were taken during the senior year.

(Eastern Hemisphere: African, Asian, European, or Middle Eastern; or Western Hemisphere: Caribbean, North American, or South American)

### 3. Outside Area of Concentration in History (6 hrs)

### 4. Foreign Language Requirement

Students will also be expected to demonstrate reading competency in one foreign language. The foreign language competence must be completed one semester prior to the thesis defense.

### 5. Examination Requirements

Each candidate for the M.A. in History must pass written examinations in two fields upon conclusion of regular course work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the Capstone course. Each student will also submit a thesis prospectus and preliminary bibliography, which the three members of the student's thesis committee judge acceptable as the preliminary step to beginning the thesis.

## Minimum Hours Required for M.A. - 36 Semester Hours (nine hours of which also count toward the B.A. degree)

**Related Programs:** Humanities

**Related Minors:** African-American Studies, American Studies, Asian Studies, History, Humanities, Judaic Studies, Latin American Area Studies, Middle Eastern Studies, Women's Studies

### Transfer Notes:

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- AMH 2010\* & 2020\*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

# Accelerated Undergraduate-Graduate Programs

## LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. AND M.A./M.S.)

Office of Undergraduate Studies  
Office of Liberal & Interdisciplinary Studies

<http://liberalstudies.info>

Liberal Studies Advising Team, 407-823-0144  
E-mail: [ls@mail.ucf.edu](mailto: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 pro-

grams must be fulfilled.

- Students should consult with the Liberal Studies advisor before applying for the program.
- Approval for course substitutions and for graduate courses must be given by the Liberal Studies advisors.
- The B.A./B.S. will be awarded after completing all the requirements for that degree in the undergraduate program.

**1. UCF General Education Program (36 hrs)**  
(See Liberal Studies sections of the catalog for track-specific GEP requirements)

**2. Common Program Prerequisites: none**

### 3. Track Requirements

Students complete the requirements of the program based on the track option in Liberal Arts, Liberal Studies, Computer Information Technology, Environmental Studies, or Women's Studies. See the description in the Liberal Studies sections for full information about each track.

Liberal Studies track	(61 hrs)
Minor	18 hrs
Two liberal studies areas which include at least 18 upper division hours	
Area 1	18 hrs
Area 2	18 hrs

Computer Information Technology (CIT) track	(54 hrs)
Students must complete the Computer Science minor and the Information Technology minor (Option 3)	
36 hrs	
One liberal studies area	18 hrs

Liberal Arts track	(42 hrs)
An approved course in critical thinking, ethics or methodologies	3 hrs
Minor, or individualized minor	18 hrs
2nd minor from College of Arts & Humanities or College of Science or	
Nine hours in each of two concentrations	
One of the following	(3 hrs)
IDS 4912 Directed Independent Research	3 hrs
or	
IDS 4955 Study Abroad	3 hrs
or	
IDS 4970H Thesis	3 hrs

Environmental Studies Track	(48 hrs)
Core for Environmental Studies	11 hrs
Subject area: Environmental Studies Fundamentals	19 hrs
Specialized Subject area	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

**5. Foreign Language Requirements (0-8 hrs)**

**Admission-BA:** Met by graduation requirement.

**Admission-BS:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

**Graduation-BA:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**Graduation-BS:** Proficiency equivalent to one semester of college

## Accelerated Undergraduate-Graduate Programs

instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

**Note:** Students entering without having met the admission requirement must do so in order to graduate

### 6. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval.

### 7. University Minimum Exit Requirements - B.A./B.S.

- 2.0 UCF GPA.
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**Total Semester Hours Required - B.A./B.S. 120 hours**  
(including nine graduate credits when completing the 3+2 program).

### Overall Liberal Studies M.A./M.S. Requirements (33 hrs)\*

\* Nine hours of graduate work are earned in the senior year, in consultation with the M.A./M.S. in Liberal Studies program director.  
(Please see the Graduate Catalog for specific requirements)

### Core courses (9 hrs)

IDS 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.

## MOLECULAR BIOLOGY AND MICROBIOLOGY- UCF/USF Accelerated Medical School Program (B.S.)

**Burnett College of Biomedical Sciences**

**HPA2 335, 407-823-5932**

<http://www.biomed.ucf.edu>

**Dean: P.E. Kolattukudy**

Students desiring admission to USF College of Medicine [USFCOM] through the accelerated program will meet all USFCOM admission requirements and obtain a B.S. in Molecular Biology and Microbiology after completion of the first year of the medical school curriculum.

### Admission Requirements

Students must apply for this program through the Burnett Honors

College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT of 29. More information about the admission process can be found at <http://www.honors.ucf.edu> and in catalog; Burnett Honors College: UCF/USF Accelerated Medical School Program.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a departmental advisor and the Burnett Honors College advisor
- Students who decelerate will not have grades below C<sup>-</sup> (1.75) in life science courses accepted

### 1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing total GEP hours to more than 36.)

A. Communication Foundations	9 hrs
Select ENC 1101H Honors Fr Composition I	
Select ENC 1102H Honors Fr Composition II	
Prefer SPC1016 H Honors Fund. Tech Presentations	
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	4 hrs
Select MAC 231	3 hrs
Select STA 2023	6 hrs
D. Social Foundations	6 hrs
E. Science Foundations	4 hrs
Select BSC 2010C Biology I	4 hrs
Select CHM 2045C Chemistry Fundamentals I	

### 2. Common Program Prerequisites (16 hrs)

BSC 2010C	Biology I	GEP
BSC 2011C	Biology II	4 hrs
CHM 2045C, 2046,	Chemistry Fundamentals I, II, + Lab 2046L	GEP, 4 hrs
CHM 2210, 2211,	Organic Chemistry I, II, + Lab 2211L	8 hrs
MAC 2311	Calculus with Analytical Geometry I	GEP

### 3. Core Requirements\* (36 hrs)

<b>Life Sciences</b>		
MCB 3020C	General Microbiology	5 hrs
MCB 4912	Undergraduate Research	3 hrs
MCB 4941	Internship Clinical Experience	1 hr
PCB 4239	Molecular Immunology	3 hrs
PCB 3233L	Immunology Lab	1 hr
PCB 3522, 4524	Molecular Biology I, II	6 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
SLS 2311C	Selected Medical Careers	2 hrs

#### Chemistry

BCH 4053	Biochemistry I	3 hrs
----------	----------------	-------

#### Math\*\* Calculus and Statistics

MAC 2311	Calculus with Analytical Geometry I	GEP
STA 2023	Statistical Methods I	GEP

#### Physics\*\*

PHY 2053C, 2054C	College Physics I, II	8 hrs
or PHY 2048, PHY 2049C		

### 4. Upper Division Restricted Electives (8 hrs)\*\*

Five restricted electives satisfied by first year medical school courses.

PCB 3703C	Human Physiology	4 hrs
ZOO 3733C	Human Anatomy	4 hrs

### 5. Additional USF/UCF Requirements (7 hrs)

IDH 1921H	Honors Symposium	1 hr
ENC3241/ENC3241H	Writing for the Tech Professional	3 hrs
PHI 4633H or	Honors Ethics and Biological Science	3 hrs
PAF 3753H	Honors Ethical Issues in Health & Public Affairs	

106 total hrs

\*Students must select at least two honors sections of upper division core requirements or restricted electives, and a total of four lower division courses in honors.

\*\*Students decelerating to the 4 year B.S. program must take the following additional courses:

MCB 4414	Microbial Metabolism	3 hrs
4 additional Upper Division Restricted Electives listed		11 hrs
under Molecular Biology and P20Microbiology B.S.(minimum)		120 total hrs

### 5. Departmental Exit Requirements

To be eligible for a major in Molecular Biology and Microbiology:

- For decelerated program, the student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of

## Accelerated Undergraduate-Graduate Programs

at least 2.0 for all coursework in the Core and Restricted Electives  
 ■ For accelerated program the degree is awarded after successful completion of first year USF Medical School program.

**6. Electives:** **None**

**7. Foreign Language Requirements** **(0-8 hrs)**  
**Admissions:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.  
**Graduation:** none

**8. University Minimum Exit Requirements**  
 ■ A 2.0 UCF GPA  
 ■ 48 semester hours of upper division credit completed at UCF and/or USF

**Total Semester Hours Required** **120 hrs**  
 For accelerated program, 14 credit hours will be from completion of USF College of Medicine first year courses.

**Related Programs:** Biology, Liberal Studies

**Related Minors:** Biology, Chemistry

### Tentative Course Schedule for Entering Freshmen

Freshman Year		15 hrs	Spring	16 hrs
Fall				
ENC 1101H		3	ENC 1102H	3
PSY 2012H or SYG 2000 or ANT 2000H		3	STA 2023	3
CHM 2045C		4	CHM 2046	3
BSC 2010C		4	CHM 2046L	1
IDH 1921		1	MAC 2311	4
			SLS 2311C	2
Summer		8 hrs		
PCB 3703C		4		
ZOO 3733C		4		

Sophomore Year		16 hrs	Spring	16 hrs
Fall				
CHM 2210		3	CHM 2211	3
MCB3020C		5	CHM 2211L	2
PHI 4633H or PAF 3753H		3	PHY 2054C or PHY 2049,2049L	4
PHY 2053C or PHY 2048,248L		4	BSC 3403C	4
MCB 4941		1	SPC 1016H	3
Summer		0 hrs		
MCAT				
Prep Exam				

Junior Year		16 hrs	Spring	16 hrs
Fall				
PCB 3522		3	PCB 4524	3
BCH 4053		3	PCB 4239, 3233L	4
ENC 3241/ENC 3241H		3	Cultural/Historical	3
BSC 2011C		4	ECO 2013 or POS 2041	3
Cultural/Historical		3	Cultural/Historical	3
Summer		3 hrs		
MCB 4912		3		

## NURSING ACCELERATED SECOND DEGREE C. BACHELOR OF SCIENCE IN NURSING (BSN) OPTION

(For individuals who are not Registered Nurses but who hold a baccalaureate or higher degree from a regionally accredited college or university)

**College of Health and Public Affairs**  
**HPA 220, 407-823-2744**

**E-mail: [ucfnurse@mail.ucf.edu](mailto:ucfnurse@mail.ucf.edu)**

*Undergraduate Coordinator: Patricia Leli*

**Admission Requirements** **Limited Access**

Acceptance to the university does not constitute admission to the upper division nursing program.

■ **Separate application** to the limited access accelerated second

degree bachelor of science in nursing (BSN) option must be made directly to the School of Nursing prior to January 15 of the year admission is sought

- Application to the University must also be submitted by the program deadline
- Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.
- Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the Registrar's Office. These students complete the "Readmission Application" form
- Students must receive a baccalaureate or higher degree from a regionally accredited college or university prior to the start of the program
- Three science prerequisite courses must be completed prior to application to the program.
- All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of "C" (2.0) or better
- All applicants must complete an accelerated second degree program interview in association with a mandatory information session.
- Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing and the Commission of Collegiate Nursing Education and approved by the Florida State Board of Nursing
- **Nursing Accelerated Second Degree Program begins in Summer Semester.**

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements that cannot be answered by college advisors
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program
- UCF Residency requirement: 30 hours (if applicable)
- Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office

<b>1. UCF General Education Program</b>	<b>NA</b>
<b>2. Common Program Prerequisites</b>	<b>(31 hrs)</b>
PSY 2012 General Psychology	3 hrs
SYG 2000 Sociology	3 hrs
MCB 2004C Health Microbiology	4 hrs
CHM 1032/L General Chemistry and lab*	4 hrs
ZOO 3733C Human Anatomy**	4 hrs
PCB 3703C Human Physiology**	4 hrs
STA 2014C or 2023 Principles of Statistics	3 hrs
SOW 3104 Assessing Human Development or	
DEP 2004 Developmental Psychology	3 hrs
HUN 3011 Human Nutrition	3 hrs

\* The first semester of a two semester general chemistry course does not meet requirement.

\*\* May take Anatomy and Physiology sequence of six-eight total credits.

**3. Core Requirements** **(53 hrs)**

NUR 3026L Thera Interv. For Health Prof.	1 hr
NUR 3065 Health Assessment	2 hrs
NUR 3065L Health Assessment Lab	1 hr
NUR 3167 Accel Nursing Research Sem	1 hr*
NUR 3235 Promoting Physical & Mental Health	5 hrs
NUR 3235L Clin Pract in Prom Phys/Mental Health	4 hrs
NUR 3637 Accel Hlth Fam and Comm	5 hrs
NUR 3637L Accelerated Clin Hlth Fam and Comm	2 hrs
NUR 3825 Role of the Professional Nurse	2 hrs
NUR 3128 Pathophysiology & Pharmacology	5 hrs

## Accelerated Undergraduate-Graduate Programs

NUR 4525	Nursing Intervention in Mental Illness	2 hrs	NUR 3065	2	NUR 3235	5
NUR 4525L	Clinical Practice w/ Mentally Ill Client	1 hr	NUR 3026L	1	NUR 3235L	4
NUR 4639	Accel Comm Continuum	2 hrs	NUR 3637	5		
NUR 4636L	Clinical Pract in Comm.-Orient Nrsng	2 hrs	NUR 3637L	2		
NUR 4745	Nursing Care of Clients w/ Acute Ill	4 hrs				
NUR 4745L	Clinical Practice in Acute Illness	4 hrs	<b>Spring 15 hrs</b>		<b>Summer 11 hrs</b>	
NUR 4829	Accel Trans Leader	3 hrs	NUR 4745	4	NUR 4829	3
NUR 4945L	Directed Nursing Practice	4 hrs	NUR 4745L	4	NUR 4639	2
NUR 4XXX	Nursing Elective	3 hrs **	NUR 4525	2	NUR 4636L	2
			NUR 4525L	1	NUR 4945L	4
			NUR 3167 <i>or</i>	1	NUR 3XXX Elective**	3
			*NUR 3165	3		

\* Students without a research course on transcript must take NUR 3165

\*\* Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course. Any variation from the above must be approved by the School of Nursing.

### 4. Upper Division Restricted Electives (3 hrs)

Nursing Elective:

May not be required. However, some NUR 4945L placements do require an elective be taken concurrently.

### 5. Department Continuation and Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

### 6. Electives None

### 7. Foreign Language requirements

Admission: none  
Graduation: none

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF

**Total Semester Hours Required for 2nd Degree BSN 53 hrs**

### Related Programs

Health Services Administration, Social Work, all health programs

### Related Minors

Aging Studies, Psychology, Health Sciences, Health Services Administration

### Transfer Notes:

Examples of Community College Equivalent Courses for

### Prerequisites

General Psychology (PSY X012) or any General Psychology course	3
General Sociology (SYG 2000) or any Intro to Sociology course	3
Statistics (STA 2014C or 2023) or any Statistics course	3
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*	4
Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086)	6-8
General Microbiology (MCB 3020C) (MCB X010C) w/lab or any Microbiology course w/lab	4
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course	3
Human Nutrition with Therapeutic Nutrition course	3

\* The first semester of a two semester general chemistry course does not meet requirement.

**Note:** A grade of "C" (2.0) or better is required in all prerequisite courses.

### Honors

University Honors and Honors in the Major Available

### Tentative Course Schedule

First Semester

Summer 13 hrs		Fall 14 hrs	
NUR 3825	2	NUR 3128	5

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.

## NURSING (B.S.N.)

### D. RN TO MSN OPTION

College of Health and Public Affairs

HPA 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

Program Coordinator: Linda Hennig

Accelerated program for students who are licensed as an RN and meet general education requirements, prerequisites, and required GPA.

Available for all tracks in the graduate program. Nursing Leadership and Management, Family Nurse Practitioner, Adult Nurse Practitioner, Pediatric Nurse Practitioner, Clinical Nurse Leader, Nurse Educator, and Clinical Nurse Specialist. (See UCF *Graduate Catalog* for current offerings.) Up to 15 credit hours may be applied toward meeting requirements of both BSN and MSN programs.

### Admission Requirements - Limited Access

Acceptance to the university does not constitute admission to the RN-MSN program. **Separate application** to this *limited access program* must be made. Contact the School of Nursing or visit our website for application materials. All applicants must meet the following criteria:

- Graduate of a state-approved or accredited associate degree or diploma nursing program
- Licensure as an RN
- Completion of UCF general education requirements or an AA degree from a Florida community college, including CLAST (or exempt)
- Completion of prerequisites for the RN-BSN nursing program
- Minimum cumulative GPA of 3.0.  
A minimum combined GRE score of 900 on the verbal/quantitative exams.
- Admitted to UCF undergraduate program
- Three professional references
- Resume
- Letter of Intent

### Interim Requirements:

Maintain a Nursing GPA of 3.0

**Admission Requirements for Graduate Nursing Phase:** (To be met during the semester the BSN is awarded)

- Application to Graduate Studies
- Completion of all UCF School of Nursing coursework to date with a minimum GPA of 3.0
- An updated resume

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities



## Accelerated Undergraduate-Graduate Programs

- UCF Residency Requirement: 30 hours
- The BSN is awarded after completion of 60 hours including specified program requirements
- The MSN is awarded after program completion
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

### 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 and NUR 3165, Critical Inquiry.
- Students take NGR 5800, Nursing Theory
- Students pursuing the MSN in the Nursing Leadership and Management Track may take the following courses:
  - NUR 4838L, Directed Practice in Nursing Administration for NUR 4812, Directed Nursing Practice
  - NGR 5720, Organizational Dynamics for NUR 4827, Leadership and Management Principles
  - NGR 5871, Health Care Informatics
  - NGR/HSA XXXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective)
- Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks may take the following courses:
  - NGR 5003 and NGR 5004L, Advanced Health Assessment, Health Promotion and Diagnostic Reasoning (for NUR 4812C)
  - NGR 5141, Pathophysiology
  - NGR XXXX, Graduate elective in area of concentration

### 1. UCF General Education Program (36 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations                                     |       |
| 1. ENC 1101 & ENC 1102   | 9 hrs |
| 2. Select SPC 1600C  | 9 hrs |
| B. Cultural Historical Foundations                               |       |
| C. Mathematical Foundations                                      |       |
| 1. Select MAC 1105   | 6 hrs |
| 2. Select STA 2014C  |       |
| D. Social Foundations  |       |
| 1. Select SYG 2000 <i>or</i> PSY 2012                            | 6 hrs |
| 2. Select one: ECO 2013 , <i>or</i> ECO 2023, <i>or</i> POS 2041 |       |
| E. Science Foundations:  |       |
| Select BSC 2010C   | 6 hrs |
| Select CHM 1032  |       |

### 2. Common Program Prerequisites 21 hrs

- |                          |                                       |       |
|--------------------------|---------------------------------------|-------|
| PSY 2012                 | General Psychology**                  | GEP   |
| SYG 2000                 | Sociology**                           | 3 hrs |
| MCB 2004C                | Health Microbiology                   | 4 hrs |
| CHM 1032/L               | General Chemistry and lab**           | GEP   |
| ZOO 3733C                | Human Anatomy*                        | 4 hrs |
| PCB 3703C                | Human Physiology                      | 4 hrs |
| STA 2014C <i>or</i> 2023 | Principles of Statistics**            | GEP   |
| SOW3104 <i>or</i>        | Assessing Human Development <i>or</i> | 3 hrs |
| DEP 2004                 | Developmental Psychology              |       |
| HUN 3011                 | Human Nutrition                       | 3 hrs |

\*May take Anatomy and Physiology sequence of six-eight total credits.

\*\*Also meets General Education Requirements;

Applicants should see a UCF Nursing Advisor for possible course substitutions.

### 3. Core Requirements

Courses vary by specific program tracks. Consult program advisor.

### 4. Upper Division Restricted Elective none

### 5. Departmental Exit Requirements

- Completion of all courses in major with a grade of "B" (3.0) or better
- 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).

**Graduation:**

none

### 8. University Minimum Exit Requirements

(For students exiting after earning BSN.)

- A 2.0 UCF GPA and 2.5 Nursing Major GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required BSN 120 hours

**Related Programs:** Health Services Administration, all health programs

**Related Minors:** Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology  
4945L) placements require an elective as a concurrent course.

# ARTICULATED A.S. TO B.S. PROGRAMS

The University offers nine specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following nine programs: Applied Science, Criminal Justice, Electrical Engineering Technology, Business Administration, Hospitality Management, Computer Engineering Technology - Network Specialization, Liberal Studies, Nursing, and Radiologic Technology. Students who wish to transfer to UCF under the provisions of the statewide articulated A.S. to B.S. programs must meet specific criteria:

1. Students must graduate with the specific program and new A.S. in Fall 2000 or later, (Fall 2003 or later for Criminal Justice or Computer Engineering Technology) from a Florida public community college.
2. Students who have graduated with an A.S. prior to Fall 2000 are not eligible to participate in these programs. The new community college A.S. programs have slightly different requirements. Students who do not have the new A.S. should complete their general education at the community college and then transfer into the appropriate non-A.S. to B.S. program at UCF.
3. Students may only transfer from the specific major to the specific major; e.g., Business Administration to General Business. One cannot, for example, transfer an A.S. in Business Administration to a B.S. in Accounting under this agreement.
4. Students should write on the front of their application for admission to UCF, "A.S. - B.A./B.S." designating their desire to participate in the articulation agreement.
5. UCF will allow students to complete the UCF required General Education courses at their community college while they are enrolled and working on their degree at UCF. However, students cannot be transient in their last 30 hours at UCF.
6. Students with Associate in Applied Science (AAS) degrees are not eligible for participation in these programs unless they also have the appropriate A.S. degree.

Applicants who qualify for this program are not guaranteed admission to the limited access programs in Nursing and Radiologic Sciences or programs that require specific grades in particular courses for admission.

Students should consult with their community college advisor when pursuing one of these programs to make sure they have met all of the appropriate requirements for the degree, including the necessary General Education courses and common program prerequisites. Students are still required to complete all of the components of the Gordon Rule and CLAST prior to graduation from UCF. Students may be required to complete all common program prerequisites for these majors prior to enrollment in upper division course work. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted into these programs must meet the requirements as stated in the programs listed below. Students who change majors out of these programs must adopt the requirements of the most current catalog for the selected major, including the required UCF General Education Program.

Questions concerning the requirements of these majors should be referred to the appropriate academic department or the Director of Transfer Services, (407) 823-2231.

## APPLIED SCIENCE (B.A.S.)

### A.S. to B.A.S.

(Completion Program for individuals who have a statewide articulated A.S. from a Florida public community college)

#### Office of Undergraduate Studies

#### Regional Campuses Administrative Offices

12201 Research Parkway, Suite 101

407-823-4547

<http://www.regionalcampuses.ucf.edu/>

Program Advisor: Judy Boyte; 407-317-7816

The Bachelor of Applied Science provides baccalaureate educational opportunities with a curriculum designed to develop competencies in organizational skills, management, and communication. The program is only available on UCF's Cocoa, Daytona Beach, MetroWest and Sanford/Lake Mary campuses. Emphasis will also be placed on the development of skills in critical thinking, problem solving, and ethical decision-making.

Students are allowed to take lower level, general education classes at the campus in Orlando if necessary. If students wish to take an upper division course at the Orlando campus they should see a Regional Campuses' academic advisor. This will be allowed only on a very limited basis and under highly extenuating circumstances. If you have any questions regarding this policy or procedure, please contact the Director of Regional Campuses Advising at 407-823-1509.

#### Admission Requirements

Completion of an A.S. degree from a Florida public community college which included at least 15 hours of transferable general education courses. Other applicants will be given individual review.

#### Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog

Students should maintain contact with an academic advisor

#### 1. UCF General Education Program (36 hrs)

Students will take General Education courses as needed to complete the university's 36 credit hour General Education requirement:

- |  |       |
|--|-------|
| A. Communication Foundations           | 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 Core (9 hrs)

- |          |  |       |
|----------|--|-------|
| BUL 3130 | Legal & Ethical Environment for Business | 3 hrs |
| MAN 3025 | Management of Organizations              | 3 hrs |
| ENC 3241 | Writing for the Technical Professional   |       |
|          | or                                       |       |
| ENC 3250 | Professional Writing                     | 3 hrs |

#### 4. Area of Concentration (Choose one)

##### A. Supervision and Administration Track: (18 hrs)

- |          |   |       |
|----------|---|-------|
| INP 3004 | Industrial/Organizational Psychology                            | 3 hrs |
| ISM 3011 | Management Information Systems                                  | 3 hrs |
| MAR 3023 | Marketing   | 3 hrs |
| GEB 3814 | Essentials of Human Resource Management for Non-business majors | 3 hrs |
| GEB 3815 | Employee Training for Non-business Majors                       | 3 hrs |
| ACG 3082 | Accounting for Non-business majors                              | 3 hrs |

##### B. Industrial Operations Track: (21 hrs)

- |          |   |       |
|----------|---|-------|
| ETI 3116 | Applied Quality Assurance               | 3 hrs |
| ETI 3671 | Technical Economics                     | 3 hrs |
| ETI 4186 | Applied Reliability                     | 3 hrs |
| ETI 4635 | Technical Administration                | 3 hrs |
| ETI 4640 | Operations Management for Technologists | 3 hrs |
| ETI 4448 | Applied Project Management              | 3 hrs |
| CET 3010 | Introduction to Information Technology  | 3 hrs |

**NOTE: At the time the catalog went to press, tracks in Legal Studies, Criminal Justice and Hospitality Management were under review. Consult the program office for additional details.**

#### 5. Modern Language Requirement (0-8 hrs)

##### Admission Requirements

Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation: None**

## University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

**Total Semester Hours Required** **120 hrs**

## Transfer Notes.

- UCF will allow students to complete required UCF General Education courses at the community college while they are enrolled and working on their degree at UCF; however, students cannot be transient in their last 30 hours at UCF.
- Courses taken at community colleges do not substitute for upper division courses.
- All students seeking a baccalaureate degree from a State of Florida Institution are required to satisfy the CLAST requirement. Transfer students with more than 60 semester hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first semester at UCF.
- Orientation and advising are two of the most valuable tools that a student can use when transferring to UCF. Students should take advantage of both

## CRIMINAL JUSTICE (B.S.)

### A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

### College of Health and Public Affairs

**HPA1 311 407-823-2603**

<http://www.cohpa.ucf.edu/crim.jus/>

*Undergraduate Program Coordinator:* Dr. Mary Ann Eastep

e-mail: [cjadvice@mail.ucf.edu](mailto:cjadvice@mail.ucf.edu)

## Admission Requirements

Completion of a Statewide Articulated A.S. in Criminal Justice from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses

## Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- The courses designated in section 1 below may be taken at a Florida Community College
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

### 1. UCF General Education Program (36 hrs)

Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:

- Communication Foundations
- Cultural Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundations

### 2. Common Program Prerequisites

Completed as part of the approved A.S. program

## 3. Core Requirements

**(18 hrs)**

- CCJ 3024 Criminal Justice System 3 hrs
- CCJ 3014 Crime in America 3 hrs
- CJL 3510 Prosecution and Adjudication 3 hrs
- CJC 3010 Corrections and Penology 3 hrs
- CJE 4014 Police and Society 3 hrs
- CCJ 4701 Research Methods in Criminal Justice 3 hrs

## 4. Upper Division Restricted Electives

**(30 hrs)**

- 27 additional semester hours of upper division CCJ course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
- 3 additional semester hours of supporting courses to be selected with and approved by the student's advisor. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology.

## 5. Upper Division Unrestricted Electives

**none**

## 6. Departmental Exit Requirements (130 hrs)

Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

## 7. Foreign Language Requirements

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:

**none**

## 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

## Total Semester Hours Required

**130 hours**

**Related Programs:** Legal Studies

**Related Minors:** Legal Studies, Public Administration, Psychology.

## ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)

### A.S. to B.S.E.E.T. CONCENTRATION

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

### College of Engineering and Computer Science

### Engineering Technology (ENT) Department

### ENGR 207

*Coordinator:* Alireza Rahrooh

407-823-4749, Fax: 407-823-4746

E-mail: [rahrooh@pegasus.cc.ucf.edu](mailto:rahrooh@pegasus.cc.ucf.edu)

Web Address: <http://www.ent.ucf.edu>

## Admission Requirements

Completion of a Statewide Articulated A.S. in Electrical Engineering Technology from a Florida public community college which is composed of 68 hours of course work, including at least 22 hours of transferable General Education courses.

## Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and

# Articulated A.S. To B.S. Programs

upper level courses.

## 1. UCF General Education Program (14 hrs)

- A. Communication Foundations 3 hrs
- B. Cultural and Historical Foundations 3 hrs
- C. Mathematical Foundations 4 hrs
  - 1. Select MAC 2311 or MAC 2253
- D. Social Foundations (0 hrs)
- E. Science Foundations 3-4 hrs
  - 1. Select PHY 2048 or PHY 2053C

Note: See PHY component under Section 2.

## 2. Common Program Prerequisites (CPP) (4-5 hrs)

- MAC 2311 or MAC 2253 GEP
- MAC 2312 or MAC 2254 or equivalent 4 hrs
- PHY 2048 and PHY 2048L 1 hr, GEP
- or PHY 2053C GEP

## 3. Engineering Technology Core Requirements (18 hrs) (C or better grades are required in all courses.)

- ETG 3541 Applied Mechanics 3 hrs
- ETI 3651C Computer Applications 3 hrs
- ETI 3671 Technical Economic Analysis 3 hrs
- ETI 4635 Technology Administration 3 hrs
- ETI 3116 Engineering Quality Assurance 3 hrs
- ENC 3241 Technical Report Writing 3 hrs
- BSC 1005/L or BSC 1050/L 4 hrs

## 4. Upper Level Required Courses (21 hrs) (C or better grades are required in all courses)

- CET 3198C Digital Systems 3 hrs
- CET 3503 Microcomputer Technology I 3 hrs
- CET 4134C Microprocessor Electronics II 3 hrs
- EET 3716 Network Analysis 3 hrs
- EET 4158C Linear Integrated Circuits 3 hrs
- EET 4548 Power Systems 3 hrs
- EET 4732C Feedback Control Systems 3 hrs

## 5. Upper Level Technical Electives (6 hrs) (C or better grades are required in all courses)

- Select six hours from the following:
- CET 3144C Applied Microprocessor Technology 3 hrs
  - CET 4138C Digital Programmable Devices 3 hrs
  - CET 4333 Computer Organization & Design 3 hrs
  - EET 4329C Communication Systems 3 hrs
  - EET 4359C Digital Communications 4 hrs

## 6. Departmental Exit Requirement (3 hrs)

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

## 7. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

## 8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits are permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

**Total Semester Hours Required:** 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.

## Junior Year

Fall	13/14 hrs	Spring	16 hrs
MAC 2253 Applied Calc I or	3/4	PHY 2054C/2049 w/ lab	4
MAC 2311 Calc w/Anal Geom I		ETG 3541 Applied Mechanics	3
ETI 3671 Tech Economic Analysis	3	CET 3198C Digital Systems	3
SPC 1600 Oral Communications	3	ETI 4635 Technical Administration	3
PHY 2053C/2048 Physics I	4	EET 3716 Network Analysis	3

## Summer 10 hrs

- ETI 3116 Appl Eng Quality Assur 3
- BSC 1005L or BSC 1050L Biology 4
- Cultural/Historical Foundation 3

## Senior Year

Fall	13 hrs	Spring	12 hrs
EET 4548 Power Systems	3	EET 4732C Feedback Control Sys	3
EET 4158C Linear Int Cir	3	ETI 3651C Computer Applications	3
CET 3503 Microcomputer Tech 1	3	ETG 4950C Snr Design Project	3
MAC 2312, 2254 or MAP 3401	4	ENC 3241 Writing Tech Pros	3
EST 4227 Photonics Sensor	3		

## Summer 9 hrs

- CET 4333 Comp Org & Design 3
- CET 4138C Digital Program Devices 3
- CET 4134C Microprocessor Elec II 3

## GENERAL BUSINESS (B.S.B.A.)

### A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. in business administration from a Florida public community college)

### College of Business Administration

**BA 240, 407-823-2184**

<http://www.bus.ucf.edu>

*Faculty Advisor:* B. Moore, BA 325, 407-823-5256

### Admission Requirements

Completion of a Statewide Articulated A.S. in Business Administration from a Florida public community college which is composed of 64 hours of course work, including at least 24 hours of transferable General Education courses.

### Degree Requirements

1. UCF General Education Program (12 hrs)  
Students will complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:

- A. Communication Foundations - Required SPC 1600
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundation

### 2. Common Program Prerequisites

- Must be completed with a "C" (2.0) or better.
- ACG 2021 Principles of Financial Accounting
  - ACG 2071 Principles of Managerial Accounting
  - ECO 2013 Macroeconomics
  - ECO 2023 Microeconomics
  - MAC 2233 Concepts of Calculus
  - STA 2023 Statistical Methods
  - CGS 2100CC Computer Fundamentals for Business

### 3. Required for All Business Majors (30 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	6 hrs
GEB 3356	Introduction to International Business	3 hrs
BUL 3130	Legal & Ethical Environments of Business	3 hrs
ECO 3411	Quantitative Business Tools II	3 hrs
FIN 3403	Business Finance	3 hrs
MAN 3025	Management of Organizations	3 hrs
ISM 3011	Essentials of Management Information Systems	3 hrs
MAR 3023	Marketing	3 hrs
Last Semester:		
MAN 4720	Strategic Management	3 hrs

### 4. Special college and/or department requirements:

## Articulated A.S. To B.S. Programs

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB. Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

### 5. Second Level Core (5 courses):

Students must take one course from each of the following areas: Accounting (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 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 4240	Organizations: Theory and Behavior
	MAN 3301	Management of Human Resources
Marketing	MAR 4156	International Marketing
	MAR 4841	Service Marketing
	MAR 3613	Marketing Research and Analysis
	MAR 3403	Sales Force Management

### 6. 4000 Level Requirement:

At least two of the second level courses must be at the 4000 level.

### 7. A.S. Transfer Classes

Twelve credit hours taken under the A.S. to B.S. agreement will be counted toward the degree.

### 8. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

### 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

### 10. Electives\*\*\* (variable)

Must be outside the College of Business

**Total Semester Hours Required 132 hours**

### Community College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residence requirements, credit

will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.

- ACG X001 and X011 will substitute for ACG 2021 at UCF
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

\*\*\*General electives as required to reach 132 semester hours.

## HOSPITALITY MANAGEMENT (B.S.)

### A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

### Rosen College of Hospitality Management

9907 Universal Boulevard

Orlando, Florida 32819

407-903-8000

<http://www.hospitality.ucf.edu>

E-mail: [hospitality@mail.ucf.edu](mailto:hospitality@mail.ucf.edu)

Dean: Abraham Pizam

### Admission Requirements

Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

### Degree Requirements

1. UCF General Education Program (GEP) (18 hrs)  
Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
  - A. Communication Foundations
  - B. Cultural and Historical Foundations
  - C. Mathematical Foundations
  - D. Social Foundations
  - E. Science Foundation

### 2. Common Program Prerequisites (3 hrs)

HFT 1000 Introduction to Hospitality Management 3 hrs

### 3. Hospitality Management Core (27 hrs)

CGS 2100CC	Computer Fundamentals of Business	
or STA 2023	Statistical Methods I	(GEP)
ECO 2013	Macroeconomics	
or ECO 2023	Microeconomics	(GEP)
MAC 1105	College Algebra	(GEP)
HFT 3540	Guest Services Management	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 4295	Leadership and Strg Mgmt in Hospitality Industry	3 hrs
HFT 4286	Hospitality Communications	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 4941	Internship II	1 hr
HFT 4944	Internship III	1 hr
HFT 3933	Distinguished Lectures in Hosp. Mgt.	1 hr

Select 3 of the following 4 courses to complete the core

HFT 3700	Tourism Management	3 hrs
HFT 3261	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park and Attraction Mgmt	3 hrs

### 4. Special School Requirements:

- Grades of "C-" (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
- It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student's responsibility for dropping courses they do not intend to complete.
- Final exams will be given during Exam Week only.

### 5. Restricted Electives (15 hrs)

## Articulated A.S. To B.S. Programs

Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the six specialized career tracks as outlined below.

### A. Generalist Track

(15 hrs)

Choose five advanced courses from the following list:

HFT 3313	Hospitality Physical Plant Management	3 hrs
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
HFT 4861	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	Development of Vacation Ownership Resorts	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 4844	Sanitation Mgt in Foodservice Industry	3 hrs
HFT 4274	Vacation Ownership Resort Management	3 hrs
HFT 4522	Vacation Ownership Resort Sales Tactics and Strategies	3 hrs
HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 4759	Product Development in Theme Parks and Attractions	3 hrs
HFT 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 4269	Case Studies in Multi-Unit Restaurant Mgmt	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs
HFT 4253	Hotel Operations	3 hrs
FSS 3008	Culture and Cuisine	3 hrs
HFT 3784	Amusement Technology	3 hrs
HFT 3802	Catering Management	3 hrs
HFT 3770	Cruise Line Operations and Management	3 hrs
HFT 3574	Food Service Marketing Advertising and Promotion Management	3 hrs
HFT 3654	Franchising in the Restaurant Management	3 hrs
HFT 3610	Law and Restaurant Management	3 hrs
HFT 3374	Multi Media Applications in Exhibitions	3 hrs
HFT 3834	Topics in Restaurant and Foodservice Mgt	3 hrs
HFT 4375	Advanced Trade Show Management	3 hrs
HFT 4864	Anheuser Busch Seminar in Quality Brewing and Fine Beer	3 hrs
HFT 4425	Financial Analysis for Restaurant Managers	3 hrs
HFT 4786	Managing the Guest Experience in Theme Park and Attractions	3 hrs
HFT 4787	Operational Issues in the Theme Park and Attraction Industry	3 hrs
HFT 4281	Restaurant Leadership Strategies and Tactics	3 hrs
HFT 4645	Restaurant Real Estate, Site Selection and Modeling	3 hrs
HFT 4277	Yacht, Country, and City Club Management	3 hrs
HFT 3285	International Restaurant Corporate Mgmt	3 hrs
HFT 3511	Convention and Conference Sales	3 hrs
HFT 3515	Reservations Sales & Marketing	3 hrs
HFT 4284	Training and Performance in the Food Svc Ind	3 hrs
HFT 4795	Entertainment Arts and Events	3 hrs
HFT 4866C	Exploring Wines of the World	3 hrs
HFT 3868	History of Wine and Culture	3 hrs
HFT 4894	International Gastronomy	3 hrs
HFT 3512	Event Promotion	3 hrs
HFT 3670	Hospitality and Event Risk Management	3 hrs
HFT 3785	Management of Gaming Enterprises	3 hrs
HFT 3792	Event Design and Production	3 hrs
HFT 3798	Fairs and Festivals	3 hrs
HFT 4255	Advanced Hotel Development	3 hrs
HFT 4298	Hospitality Business Consulting	3 hrs
HFT 4561	Destination Marketing	3 hrs
HFT 4791	Event Management II	3 hrs
HFT 4796	International Events	3 hrs

HFT 4865	Advanced Wine Management	3 hrs
----------	--------------------------	-------

### B. Event Management Track – Choose 5 Courses (15 hrs)

HFT 4753	Convention and Conferences Services	3 hrs
HFT 4754	Exhibit and Trade Show Operations	3 hrs
HFT 3802	Catering Management	3 hrs
HFT 3741	Meeting Management	3 hrs
HFT 3757	Event Management	3 hrs
HFT 3511	Convention and Conference Sales	3 hrs
HFT 4795	Entertainment Arts and Events	3 hrs
HFT 4375	Advanced Trade Show Management	3 hrs

### C. Vacation Ownership Resort Management Track (15 hrs)

HFT 4275	Development of Vacation Ownership Resorts	3 hrs
HFT 4274	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

### D. Theme Park and Attraction Mgmt Track – Choose 5 Courses (15 hrs)

HFT 4786	Managing the Guest Experience in Theme Parks and Attractions	3 hrs
HFT 4759	Product Development in Theme Parks and Attractions	3 hrs
HFT 4758	Contemporary Issues in the Theme Park 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
HFT 4795	Entertainment Arts and Events	3 hrs

### E. Tourism Management Track (15 hrs)

HFT 4735	Tourism Geography	3 hrs
HFT 4722	Travel Agency Management	3 hrs
HFT 4762	Current Practices in the Airline Industry	3 hrs
HFT 4754	Exhibit & Trade Show Operations	3 hrs
HFT 3757	Event Management	3 hrs

### F. Lodging Management Track (15 hrs)

HFT 3313	Hospitality Physical Plant Management	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4253	Hotel Operations	3 hrs
HFT 3515	Reservations Sales & Marketing	3 hrs

### G. Hospitality Financial Management and Technology (15 hrs)

HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs

### 6. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

### 8. Electives (variable)

### 9. Cooperative Education 0 hrs

500 hours of supervised work experience

## Articulated A.S. To B.S. Programs

**Total Semester Hours Required** **124 hours**

### Community College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Rosen College of Hospitality Management.
- ACG X001 and X011 will substitute for HFT 2403 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.
- The College may allow substitutions for Hospitality classes taken at the community college. Students should check with the Rosen College of Hospitality Management College for approval of substitutions.

## INFORMATION SYSTEMS TECHNOLOGY (B.S.)

### A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

### College of Engineering and Computer Science Engineering Technology (ENT) Department ENGR 207

Coordinator: Bahman Motlagh

407-823-4748 Fax: 407-823-4746

<http://www.ent.ucf.edu>

#### Admission Requirements

Students will be admitted to the program with an **Associate in Science degree in Computer Engineering Technology Network Specialization**. Students admitted under this articulated agreement will be required to satisfy the General Education requirements either at UCF or the courses may be taken at a community college. When applying for admission students need to make sure they indicate on the application form AS-BS IST.

#### Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

#### 1. UCF General Education Program (36 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations<br>(nine hours completed in AS degree program)  | 9 hrs |
| B. Cultural and Historical Foundations<br>(3 hrs taken in AS degree program) | 9 hrs |
| C. Mathematical Foundations<br>(completed in AS degree program)              | 6 hrs |
| D. Social Foundations  | 6 hrs |
| E. Science Foundations   | 6 hrs |

#### 2. Lower Level Required Courses Taken at Community College (33 hrs)

#### 3. Information Systems Technology Core Courses (C or better grade required in all courses) (26 hrs)

- |   |       |
|---|-------|
| ETI 3651C Computer Applications                 | 3 hrs |
| CET 3010 Intro to Info Technology               | 3 hrs |
| STA 2023 Statistical Methods I                  | 3 hrs |
| ETI 4448 Applied Proj Mgmt                      | 3 hrs |
| ENC 3241 Writing for the Technical Professional | 3 hrs |
| EET 3085C Electricity & Electronics             | 4 hrs |
| CET 3323C Digital Technology                    | 4 hrs |
| CET 2364 Systems Applications in C              | 3 hrs |

#### 4. Required Technical Courses (C or better grade required in all courses) (21 hrs)

- |   |       |
|---|-------|
| CET 4427 Applied Database I             | 3 hrs |
| CET 3383 Applied Systems Analysis I     | 3 hrs |
| CET 4505 Applied Operating Systems I    | 3 hrs |
| CET 3752 Intro to Telephony             | 3 hrs |
| CET 4483 Intro to Local Area Network    | 3 hrs |
| CET 4333 Computer Organization & Design | 3 hrs |
| CET 4748 Wide Area Networks I           | 3 hrs |

#### 5. Technical Electives (C or better grade required in all courses) (12 hrs)

Choose four from the following:

- |  |       |
|--|-------|
| CET 3198C Digital Systems              | 3 hrs |
| CET 4138C Digital Programmable Devices | 3 hrs |
| CET 4931 Current Topics in Technology  | 3 hrs |
| CET 4749 Wide Area Network II          | 3 hrs |
| MAP 3401 Problem Analysis              | 3 hrs |
| CET 4523 Applied Systems Analysis II   | 3 hrs |
| CET 4429 Applied Database II           | 3 hrs |
| CET 4583 Web Base Systems I            | 3 hrs |
| CET 4584 Web Base Systems II           | 3 hrs |
| CET 4663 Computer & Networks Security  | 3 hrs |
| STA 5937 Data Mining I                 | 3 hrs |

#### 6. Departmental Exit Requirements none

#### 7. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

#### 8. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

#### 9. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

**Total Semester Hours Required:** **128 hrs**

**Related Programs:** none

**Related Minors:** Security Computing and Networks

#### Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

#### Tentative Course Schedule for Transferring Students

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year	14 hrs	Spring	12 hrs
Fall			
EET 3085C Elect & Electronics	4	CET 4483 Local Area Network	3
CET 3323C Digital Tech	4	ETI 3651C Computer Appl	3
CET 3010 Intro to Info Tech	3	Tech Elective	3
CET 2364 Systems Apps in C	3	STA 2023	3

# Articulated A.S. To B.S. Programs

Summer	9 hrs		
CET 4333 Comp Org & Design		3	
ENC 3241 Tech Rept Writing		3	
ETI 4448 Applied Proj Mgmt		3	
Senior Year			
Fall	12 hrs	Spring	12 hrs
CET 4505 Appl Oper Sys I	3	Tech Elective	3
CET 4427 Appl Database I	3	CET 4483 Intro to LocalArea Net	3
CET 3752 Intro to Telephony	3	Tech Elective	3
CET 4748 Wide Area Networks I	3	Tech Elective	3

## LIBERAL STUDIES (B.S.)

### A.S. TO B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

#### Office of Undergraduate Studies

#### Office of Liberal and Interdisciplinary Studies

#### CL-I, Room 302; <http://liberalstudies.info>

Liberal Studies Advising Team, 407-823-0144

The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

#### Admission Requirements

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:
  - Commerce
  - Computer Science
  - Education
  - Engineering
  - Health and Biomedical Sciences
  - Natural Sciences
  - Public Affairs\*

#### 4. Required Minor (18 hrs min)

Students must complete a minor from those offered at UCF that qualify in the B.S. area. A list of these minors is available in the Liberal Studies office as part of the A.S. to B.S. degree advising sheet. The minor cannot overlap with the two subject areas. The minimum number of credit hours for a minor is eighteen at the upper level. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

#### 5. Program Exit Requirements

A grade of "C" or above (2.0) is required for each course taken in each of the subject areas, including those at the community college

Computer competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment

#### 6. Foreign language Requirements

**Admission-BS:** Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.

**Graduation -BS:** Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement. **Note:** Students entering without having met the admission requirements must do so in order to graduate.

#### 7. Electives (variable)

Select from upper level courses, with Liberal Studies advisor's approval.

#### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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 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.



## Articulated A.S. To B.S. Programs

### NURSING (B.S.N.)

#### E. A.S. TO B.S.N. TRACK

(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

#### College of Health and Public Affairs

HPA 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

RN-BSN Coordinator: Linda Hennig

E-mail: [ucfnurse@mail.ucf.edu](mailto: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.

#### UCF General Education Program (36 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations                         | 9 hrs |
| 1. ENC 1101 & ENC 1102                               |       |
| 2. Prefer SPC 1600                                   |       |
| B. Cultural Historical Foundations                   | 9 hrs |
| C. Mathematical Foundations                          | 6 hrs |
| 1. Select MAC 1105                                   |       |
| 2. Select STA 2014C                                  |       |
| D. Social Foundations                                | 6 hrs |
| 1. Select SYG 2000                                   |       |
| 2. ECO 2013, ECO 2023 or POS 2041                    |       |
| E. Science Foundations:                              | 6 hrs |
| BSC 2010C – General Biology                          |       |
| CHM 1032 & CHM1032L – General Chemistry & Lab        |       |
| OR Anatomy & Physiology I & II                       |       |
| OR ZOO 3733C & PCB 3703C, Human Anatomy & Physiology |       |

#### 2. Common Program Prerequisites (21 hrs)

- |             |                                |          |
|-------------|--------------------------------|----------|
| PSY 2012    | General Psychology**           | GEP      |
| SYG 2000    | Sociology**                    | GEP3 hrs |
| MCB 2004C   | Health Microbiology            | 4 hrs    |
| CHM 1032/L  | General Chemistry and Lab**    | GEP      |
| ZOO 3733C   | Human Anatomy*                 | 4 hrs    |
| PCB 3703C   | Human Physiology*              | 4 hrs    |
| STA 2014C   | Principles of Statistics**     | GEP      |
| or 2023     | Statistical Methods I          |          |
| SOW 3104    | Assessing Human Development or | 3 hrs    |
| or DEP 2004 | Developmental Psychology       |          |
| HUN 3011    | Human Nutrition                | 3 hrs    |

\*May take Anatomy and Physiology sequence of six-eight total credits;

\*\*Also meets General Education Requirements;

See a UCF Nursing advisor for possible course substitutions.

#### 3. Core Requirements (55 hrs)

- |           |                                      |        |
|-----------|--------------------------------------|--------|
| NUR 3805  | Transitional Concepts in Nursing I   | 3 hrs  |
| NUR 3065L | Health Assessment                    | 2 hrs  |
| NUR 3065L | Health Assessment Lab                | 1 hrs  |
| NUR 3165  | Nursing Research/Critical Inquiry    | 3 hrs  |
| NUR 4084  | Transitional Concepts in Nursing II  | 3 hrs  |
| NUR 4636  | Community as Continuum of Care       | 3 hrs  |
| NUR 4636L | Clin Prac in Comm-Oriented Nursing   | 2 hrs  |
| NUR 4827  | Leadership and Management Principles | 3 hrs  |
| NUR 4837  | Health Care Issues, Policy, & Econ   | 3 hrs  |
| NUR 4812  | 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 (or exemption)

#### Total Semester Hours Required 128 hours

**Related Programs:** Health Services Administration, Social Work, all health programs

**Related Minors:** Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

#### Progression requirements:

- Prior to NUR 3805:  
RN status or eligible to take NCLEX.
- Prior to NUR 3165:  
Complete NUR 3805 and Statistics course with grade of "C" (2.0) or better.
- Prior to NUR 4084 :  
Be admitted to the Nursing program  
Complete General Education requirements from a Florida state community college or university (SUS)  
Complete CLAST (or exemption)  
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](mailto: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

## Articulated A.S. To B.S. Programs

program from a Florida public community college that is composed of a minimum of 62 hours of course work, including at least 15 hours of transferable General Education courses. Students certified in radiography and in good standing with the American Registry of Radiologic Technologists (ARRT) who have not completed a Statewide Articulated A.S. in Radiography program from a Florida Public Community College may apply for admission but are not eligible to transfer to UCF under the provisions of the statewide articulation agreement.

- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0).
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

### Degree Requirements

- Students should consult with a departmental advisor
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF residency requirement for Radiography: 33 hours

### 1. UCF General Education Program (21 + 1 hrs)

- |  |       |
|--|-------|
| A. Communication Foundations             | 6 hrs |
| Select ENC 1102 and SPC 1600 or SPC 1016 |       |
| B. Cultural Historical Foundations       | 6 hrs |
| C. Mathematical Foundations              | 0 hrs |
| MAC 1105 (Completed at CC)               |       |
| CGS 1060C (Completed at CC)              |       |
| D. Social Foundations                    | 3 hrs |
| Select ECO 2013 or ECO 2023 or POS 2041  |       |
| E. Science Foundations                   | 7 hrs |
| Select PHY 2053C                         |       |
| Select BSC 1005 or 1050                  |       |

### 2. Common Program Prerequisites (4 hrs)

- |           |                                  |         |
|-----------|----------------------------------|---------|
| CGS 1060C | Introduction to Computer Science | CC      |
| PCB 3703C | Human Physiology*                | CC      |
| PHY 2053C | College Physics I                | UCF GEP |
| PHY 2054C | College Physics II               | 4 hrs   |
| ZOO 3733C | Human Anatomy*                   | CC      |
| MAC 1105  | College Algebra                  | CC      |

CC courses completed as part of the approved A.S. program GEP and core courses with the exception of PHY 2053C and 2054C.

\* See Transfer Notes

### 3. Core Requirements (33 hrs)

**A.S. transfer students will not be required to complete all of the core courses listed below. Specific core course requirements will be based on allowable course transfers and career goals.**

#### Junior Level

- |           |                                     |       |
|-----------|-------------------------------------|-------|
| RTE 3000  | Introduction to Radiologic Sciences | 3 hrs |
| RTE 3111C | Introduction to Patient Care        | 2 hrs |
| RTE 3503C | Radiographic Procedures I           | 3 hrs |
| RTE 3116  | Advanced Patient Care               | 3 hrs |

- |           |  |       |
|-----------|--|-------|
| RTE 3418C | Principles of Radiographic Exposure I  | 3 hrs |
| RTE 3930  | ST: Clinical Education I               | 2 hrs |
| RTE 3513C | Radiographic Procedures II             | 3 hrs |
| RTE 3457C | Principles of Radiographic Exposure II | 3 hrs |
| RTE 3684C | Physics of Image Production            | 2 hrs |
| RTE 3308  | Medical Physics                        | 3 hrs |
| STA 2023  | Statistical Methods I                  | 3 hrs |
| HSC 4550  | Pathophysiologic Mechanisms            | 3 hrs |
| RTE 3930  | ST: Clinical Education II              | 4 hrs |

#### Senior Level

- |          |                                   |       |
|----------|-----------------------------------|-------|
| RTE 4563 | Special Radiographic Procedures   | 2 hrs |
| RTE 4782 | Pathophysiology                   | 2 hrs |
| RTE 4932 | ST: Clinical Education III        | 5 hrs |
| RTE 4573 | Advanced Imaging Modalities       | 3 hrs |
| RTE 4XXX | Computed Tomography Protocols or  | 1 hr  |
| RTE 4XXX | Mag Resonance Imaging Protocols   | 1 hr  |
| RTE 4932 | ST: Clinical Education IV         | 6 hrs |
| RTE 4385 | Radiobiology                      | 1 hr  |
| RTE 4932 | ST: Clinical Education V - A      | 2 hrs |
| RTE 4932 | ST: Clinical Education V - B      | 4 hrs |
| RTE 4473 | Quality Improvement               | 3 hrs |
| RTE 4762 | Anatomy for the Medical Imager    | 3 hrs |
| RTE 4206 | Leadership in Radiologic Sciences | 3 hrs |
| RTE 4932 | ST: Advanced Clinical Practicum   | 4 hrs |

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

### 5. Program Exit Requirements (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)

# COMMON COURSE NUMBERING SYSTEM

## Classification of Courses

The University course numbering system is as follows:

**0-0999** Subcollegiate level and not counted in meeting degree requirements.

**1000-2999** Freshman and sophomore level courses and are designed primarily for these students.

**3000-4999. Junior- and senior-level courses** (Upper-division). These courses contain advanced undergraduate level material and are designed primarily for undergraduate juniors and senior.

**5000-5999. Beginning graduate and advanced undergraduate level courses.** These courses provide more advanced material than that found in undergraduate courses. They are designed primarily for beginning graduate students, but may be suitable for some advanced undergraduate seniors. They are open for registration to all graduate students and those seniors who receive approval of the appropriate Dean(s).

**6000-6999. Advanced graduate level courses.** These courses are designed to build upon the beginning graduate level courses and to deliver more advanced content and experiences. They are open only to graduate students. (Seniors, 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.) Students in 3+2 programs (combined bachelor's and master's programs) should check with their adviser before registering for 6000-level courses.

**7000-7999. Doctoral-level courses.** These courses provide material at the most advanced graduate level. They are restricted to admitted doctoral students only.

## Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This 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 below.)

For example, a survey course in social problems is offered by 35 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 that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully complete SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

## The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

## Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions 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 Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

## Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

### Courses in the x900-x999 series (e.g., ART 2905)

- Internships, practica, clinical experiences, and study abroad courses
- Performance or studio courses in Art, Dance, Theater, and Music
- Skills courses in Criminal Justice
- Graduate courses
- Courses not offered by the receiving institution
- For courses at non-regionally accredited institutions, courses offered prior to the transfer date of the course

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 Dr. David Dees, Assistant Dean of Undergraduate Studies, Academic Services, Millican Hall 210, University of Central Florida, 4000 Central Florida Parkway, Orlando, FL 32816, 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 the Statewide Course Numbering System office at (850) 245-0427 or SunCom 205-0427.

# Common Course Numbering System

Example of Course Identifier					
Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
SYG	1	0	1	0	
Sociology, Freshman level General level at this	Entry-Level General institution	Survey Course  Sociology	Social Problems	No laboratory component in this course	
ABE	Agricultural and Biological Engineering	CEG	Civil Geotechnical Engineering	EDE	Education: Elementary
ABT	Arabic in Translation and/or Translations Skill	CEN	Computer Engineering	EDF	Education: Foundations and Policy Studies
ACG	Accounting: General	CES	Civil Engineering Structures	EDG	Education: General
ACO	Accounting: Occupational/Technical Variable Paced	CET	Computer Engineering Technology	EDH	Education: Higher
ACR	HVACR: Heating/Ventilation/AC/Refrigeration: Tech/Trades	CGN	Civil Engineering	EDM	Education: Middle School
ADE	Adult Education	CGS	Computer General Studies	EDP	Educational Psychology
ADV	Advertising	CHD	Home Economics: Child Development	EDS	Education Supervision
AEB	Agricultural Economics and Business	CHI	Chinese	EED	Education: Early Childhood
AEE	Agriculture and Extension Education	CHM	Chemistry	EEL	Education: Emotional Disorders
AER	Automotive Mechanics	CHR	Chiropractic	EES	Engineering: Electrical
AFA	Afro-American Studies	CHS	Chemistry- Specialized	EER	Electrical/Electronics Repair
AFH	African History	CHT	Chinese Literature in Translation	EES	Environmental Engineering Science
AFR	Aerospace Studies	CHW	Chinese Literature (Writings)	EET	Electronic Engineering Technology
AFS	African Studies	CIS	Computer Science and Information Systems	EEV	Electrical/Electronic: Vocational
AGE	Agricultural Engineering	CJB	College Level Application in Criminal Justice	EEX	Education: Exceptional Child- Core Competencies
AGG	Agriculture- General	CJC	Corrections	EGC	Counselor Education
AGR	Agronomy	CJD	Criminal Justice Development	EGI	Education: Gifted
AKA	Akan	CJE	Law Enforcement	EGM	Engineering Science
ALS	Agriculture and Life Sciences	CJJ	Juvenile Justice	EGN	Engineering: General
AMH	American History	CJK	Criminal Justice Basic Training (A.A.S or Vocational)	EGS	Engineering: Support
AML	American Literature	CJL	Law and Process	EHD	Education: Hard of Hearing & Deaf
AMS	American Studies	CJT	Criminal Justice Technologies	EIA	Education: Industrial Arts
AMT	Aviation Maintenance Technology	CLA	Classical and Ancient Studies	EIN	Industrial Engineering
ANG	Anthropology- Graduate	CLP	Clinical Psychology	EIV	Education: Industrial/Vocational
ANS	Animal Science	CLT	Classical Literature in Translation	ELD	Education: Specific Learning Disabilities
ANT	Anthropology	CMC	Corporate Media Communication	ELR	Electrical Laboratories and Related Areas
AOM	Agricultural Operations Management	CNT	Computer Networks	EMA	Materials Engineering
APA	Applied Accounting	COA	Home Economics: Consumer Affairs	EMC	Engineering: Mechanical & Chemical
APB	Applied Biology	COE	Cooperative Education	EME	Education: Technology and Media
ARA	Arabic Language	COM	Communication	EML	Engineering: Mechanical
ARC	Architecture	COP	Computer Programming	EMR	Education: Mental Retardation
ARD	Architectural Design	COS	Cosmetology	EMS	Emergency Medical Services
ARE	Art Education	COT	Computing Theory	ENC	English Composition
ARH	Art History	CPO	Comparative Politics	ENG	English- General
ARR	Autobody Repair and Refinishing	CPS	Comparative Policy Studies (Multinational)	ENL	English Literature
ART	Art	CPT	Cardiopulmonary Technology	ENS	English for Non-Native Speakers (College-Level Courses)
ARV	"Art, Vocational"	CRW	Creative Writing	ENU	Engineering: Nuclear
ASC	Aviation Science: General	CSP	Cosmetology- Specialized	ENV	Engineering: Environmental
ASG	Animal Science: General	CST	Comparative Studies	ENT	Entomology
ASH	Asian History	CTE	Home Economics: Clothing and Textiles	EOC	Ocean Engineering
ASN	Asian Studies	CTS	Computer Technology and Skills	EPH	Education: Physical & Multiple Handicapped
AST	Astronomy	CVT	Cardiovascular Technology	ESC	Earth Science
ATE	Animal Science Technology	CWR	Civil Water Resources	ESE	Education: Secondary
ATF	Aviation Technology: Flight	CYP	Community Psychology	ESI	Industrial/Systems Engineering
ATT	Aviation Technology: Theory	CZE	Czech Language	ESL	College- Preparatory English for Non-Native Speakers
AVM	Aviation Management	CZW	Czech Literature (Writings)	EST	Electronic Specialty Technology
AVS	Avionics	DAA	Dance, Emphasis on Activity	ETC	Engineering Technology: Civil
AYM	Aymara Language	DAE	Dance Education	ETD	Engineering Technology: Drafting
BAN	Commercial Banking (AIB Courses Only)	DAN	Dance	ETG	Engineering Technology: General
BCA	Building Construction Apprenticeships	DAS	Dairy Science	ETI	Engineering Technology: Industrial
BCC	Basic Clinical Clerkships (Required)	DEA	Dental Assisting	ETM	Engineering Technology: Mechanical
BCH	Biochemistry (Biophysics)	DEC	Marketing and Distributive Education	ETN	Electroencephalographic Technology
BCN	Building Construction	DEH	Dental Hygiene	EUH	European History
BCT	Building Construction Trades	DEM	Demography	EUS	European Studies
BCV	Building Construction: Vocational	DEN	Dentistry	EVI	Education: Visually Impaired- Blind
BME	Biomedical Engineering	DEP	Developmental Psychology	EVR	Environmental Studies
BMS	Basic Medical Sciences	DES	Dental Support	EVS	Environmental Science
BOT	Botany	DIE	Dietetics	EVT	Education: Vocational/Technical
BRC	Banking Related courses (not AIB or IFE)	DIM	Diesel Mechanics	EXP	Experimental Psychology
BSC	Biological Sciences	DTE	Dental Laboratory Technology	FAD	Home Economics: Family Development
BTE	Business Teacher Education	DUT	Dutch Language	FAM	Fashion Modeling
BUL	Business Law	EAB	Experimental Analysis of Behavior	FAS	Fishery & Aquacultural Science
CAP	Computer Applications (for Computer Scientists)	EAP	English for Academic Purposes	FES	Fire and Emergency Services
CAS	Clinical Audiology and Speech Language Pathology	EAS	Aerospace Engineering	FFP	Fire Fighting & Protection
CAT	CAT	ECH	Engineering: Chemical	FIL	Film
CBH	Comparative Psychology and Animal Behavior	ECM	Engineering: Computer Math	FIN	Finance
CCE	Civil Construction Engineering	ECO	Economics	FLE	Foreign Language Education
CCJ	Criminology and Criminal Justice	ECP	Economic Problems & Policy	FNR	Forestry & Natural Resources
CDA	Computer Design/Architecture	ECS	Economic Systems & Development		
		EDA	Educational Administration		

## Common Course Numbering System

FOL	Foreign and Biblical Languages	LAH	Latin American History	MVW	Applied Music: Woodwinds
FOR	Forestry	LAS	Latin American Studies	NEM	Nematology
FOS	Food Science	LAT	Latin (Language Study)	NGR	Nursing, Graduate
FOT	Foreign and Biblical Languages (in Translation)	LAW	Law	NMT	Nuclear Medicine Technology
FOW	For and Bibl Lang, Comparative Lit (Writings)	LBS	Labor Studies	NSC	Naval Science
FRC	Fruit Crops	LEI	Leisure	NUR	Nursing, Generic Undergraduate
FRE	French Language	LIN	Linguistics	OCA	Office Computer Applications
FRT	French in Translation and/or Translation Skills	LIS	Library and Information Studies	OCB	Biological Oceanography
FRW	French Literature (Writings)	LIT	Literature	OCC	Chemical Oceanography
FSE	Funeral Services	LNW	Latin Literature (Writings)	OCE	General Oceanography
FSS	Food Service Systems	MAA	Mathematics- Analysis	OCG	Geological Oceanography
FYC	Family, Youth, and Community	MAC	Mathematics- Calculus and Pre-calculus	OCP	Physical Oceanography
GCO	Golf Course Operations	MAD	Mathematics- Discrete	OFT	Office Technology (Occupational/Variable Paced)
GEA	Geography: Regional Areas	MAE	Mathematics Education	OPT	Ophthalmic Technology/Vision Care
GEB	General Business	MAG	Mechanized Agriculture	ORH	Ornamental Horticulture
GEO	Geography: Systematic	MAN	Management	ORI	Oral Interpretation
GER	German	MAP	Mathematics Applied	ORV	Ornamental Horticulture (Variable Paced)
GET	German Literature in Translation	MAR	Marketing	OSE	Optical Science and Engineering
GEW	German Literature (Writings)	MAS	Mathematics- Algebraic Structures	OST	Office Systems Technology
GEY	Gerontology	MAT	Mathematics	OTA	Office Technology Applications
GFD	Geophysical Fluid Dynamics	MCB	Microbiology	OTH	Occupational Therapy
GLS	Graduate Liberal Studies	MCC	Special Topics in Mass Communication	PAD	Public Administration
GLY	Geology	MDW	Midwifery	PAF	Public Affairs
GMS	Graduate Medical Sciences	MEA	Medical Assisting Technology	PAS	Physician Assistant
GMT	Modern Greek Literature in Translation	MEL	Medical Science Electives	PAX	Peace Studies
GMW	Modern Greek Literature (Writings)	MER	Mental Retardation	PAZ	Parks and Zoos
GRA	Graphic Arts	MET	Meteorology	PCB	Process Biology , Cell/Molecular/Ecology/ Genetics/Physiology
GRE	Classical Greek (Language Study)	MGF	Mathematics- General and Finite	PCO	Psychology for Counseling
GRK	Modern Greek Language	MGR	Primary Care of Older Adults	PEL	Phys. Edu. Acts- (Gen)- Object Centered, Land
GRW	Classical Greek Literature (Writings)	MHF	Mathematics- History and Foundations	PEM	Phys. Edu. Acts. (Gen)- Perform. Centered, Land
HAI	Haitian Creole Language	MHS	Mental Health Services	PEN	Physical Edu. Activities (Gen)- Water, Snow, Ice
HBR	Modern Hebrew Language	MIS	Military Science	PEO	Phys. Edu. Acts (Profln.)- Object Centered, Land
HBT	Modern Hebrew in Translation	MKA	Marketing Applications	PEP	Phys. Edu. Acts (Profln.)- Perform. Centered, Land
HCA	Health Care Administration	MLS	Medical Laboratory Science	PEQ	Phys. Edu. Acts (Profln.)- Water, Snow, Ice
HCP	Health-Care Providers (Assistants)	MLT	Medical Laboratory Technology	PET	Physical Education Therapy
HEB	Ancient Hebrew	MMC	Mass Media Communication	PGY	Photography
HEC	Home Economics/Community	MNA	Management: Applied	PHA	Pharmacy
HEE	Home Economics Education	MOB	Molecular Biophysics	PHC	Public Health Concentration
HEV	Home Economics- Vocational	MOM	Motorcycle Mechanics	PHH	Philosophy, History of
HFT	Hospitality Management	MRE	Medical Records	PHI	Philosophy
HHD	Housing & Home Design	MSS	Massage	PHM	Philosophy of Man and Society
HIM	Health Information Management	MTB	Mathematics- Technical and Business	PHP	Philosophers and Schools
HIS	General History and Histrography	MTE	Marine Technology and Nautical Science	PHT	Physical Therapy
HLP	Health, Leisure, and Physical Education	MTG	Mathematics- Topology and Geometry	PHY	Physics
HME	Home Economics: Home Management and Equipment	MHF	Mathematics- History and Foundations	PHZ	Physics (Continued)
HMV	Hospitality Management, Vocational	MHS	Mental Health Services	PKG	Packaging Sciences
HMW	Modern Hebrew Literature (Writings)	MIS	Military Science	PLA	Paralegal/ Legal Assistant/ Legal Administration
HOE	Home Economics: General	MKA	Marketing Applications	PLP	Plant Pathology
HOS	Horticultural Sciences	MLS	Medical Laboratory Science	PLS	Plant Science
HRD	Human Resources Development	MLT	Medical Laboratory Technology	PLT	Polish in Translation and/or Translation Skills
HSA	Health Services Administration	MMC	Mass Media Communication	PLW	Polish Literature
HSC	Health Sciences	MNA	Management: Applied	PMA	Pest Management
HUM	Humanities	MOB	Molecular Biophysics	PMT	Precision Metals Technology
HUN	Human Nutrition	MOM	Motorcycle Mechanics	POL	Polish Language
HUS	Human Services	MRE	Medical Records	POR	Portuguese Language
ICM	International Construction Management	MSS	Massage	POS	Political Science
ICW	Icelandic Literature	MTB	Mathematics- Technical and Business	POT	Political Theory
IDH	Interdisciplinary Honors	MTE	Marine Technology and Nautical Science	POW	Portuguese Literature (Writings)
IDS	Interdisciplinary Studies	MTG	Mathematics- Topology and Geometry	PPE	Personality
IEA	Industrial Education Applied	MTS	Medical Transcription Science	PRN	Practical Nursing
IHS	Interdisciplinary Health Sciences	MUC	Music: Composition	PRO	Prosthetics/Orthotics
IND	Interior Design	MUE	Music Education	PRT	Portuguese in Translation
INP	Industrial and Applied Psychology	MUG	Music: Conducting	PSB	Psychobiology
INR	International Relations	MUH	Music: History/Musicology	PSC	Physical Sciences
IPM	Integrated Pest Management	MUL	Music Literature	PSE	Poultry Science
ISC	Interdisciplinary Sciences	MUM	Music: Commercial/Management/Administration	PSY	Psychology
ISM	Information Systems Management	MUN	Music Ensembles	PTN	Pharmacy Technician
ISS	Interdisciplinary Social Sciences	MUO	Music: Opera/Musical Theatre	PUP	Public Policy
ITA	Italian Language	MUR	Music: Church	PUR	Public Relations
ITT	Italian Literature in Translation	MUS	Music	QMB	Quantitative Methods in Business
ITW	Italian Literature (Writings)	MUT	Music: Theory	RAT	Radiation Therapy
JOU	Journalism	MUY	Music: Therapy	RCS	Rehabilitation Counseling Services
JPN	Japanese	MVB	Applied Music: Brasses	REA	Reading
JPT	Japanese Literature in Translation	MVH	Historical Instruments	RED	Reading Education
JPW	Japanese Literature (Writings)	MVJ	Applied Music: Jazz	REE	Real Estate
JST	Jewish/Judaic Studies	MVK	Applied Music: Keyboard	REL	Religion
KOR	Korean Language and Literature	MVO	Applied Music: Other	RET	Respiratory Care
LAA	Landscape Architecture	MVP	Applied Music: Percussion	RHT	Radiation Health/ Radiation Protection Technology
LAE	Language Arts and English Education	MVS	Applied Music: Strings	RMI	Risk Management & Technology
		MVV	Applied Music: Voice		

# Common Course Numbering System

ROT	Reactor Operator Technology
RSD	Rehabilitation Science Doctorate
RTE	Radiologic Technology
RTT	Radio/Television Technology
RTV	Radio-Television
RUS	Russian Language
RUT	Russian Literature in Translation
RUW	Russian Literature (Writings)
SAL	South Asian Languages
SBM	Small Business Mgmt: Occupational Technical Variable Paced
SCA	Scandinavian Literature
SCE	Science Education
SCT	Scandinavian Literature in Translation
SCW	Serbo-Croatian Literature (Writing)
SDS	Student Development Services
SEC	Serbo-Croatian Language
SED	Speech Education
SER	Small Engine Mechanics
SHO	Shona Language
SLA	Second Language Acquisition/ Instructional Technology
SLL	Slavic Languages
SLS	Student Life Skills (Learning)
SLW	Slavic Literature (Writings)
SNW	Scandinavian Literature
SON	Sonography
SOP	Social Psychology
SOS	Soil Science
SOW	Social Work
SPA	Speech Pathology and Audiology
SPC	Speech Communication
SPN	Spanish Language
SPS	School Psychology
SPT	Spanish Literature in Translation and/or Translation Skills
SPW	Spanish Literature (Writings)
SSA	Sub-Sahara African Languages
SSE	Social Studies Education
SST	Sub-Sahara African Literature in Translation
STA	Statistics
STS	Surgical Technology Studies
SUR	Surveying & Related Areas
SVL	Savings and Loan (IFE Courses only)
SWA	Swahili Language
SWT	Swahili Literature in Translation
SYA	Sociological Analysis
SYD	Sociology of Demography/Area Studies/ Sociological Minorities
SYG	Sociology, General
SYO	Social Organization
SYP	Social Processes
TAR	Technical Architecture
TAX	Taxation
TDR	Technical Drafting
THE	Theatre Studies and General Resources
TPA	Theatre Production and Administration
TPP	Theatre Performance and Performance Training
TRA	Transportation and Logistics
TSL	Teaching English as a Second Language
TTE	Transportation Engineering
URP	Urban and Regional Planning
URS	Urban and Regional Studies
VAR	Variable-Paced Architecture
VEC	Vegetable Crops
VEM	Veterinary Medicine Professional
VIC	Visual Communication
VME	Veterinary Medicine Graduate
VPI	Vocational Preparatory Instruction
WCL	Ward Clerk
WDS	Weed Science
WIS	Wildlife Science
WOH	World History
WST	Women's Studies
YOR	Yoruba Language
YOT	Yoruba Literature in Translation
YRW	Yoruba Literature (Writings)
ZOO	Zoology

## Courses Numbered 0-999

Depending upon previous background and test scores earned, individual students may be required to complete more than the minimum number of credits required for graduation in their respective programs. Courses numbered less than 1000 (Statewide Common Course Numbers) are sub-collegiate level and may not be counted in meeting degree credit hour requirements for graduation.

## Special Courses

In addition to the regular courses listed in this catalog, special courses may be available. Students should consult their academic advisor for details.

Special Undergraduates	Grad <sup>1</sup>
Directed Independent Studies 3905, 4906, 5907	1906, 2905, 5907
Directed Independent Research	4912, 5917 5917
Special Undergraduate Research	IDS 3913, 4914
Special Topics/Seminars	1931, 2930, 3930, 4932, 5937
*Internships, Practicums, Clinical Prac	3940, 4941 59442
Cooperative Education <sup>3</sup>	1949, 2949, 5949
Honors Undergraduate Thesis	3970, 4970
Honors Directed Reading <sup>1</sup>	4903
Honors Directed Reading <sup>2</sup>	4904
Study Abroad	4955 5957

\*These courses may be assigned variable credit. Some may be repeated upon approval.

<sup>1</sup>The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.

<sup>2</sup>Enrollment is limited to those students who are fully admitted to the Graduate Program.

<sup>3</sup>Enrollment is limited to those students who are admitted into the Co-op program.

## Dual Usage of Credit Hours

With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should contact their advisor or college for specific program requirements or additional information.

## UCF Course Description Legend

**PR: (Prerequisite)** A course in which credit must be earned prior to enrollment in the listed course.

**CR: (Corequisite)** A course that must be taken concurrently with, or prior to, the listed course.

**CI: (Consent of the Instructor)**

## Hours Code

Each course listed is followed by a code that shows hours of credit and contact hours.

Example:

**ENV 4121C ECS-CEE 3(2,3)**

ENV 4121C is offered by the College of Engineering and Computer Science (ECS), in the Civil and Environmental Engineering (CEE) Department, carries 3 hours of credit but requires 5 contact hours which consist of

2 hours in class and 3 hours laboratory or field work.

## College/School/Department Indicator

Following the course number for each course listed is an indicator denoting the college, school, and department responsible for the course. The college designators are BA = Business Administration, AH = Arts & Humanities, BHC = Burnett Honors College, COS = Sciences, ED = Education, ECS = Engineering and Computer Science, HM = Hospitality Management, and HPA = Health and Public Affairs. Department indicators are listed below (by college):

College/ School	Department	Abbreviation
AS	African American Studies	AAS
AS	Art	ART
AS	Arts & Sciences	CAS
AS	Biology	BIOL
AS	Chemistry	CHEM
AS	Communication	COMM
AS	Digital Media	DIG
AS	English	ENG
AS	Film	FILM
AS	Foreign Languages	LANG
AS	History	HIST
AS	Judaic Studies	JUD
AS	Liberal Studies	LS
AS	Mathematics	MATH
AS	Music	MUSIC
AS	OASIS	OASIS
AS	Philosophy	PHIL
AS	Physics	PHYS
AS	Political Science	POLS
AS	Psychology	PSYCH
AS	Radio/TV	R/TV
AS	Sociology & Anthropology	SOC/AN
AS	Statistics	STAT
AS	Theatre	THEA
AS	Women's Studies	WOM
BA	Accounting	ACCT
BA	Business	BUS
BA	Economics	ECON
BA	Finance	FIN
BA	Management	MAN
BA	Management Information System	MIS
BA	Marketing	MAR
ECS	Air Force ROTC-Aerospace	AFROTC
ECS	Civil & Environmental	CEE
ECS	Electrical Eng & Computer Sci	EECS
ECS	Engineering	ENGR
ECS	Engineering Technology	ENT
ECS	Industrial & Management	IEMS
ECS	Mechanical/Materials/Aerospace	MMAE
ECS	Military Science-Army ROTC	AROTC
ED	Child, Family & Comm Services	CFCS
ED	Education	EDU
ED	Ed Research, Tech & Lead	ERTL
ED	Educational Foundations	EDF
ED	Educational Studies	ES
ED	Human Services/Wellness	HSW
ED	Instructional Programs	IP
ED	Teaching & Learning Principles	TLP
HM	Hospitality Management	HOSP
HPA	Communicative Disorders	COMD
HPA	Criminal Justice & Legal Studies	CJLS
HPA	Health & Public Affairs	HPA
HPA	Health Information Management	HIM
HPA	Health Professions	HP
HPA	Molecular & Microbiology	M&M
HPA	Nursing	NURS
HPA	Public Administration	PUB
HPA	SocialWork	SOW

# UCF Courses and Descriptions

**Finding a Course in this List:** The UCF courses in this section are listed alphabetically by prefix. Consult the "Common Course Numbering System" section of the *Undergraduate Catalog* for additional information.

**Availability of Courses:** The University does not offer all of the courses listed in this *Undergraduate Catalog* each academic year, academic semester, or term. Consult the online Class Schedule at <https://my.ucf.edu> for those courses offered each semester/term.

At the end of each course description is information on the planned scheduling of the course, (Fall, Spring or Occasional-department scheduled, Odd-Even based on year of term), and any applicable Material and Supply (M&S) Fee.

ACG 2021 Principles of Financial Accounting: PR: Sophomore standing and MAC 1105 or equivalent. Nature of accounting, financial statements, the accounting cycle, assets, current liabilities, long-term debt, and owner's equity; accounting for proprietorships and corporations. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ACG 4401C Accounting Information Systems: PR: Accounting major or minor, ACG 3131 and CGS 2100C, with a grade of "C" or better. Manual and computer-based accounting information systems. <i>Fall, Spring.</i>	BA-ACCT 3(3,1)	ADV 3000 Principles of Advertising: PR: SPC 1600. Overview of the field of advertising: purposes, techniques, the role of agencies, advertisers and the media. <i>Fall, Spring.</i>	COS-COMM 3(3,0)
ACG 2021H Honors Principles of Financial Accounting: PR: MAC 1105 and consent of Honors. Same as ACG 2021 with honors level content. <i>Occasional.</i>	BA-ACCT 3(3,0)	ACG 4651 Auditing: PR: Accounting major or minor, ACG 3141 and ACG 4401C with a grade of "C" or better. The standards, practices, and procedures followed in the audit function. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ADV 4101 Advertising Copywriting: PR: AD/PR majors only and ADV 3000. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media. <i>Fall, Spring.</i>	COS-COMM 3(3,0)
ACG 2071 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. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ACG 4671 Internal Auditing: PR: Accounting major or minor, ACG 3131 or ACG 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ADV 4103 Radio-Television Advertising: PR: R/TV 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. <i>Fall, Spring.</i>	COS-COMM 3(3,0)
ACG 3082 Accounting For Non-Business Majors: PR: Junior Standing. Accounting and reporting from an investment and managerial decision making perspective. <i>Occasional.</i>	BA-ACCT 3(3,0)	ACG 5005 Accounting Foundations: PR: Acceptance to Graduate Study. Accounting and reporting from an investment and managerial decision making perspective. <i>Fall, Spring.</i>	BA-ACCT 1.5(1.5,0)	ADV 4300 Advertising Media Planning: PR: ADV 3000 and AD/PR major. Media planning and buying, including basic media terms, calculations, and resources. <i>Occasional.</i>	COS-COMM 3(3,0)
ACG 3131 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. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ACG 5206 Seminar in Financial Reporting: PR: Acceptance for graduate study and all accounting foundation courses. An in-depth study of advanced financial reports. <i>Occasional.</i>	BA-ACCT 3(3,0)	AFA 2300 African American Music: Comprehensive look at music written and made popular by African Americans. <i>Occasional.</i>	CAH-AAS 3(3,0)
ACG 3141 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. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ACG 5346 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 managerial decision-making. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	AFA 3102 Black Perspectives: A Multidisciplinary Approach: PR: ENC 1102. Key issues and methodologies in African American Studies featuring presentations by representative faculty from various disciplines. <i>Fall, Spring.</i>	CAH-AAS 3(3,0)
ACG 3361 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. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ACG 5405 Advanced Accounting Information Systems: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 4401C. Design, analysis and evaluation of accounting information systems. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	AFA 3104 The African American Experience: PR: AFA 3102. The black experience in the African diaspora: interdisciplinary examination of major texts, theories, practices and philosophic foundations in African American intellectual and cultural history. <i>Fall, Spring.</i>	CAH-AAS 3(3,0)
ACG 3501 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. <i>Fall, Spring.</i>	BA-ACCT 3(3,0)	ACG 5517 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. <i>Occasional.</i>	BA-ACCT 3(3,0)	AFA 3955 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. <i>Occasional.</i>	CAH-AAS 6(6,0)
ACG 4252 International Financial and Managerial Accounting: PR: Accounting major or minor, ACG 2021, ACG 2071. An examination of environmental factors affecting international accounting standards and multinational corporate operations. Not open to accounting majors. <i>Occasional.</i>	BA-ACCT 3(3,0)	ACG 5625 Auditing and EDP: PR: Acceptance for graduate study, ACG 4401C, and ACG 4651. An examination of auditing procedures followed when a company uses a computer to process financial records. <i>Occasional.</i>	BA-ACCT 3(3,0)	AFA 4105 Documenting African American Heritage and Life: PR: AFA 3104 or Junior standing. Community-based exploration of tools, methods, and techniques of documenting African American life and heritage, focusing on Central Florida black communities. <i>Occasional.</i>	CAH-AAS 3(3,0)
ACG 4284 Financial Reporting for Consolidated Entities: PR: ACG 3141. Financial reporting practices and issues related to consolidated entities including translation of foreign financial statements. <i>Occasional.</i>	BA-ACCT 3(3,0)	ADE 4382 Teaching Adult Learners in Technical Programs: PR: EVT 3365 or CI. Planning for and teaching of adult learners in formal & informal technical settings. <i>Fall.</i>	ED-TLP 3(3,0)	AFA 5930 Topics in African American Studies: PR: graduate status or senior standing or C.I. This interdisciplinary seminar uses primary texts to examine the impact of black culture, aesthetic and philosophical ideas on 20th century American society. <i>Occasional.</i>	CAH-AAS 3(3,0)
				AFH 3100 African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870. <i>Occasional.</i>	CAH-HIST 3(3,0)

## UCF Courses and Descriptions

AFH 3200	CAH-HIST	3(3,0)	AMH 2020H	CAH-HIST	3(3,0)	AMH 3562	CAH-HIST	3(3,0)
African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present. <i>Occasional.</i>			Honors U.S. History: 1877-Present: PR: Permission of Honors and AMH 2010 or C.I. Survey of U.S. History from 1877 to the present. May be taken before AMH 2010. Honors-level content. <i>Fall, Spring.</i>			Women in American History II: PR: AMH 2010, AMH 2020 or C.I. Examines industrialization, entry of women into higher education and professions, winning of suffrage, changing profile of female wage earner, and rise of modern feminist movement. <i>Occasional.</i>		
AFH 5806	CAH-HIST	3(3,0)	AMH 3370	CAH-HIST	3(3,0)	AMH 3571	CAH-HIST	3(3,0)
The Historiography of Slavery in Africa: PR: graduate status or senior standing or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa. <i>Occasional.</i>			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. <i>Occasional.</i>			Black American History I: PR: AMH 2010, AMH 2020 or C.I. History of Black Americans from Africa, to slavery, to freedom and its limits in pre-World War I America. <i>Occasional.</i>		
AFR 1101C	ECS-AFROTC	1(1,2)	AMH 3402	CAH-HIST	3(3,0)	AMH 3572	CAH-HIST	3(3,0)
The Air Force Today I: History, mission, organization, and doctrine of the United States Air Force and a study of U.S. Strategic Offensive and Defensive Forces. Hands on training. <i>Fall.</i>			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. <i>Occasional.</i>			Black American History II: PR: AMH 2010, AMH 2020 or C.I. A history of Black America in the Twentieth Century and the continuing struggle for equality in America. <i>Occasional.</i>		
AFR 1111C	ECS-AFROTC	1(1,2)	AMH 3403	CAH-HIST	3(3,0)	AMH 3586	CAH-HIST	3(3,0)
The Air Force Today II: A brief review of the Army, Navy, and Marine forces. An introduction to special operations and counterinsurgency. <i>Spring.</i>			History of the South Since 1865: PR: AMH 2010 and 2020, or C.I. Reconstruction, the "solid South" and the racial dilemma, progressivism for whites only, southern literature, 20th-century economic, political and social changes, and the new Reconstruction. <i>Occasional.</i>			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. <i>Occasional.</i>		
AFR 2130C	ECS-AFROTC	1(1,2)	AMH 3421	CAH-HIST	3(3,0)	AMH 3610	CAH-HIST	3(3,0)
The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II. Hands on training. <i>Fall.</i>			History of Florida to 1845: PR: AMH 2010 and 2020 or C.I. <i>Occasional.</i>			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. <i>Occasional.</i>		
AFR 2131C	ECS-AFROTC	1(1,2)	AMH 3423	CAH-HIST	3(3,0)	AMH 3613	CAH-HIST	3(3,0)
The Development of Air Power II: A study of the development of aerospace capabilities since World War II, highlighting technological advancements and the role of aerospace power in the contemporary world. <i>Spring.</i>			Florida History 1845-Present: PR: AMH 2010 and 2020 or C.I. <i>Occasional.</i>			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. <i>Odd Spring.</i>		
AFR 3220C	ECS-AFROTC	3(3,2)	AMH 3441	CAH-HIST	3(3,0)	AMH 3800	CAH-HIST	3(3,0)
Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles. Hands on training. <i>Fall.</i>			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. <i>Occasional.</i>			Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867. <i>Occasional.</i>		
AFR 3230C	ECS-AFROTC	3(3,2)	AMH 3442	CAH-HIST	3(3,0)	AMH 4110	CAH-HIST	3(3,0)
Air Force Evaluation and Management II: PR: AFR 3220C or C.I. A concluding study of Air Force management fundamentals, including performance evaluation skills. <i>Spring.</i>			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. <i>Occasional.</i>			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. <i>Occasional.</i>		
AFR 4201C	ECS-AFROTC	3(3,2)	AMH 3541	CAH-HIST	3(3,0)	AMH 4112	CAH-HIST	3(3,0)
National Security Affairs and Prep for Active Duty I: PR: AFR 3220C. Examination of the military and its role in American society. A study of the framework and formation of defense strategy. Hands on training. <i>Fall.</i>			U. S. Military History To 1900: PR: AMH 2010 and AMH 2020. U.S. military history from the colonial period to 1900 focusing on the creation of American military institutions, conduct of war, and influence on society. <i>Occasional.</i>			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. <i>Occasional.</i>		
AFR 4210C	ECS-AFROTC	3(3,2)	AMH 3547	CAH-HIST	3(3,0)	AMH 4130	CAH-HIST	3(3,0)
National Security Affairs and Prep for Active Duty II: PR: An examination of defense implementation and its impact on the decision-making process. A study of the military justice system and its protection of individual rights. <i>Spring.</i>			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. <i>Occasional.</i>			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. <i>Occasional.</i>		
AMH 2010	CAH-HIST	3(3,0)	AMH 3558	CAH-HIST	3(3,0)	AMH 4140	CAH-HIST	3(3,0)
U.S. History: 1492-1877: Survey of U.S. History from 1492-1877. <i>Fall, Spring.</i>			History of American Law: PR: AMH 2010 and AMH 2020, or EUH 2000 and EUH 2001. The social, political, and economic significance of the law as a historic process in America. <i>Occasional.</i>			Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812. <i>Occasional.</i>		
AMH 2010H	CAH-HIST	3(3,0)	AMH 3561	CAH-HIST	3(3,0)	AMH 4160	CAH-HIST	3(3,0)
Honors U.S. History: 1492-1877: PR: Consent of Honors. Survey of U.S. History from 1492-1877. <i>Fall, Spring.</i>			Women in American History I: PR: AMH 2010, AMH 2020. Examines women in indigenous, colonial, African-American slave and free societies, Republican Motherhood, impact of industrialization on women's roles, and emergence of women's rights movement. <i>Occasional.</i>			Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict. <i>Occasional.</i>		
AMH 2020	CAH-HIST	3(3,0)				AMH 4170	CAH-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. <i>Fall, Spring.</i>						Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism. <i>Occasional.</i>		



<p><b>AMH 4201</b> CAH-HIST 3(3,0)  <b>The Gilded Age and Progressivism:</b> 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. <i>Occasional.</i></p>	<p><b>AMH 5137</b> CAH-HIST 3(3,0)  <b>Colloquium in U.S. Revolutionary Period:</b> PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in the Revolutionary Era, 1763-1789. <i>Occasional.</i></p>	<p><b>AML 3041</b> CAH-ENG 3(3,0)  <b>American Literature II:</b> PR: Grade of C (2.0) or better required in ENC 1102. Major American writers from Twain to present. <i>Fall, Spring.</i></p>
<p><b>AMH 4231</b> CAH-HIST 3(3,0)  <b>United States History: 1914-1939:</b> PR: AMH 2010 and 2020 or C.I. The progressive reforms of Woodrow Wilson, World War I, post-war prosperity, the Depression, the New Deal, and the coming of World War II. <i>Occasional.</i></p>	<p><b>AMH 5149</b> CAH-HIST 3(3,0)  <b>Colloquium in Early U.S. History, 1789-1815:</b> PR: graduate status or senior standing or C.I. Reading and class discussion on selected topics of the early national period. <i>Occasional.</i></p>	<p><b>AML 3283</b> CAH-ENG 3(3,0)  <b>Contemporary American Women's Fiction:</b> PR: Grade of C (2.0) or better required in ENC 1102. Examines how novels and short stories by contemporary U.S. women define identity from diverse woman-centered and feminist perspectives. <i>Occasional.</i></p>
<p><b>AMH 4270</b> CAH-HIST 3(3,0)  <b>United States History: 1939-1960:</b> PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties. <i>Occasional.</i></p>	<p><b>AMH 5169</b> CAH-HIST 3(3,0)  <b>Colloquium in Age of Jackson:</b> PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of the Jacksonian age. <i>Occasional.</i></p>	<p><b>AML 3613</b> CAH-ENG 3(3,0)  <b>Narratives of Slavery:</b> PR: Grade of C (2.0) or better required in ENC 1102. Literary representations of New World slavery in the past and the present. <i>Occasional.</i></p>
<p><b>AMH 4273</b> CAH-HIST 3(3,0)  <b>U. S. History Since 1960:</b> PR: AMH 2010 and AMH 2020 or C. I. Civil rights and Women's Liberation Movements, Vietnam War, Watergate, the decline of liberalism and the rise of conservatism, end of the Cold War. <i>Occasional.</i></p>	<p><b>AMH 5176</b> CAH-HIST 3(3,0)  <b>Colloquium in Civil War and Reconstruction:</b> PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era. <i>Occasional.</i></p>	<p><b>AML 3614</b> CAH-ENG 3(3,0)  <b>Topics in African-American Literature:</b> PR: Grade of C (2.0) or better required in ENC 1102. Literature by and about African-American culture in the United States. May be repeated for credit. <i>Occasional.</i></p>
<p><b>AMH 4311</b> CAH-HIST 3(3,0)  <b>American Culture I:</b> PR: AMH 2010 and 2020 or C.I. The European Backgrounds: Puritanism: Enlightenment; the Great Awakening; Revolutionary Thought: Romanticism; the Southern Mind and the Yankee Response: Popular Culture and the rise of recreation. <i>Occasional.</i></p>	<p><b>AMH 5219</b> CAH-HIST 3(3,0)  <b>Colloquium in Late 19th Century U.S.:</b> PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of late 19th-century U.S. <i>Occasional.</i></p>	<p><b>AML 3615</b> CAH-ENG 3(3,0)  <b>Harlem, Haiti, and Havana:</b> PR: Grade of C (2.0) or better required in ENC 1102. A comparative approach to African American and Caribbean writers, focusing on literary styles, historical contexts, and themes such as nationalism, popular music, and folk religion. <i>Occasional.</i></p>
<p><b>AMH 4313</b> CAH-HIST 3(3,0)  <b>American Culture II:</b> PR: AMH 2010 and 2020 or C.I. The Darwinian Revolution; revolt of the intellectuals; the media explosion; mass entertainment in mass culture; the loss of community, the nuclear age, and presentism. <i>Occasional.</i></p>	<p><b>AMH 5296</b> CAH-HIST 3(3,0)  <b>Colloquium in 20th Century U.S.:</b> PR: graduate status or senior standing or C.I. Reading and class discussion on selected topics in 20th-century U.S. <i>Occasional.</i></p>	<p><b>AML 3640</b> CAH-ENG 3(3,0)  <b>Native American Literature:</b> PR: Grade of C (2.0) or better required in ENC 1101 and ENC 1102. Native American genres, including traditional oral narratives, ritual and contemporary poetry, autobiography, and the novel. <i>Occasional.</i></p>
<p><b>AMH 4376</b> CAH-HIST 3(3,0)  <b>U.S. Space History:</b> PR: AMH 2010 and AMH 2020, or C.I. Post World War II US rocketry and space travel with focus on the role of Cape Canaveral/Kennedy Space Center. <i>Occasional.</i></p>	<p><b>AMH 5391</b> CAH-HIST 3(3,0)  <b>Colloquium in U.S. Cultural History:</b> PR: graduate status or senior standing or C.I. Students will read and discuss a common or diverse body of the significant literature in the field. <i>Occasional.</i></p>	<p><b>AML 3682</b> CAH-ENG 3(3,0)  <b>Ethnic Literature in America:</b> PR: ENC 1102. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States. <i>Occasional.</i></p>
<p><b>AMH 4510</b> CAH-HIST 3(3,0)  <b>Rise of the United States to World Power, 1776-1914:</b> PR: AMH 2010 and 2020 or C.I. The evolution of basic American policies. American expansion. America's major wars, and the emergence of America as a world power. <i>Occasional.</i></p>	<p><b>AMH 5407</b> CAH-HIST 3(3,0)  <b>Colloquium in American South:</b> PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present. <i>Occasional.</i></p>	<p><b>AML 3682H</b> CAH-ENG 3(3,0)  <b>Honors Ethnic Literature in America:</b> 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. <i>Occasional.</i></p>
<p><b>AMH 4512</b> CAH-HIST 3(3,0)  <b>US Diplomatic History: 1914-1945:</b> PR: AMH 2010 and AMH 2020, or C.I. U.S. diplomacy from World War I through World War II. <i>Occasional.</i></p>	<p><b>AMH 5446</b> CAH-HIST 3(3,0)  <b>Colloquium in U.S. Frontier:</b> PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of frontier history. <i>Occasional.</i></p>	<p><b>AML 4101</b> CAH-ENG 3(3,0)  <b>American Novel:</b> PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Analysis of major American novelists. <i>Occasional.</i></p>
<p><b>AMH 4513</b> CAH-HIST 3(3,0)  <b>United States as a Great Power: 1945-Present:</b> PR: AMH 2020 or C.I. U.S. diplomacy from World War II to the present. <i>Occasional.</i></p>	<p><b>AMH 5515</b> CAH-HIST 3(3,0)  <b>Colloquium in U.S. Diplomatic History:</b> PR: graduate status or senior standing or C.I. A survey of the historical literature of American foreign policy. May be repeated for credit when content is different. <i>Occasional.</i></p>	<p><b>AML 4153</b> CAH-ENG 3(3,0)  <b>American Poetry at Mid-Century:</b> PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Study of major figures from the "Middle Generation": Berryman, Bishop, Jarrell, Lowell, Plath, Rich, Roethke, and others. <i>Occasional.</i></p>
<p><b>AMH 4573</b> CAH-HIST 3(3,0)  <b>Black Militancy in the 20th Century:</b> PR: AMH 2010 and AMH 2020 or C.I. The rise and development of black militant organizations and how these groups have been influenced by hostile foreign entities. <i>Occasional.</i></p>	<p><b>AMH 5566</b> CAH-HIST 3(3,0)  <b>Colloquium: Women in American History:</b> PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of Women in American History from colonial time to the present. <i>Occasional.</i></p>	<p><b>AML 4155</b> CAH-ENG 3(3,0)  <b>Modern American Poetry:</b> PR: Grade of C (2.0) or better required in ENG 3014. Major American poets of the modern (1900-1950) period. <i>Occasional.</i></p>
<p><b>AMH 5116</b> CAH-HIST 3(3,0)  <b>Colloquium in U.S. Colonial History:</b> PR: graduate status or senior standing or C.I. Reading and discussion of the literature on selected topics in colonial American history. <i>Occasional.</i></p>	<p><b>AMH 5937</b> CAH-HIST 3(3,0)  <b>AP American History:</b> PR: graduate status or senior standing or C.I. Participants will enhance their knowledge of weighing evidence and interpretations presented in historical scholarship with respect to the social, cultural, intellectual, economic, and political-diplomatic history of the U.S. <i>Occasional.</i></p>	<p><b>AML 4261</b> CAH-ENG 3(3,0)  <b>Literature of the South:</b> PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014 or C.I. Development of Southern literature from its beginnings in the "Old South" through the post-Civil War and the Southern-Renaissance to the present. Emphasizes reading from Poe, Ransom, Tate, Faulkner, Porter, Warren, O'Connor, Percy, and Styron. <i>Occasional.</i></p>
<p><b>AML 3031</b> CAH-ENG 3(3,0)  <b>American Literature I:</b> PR: ENC 1102. Major American writers from beginning through Whitman. <i>Fall, Spring.</i></p>		

## UCF Courses and Descriptions

<p>AML 4265 CAH-ENG 3(3,0)  <b>Florida Writers:</b> PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. This course will examine writers who have lived in and written about Florida, such as Hemingway, Rawlings, Hurston, and Stevens. <i>Occasional.</i></p>	<p>ANG 5307 COS-ANTHRO 3(3,0)  <b>Peoples and Cultures of Latin America:</b> PR: Graduate standing or C.I. Latin American culture focusing on indigenous history, colonialism, traditional peoples, social change, and modernization. <i>Occasional.</i></p>	<p>ANT 2511H COS-ANTHRO 3(3,0)  <b>Honors The Human Species:</b> PR: Permission of Honors. Human biological variation in an evolutionary perspective. <i>Occasional.</i></p>
<p>AML 4300 CAH-ENG 3(3,0)  <b>Major American Authors:</b> PR: ENG 3014. A comprehensive study of selected major American literary figures. May be repeated for credit when content changes. <i>Fall, Spring.</i></p>	<p>ANG 5341 COS-ANTHRO 3(3,0)  <b>Caribbean Cultures:</b> PR: Graduate standing or C.I. Historical and contemporary overview of the societies and cultures of the Caribbean region, including effects of colonization by the Dutch, Spanish, British, and French. <i>Occasional.</i></p>	<p>ANT 3115 COS-ANTHRO 3(3,0)  <b>Archaeological Method and Theory:</b> A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports. <i>Even Fall.</i></p>
<p>AML 4304 CAH-ENG 3(3,0)  <b>Whitman and His Heirs:</b> PR: ENG 3014. The work of American poet, Walt Whitman (1819-1892), and his influence on modern American poetry. <i>Occasional.</i></p>	<p>ANG 5437 COS-ANTHRO 3(3,0)  <b>Anthropology of Tourism:</b> PR: Graduate standing or C.I. Anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. <i>Occasional.</i></p>	<p>ANT 3142 COS-ANTHRO 3(3,0)  <b>Old World Prehistory:</b> A comparative study of social evolution in Africa, Europe, and Asia from the earliest humans to the beginnings of recorded history. <i>Occasional.</i></p>
<p>AML 4321 CAH-ENG 3(3,0)  <b>Modern American Literature:</b> PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Major writers of modern American literature. <i>Occasional.</i></p>	<p>ANG 5467 COS-ANTHRO 3(3,0)  <b>Nutritional Anthropology:</b> 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 C.I. The biological, social, cultural, psychological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary, ecological. <i>Occasional.</i></p>	<p>ANT 3145 COS-ANTHRO 3(3,0)  <b>Archaeology of Complex Societies:</b> Theoretical perspectives on ancient hierarchies of power. <i>Fall.</i></p>
<p>AML 4630 CAH-ENG 3(3,0)  <b>Latino/Latina Literature:</b> PR: Grade of C (2.0) or better required in ENG 3014. U.S. literature by writers from Latino and Latina backgrounds. <i>Occasional.</i></p>	<p>ANG 5620 COS-ANTHRO 3(3,0)  <b>Language and Culture:</b> PR: Graduate standing in Anthropology or C.I. Language as an integral part of human culture and behavior, focusing on cross cultural issues that affect cultural competency. <i>Occasional.</i></p>	<p>ANT 3158 COS-ANTHRO 3(3,0)  <b>Florida Archaeology:</b> PR: ANT 2000 or ANT 2100 or C.I. Florida prehistory from Paleo-Indian to European contact including archaeological periods, cultural areas, sites, and artifacts. <i>Occasional.</i></p>
<p>AML 5076 CAH-ENG 3(3,0)  <b>American Literature: Colonial to Contemporary:</b> PR: Graduate status or senior standing or C.I. Intended for graduate students and future teachers of America Literature, this course surveys texts produced in America from the colonial period to the present. <i>Occasional.</i></p>	<p>ANG 5622 COS-ANTHRO 3(3,0)  <b>Language, Culture and Pedagogy:</b> PR: Graduate standing or C.I. Linguistic and cultural issues in the learning needs of students from culturally diverse populations. <i>Occasional.</i></p>	<p>ANT 3163 COS-ANTHRO 3(3,0)  <b>Mesoamerican Archaeology:</b> An introduction to the pre-history of Mexico. Guatemala and upper Central America from earliest times through the Spanish conquest. <i>Occasional.</i></p>
<p>AML 5156 CAH-ENG 3(3,0)  <b>Modern American Poetry:</b> PR: Graduate status or senior standing or C.I. Study of trends, modes, major figures (Eliot, Pound, H.D.Lawrence, Stevens, Hart, Crane, Moore, W.C. Williams, etc.) within the Modernist movement in American poetry. <i>Occasional.</i></p>	<p>ANG 5741 COS-ANTHRO 3(3,0)  <b>Mortuary Archaeology:</b> PR: Graduate standing or C.I. Funerary customs and human remains; basic data collection, skeletal analysis, and comparative study of mortuary ritual - ancient and modern. <i>Occasional.</i></p>	<p>ANT 3164 COS-ANTHRO 3(3,0)  <b>Ancient Incas:</b> PR: ANT 2000 or SYG 2000 or ANT 2100 or C.I. The ancient Inca civilization, including examination of pre-Inca cultures and modern Andeans. Uses archaeological, ethnohistorical, historical, and contemporary anthropological sources. <i>Occasional.</i></p>
<p>ANG 5100 COS-ANTHRO 3(3,0)  <b>Archeological Sciences:</b> PR: Graduate standing or C.I. Field and laboratory methods routinely used in archeology and forensic archeology, including instrumentation. <i>Occasional.</i></p>	<p>ANG 5742 COS-ANTHRO 3(3,0)  <b>Problems in Forensic Anthropology:</b> PR: Graduate standing or C.I. Current issues and topics in forensic anthropology. <i>Occasional.</i></p>	<p>ANT 3168 COS-ANTHRO 3(3,0)  <b>Maya Archaeology:</b> An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field. <i>Occasional.</i></p>
<p>ANG 5165 COS-ANTHRO 3(3,0)  <b>Maya Field Research:</b> PR: Graduate standing or C.I. Practical application of method and theory during primary in-field research in the Maya area. <i>Spring.</i></p>	<p>ANT 2000 COS-ANTHRO 3(3,0)  <b>General Anthropology:</b> An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology. <i>Fall, Spring.</i></p>	<p>ANT 3212 COS-ANTHRO 3(3,0)  <b>Peoples of the World:</b> A comparative study of religion, family, politics, philosophy, and other elements of socio-cultural organization of pre-literate societies. <i>Fall, Spring.</i></p>
<p>ANG 5166 COS-ANTHRO 3(3,0)  <b>Problems in Maya Studies:</b> PR: ANG 6168 or C.I. In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies. <i>Occasional.</i></p>	<p>ANT 2000H COS-ANTHRO 3(3,0)  <b>General Anthropology Honors:</b> PR: Permission of Honors. Extensive honors work in the field of anthropology. Expectations, requirements, and standards are greater than for standard General Anthropology. <i>Occasional.</i></p>	<p>ANT 3241 COS-ANTHRO 3(3,0)  <b>Magic, Ritual, and Belief:</b> Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena. <i>Fall, Spring.</i></p>
<p>ANG 5167 COS-ANTHRO 3(3,0)  <b>Maya Hieroglyphs:</b> PR: ANG 6168, graduate status or senior standing, or C.I. The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture. <i>Occasional.</i></p>	<p>ANT 2100 COS-ANTHRO 3(3,0)  <b>Archaeology and the Rise of Human Culture:</b> The evolution of human society from foraging and hunting groups to the earliest cities and states. <i>Fall.</i></p>	<p>ANT 3245 COS-ANTHRO 3(3,0)  <b>Native American Religions:</b> PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples. <i>Occasional.</i></p>
<p>ANG 5228 COS-ANTHRO 3(3,0)  <b>Maya Iconography:</b> PR: ANG 6168 or C.I. Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features. <i>Odd Spring.</i></p>	<p>ANT 2410 COS-ANTHRO 3(3,0)  <b>Cultural Anthropology (Anthropology II):</b> An introduction to human diversity as exemplified among various cultures and ethnic groups. <i>Even Spring.</i></p>	<p>ANT 3262 COS-ANTHRO 3(3,0)  <b>Rural Society:</b> An introduction to rural society in the U.S. and abroad. Problems of third world development in the rural sector. <i>Occasional.</i></p>
<p>ANG 5272 COS-ANTHRO 3(3,0)  <b>Culture, Power and Development:</b> PR: Graduate standing or C.I. Origins and contemporary ramifications of underdevelopment and disempowerment in the world system from an anthropological perspective. <i>Occasional.</i></p>	<p>ANT 2511 COS-ANTHRO 3(3,0)  <b>The Human Species:</b> Human biological variation in an evolutionary perspective. <i>Fall, Spring.</i></p>	<p>ANT 3273 COS-ANTHRO 3(3,0)  <b>Law and Culture:</b> An introduction to law as an organizing force in society, including a study of primitive forms of law and social control. <i>Occasional.</i></p>
		<p>ANT 3302 COS-ANTHRO 3(3,0)  <b>Sex, Gender and Culture:</b> The traditional and changing roles of women and men viewed in a cross-cultural perspective. <i>Fall, Spring.</i></p>

ANT 3311	COS-ANTHRO	3(3,0)	<b>Indians of the Southeastern United States:</b> A study of the social and cultural history of the Indians of the Southeast. <i>Occasional.</i>
ANT 3312	COS-ANTHRO	3(3,0)	<b>Ethnology of North American Indians:</b> A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition. <i>Even Spring.</i>
ANT 3313	COS-ANTHRO	3(3,0)	<b>Indians of North America High Plains:</b> A study of the social and cultural history of the Indians of the North American High Plains. <i>Occasional.</i>
ANT 3314	COS-ANTHRO	3(3,0)	<b>Indians of the Northeast Woodlands:</b> PR: ANT 2000 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American Northeast. <i>Occasional.</i>
ANT 3316	COS-ANTHRO	3(3,0)	<b>Black/Seminole Relations:</b> PR: 2000 level GEP Social Science course or C.I. Relationships forged between peoples of African origin and descent and the Seminole Indians. <i>Occasional.</i>
ANT 3318	COS-ANTHRO	3(3,0)	<b>Indians of the Northwest Coast:</b> PR: ANT 2000 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. <i>Occasional.</i>
ANT 3319	COS-ANTHRO	3(3,0)	<b>Anthropology of Diaspora:</b> PR: ANT 2000 or ANT 2410 or C.I. Comparative study of sociocultural constructions of race and the processes of acculturation and resistance in African Diasporas of the New and Old Worlds. <i>Occasional.</i>
ANT 3320	COS-ANTHRO	3(3,0)	<b>Indians of the Southwest:</b> PR: ANT 2000. Native American culture types of the southwest: Navajo, Pueblo (Zuni, Hopi, Tewa), Apache (Lipan, Mescalero), and Desert Tradition (Pima, Papago, Havasupi). <i>Occasional.</i>
ANT 3330	COS-ANTHRO	3(3,0)	<b>Cultural Ecology of Amazonia:</b> PR: Any 2000 level social science course or C.I. The cultural ecology and adaptive strategies of native Amazonians, including effects of modernization on resource use and cultural survival. <i>Occasional.</i>
ANT 3344	COS-ANTHRO	3(3,0)	<b>Puerto Rican Culture:</b> PR: ANT 2000, or SYG 2000, or PSY 2012, or C.I. Ethnographic study of Puerto Rican culture in Puerto Rico and the U.S. Emphasis on race, class, and gender in twentieth-century Puerto Rican experiences. <i>Occasional.</i>
ANT 3358	COS-ANTHRO	3(3,0)	<b>Life and Death in Ancient Egypt:</b> PR: Any 2000 level Anthropology course. Use of archaeology and physical anthropology to examine the lives and death of both common citizens and royalty in Ancient Egypt (3200 BCE-AD 600). <i>Occasional.</i>
ANT 3363	COS-ANTHRO	3(3,0)	<b>Anthropology of Japan:</b> An examination of Japanese culture and its contemporary behavioral and organizational patterns by drawing upon archaeology, cultural history, linguistics, cultural anthropology, and social organization. <i>Occasional.</i>
ANT 3541	COS-ANTHRO	3(3,0)	<b>Biobehavioral Anthropology:</b> An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments. <i>Spring.</i>
ANT 3550	COS-ANTHRO	3(3,0)	<b>Primatology:</b> PR: ANT 2511 or C.I. Study of species from the Order Primates, including their morphology, ecology, behavior, and geographic distribution. <i>Occasional.</i>
ANT 3640	COS-ANTHRO	3(3,0)	<b>Language and Culture:</b> PR: Sophomore standing. The study of language in a non-western setting; language and behavior; language and perception. <i>Spring.</i>
ANT 3701	COS-ANTHRO	3(3,0)	<b>Applied Anthropology:</b> PR: ANT 2000 or C.I. Application of anthropological methods to current human problems such as the environment, migration, globalization and health. <i>Occasional.</i>
ANT 3949	COS-ANTHRO	0(0,8)	<b>Cooperative Education in Anthropology:</b> PR: Departmental permission required before registering. Cooperative education experience in anthropology. May be repeated. Graded S/U. <i>Occasional.</i>
ANT 4034	COS-ANTHRO	3(3,0)	<b>History of Anthropological Thought:</b> The exploration of the intellectual foundations of modern anthropology. <i>Spring.</i>
ANT 4101	COS-ANTHRO	3(3,0)	<b>Archaeological Sciences:</b> PR: ANT 2511, or ANT 2100, or C.I. Methods and instrumentation routinely used in archaeology and forensic archaeology. <i>Spring.</i>
ANT 4144	COS-ANTHRO	3(3,0)	<b>Prehistory of North America:</b> PR: Any lower level social science. The rise of North American Native culture from the earliest evidence of human occupation in the New World: e.g., the Folsom, Clovis, Sandia, etc., to the time of contact with European cultures. <i>Occasional.</i>
ANT 4153	COS-ANTHRO	3(3,0)	<b>North American Archaeology:</b> 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. <i>Occasional.</i>
ANT 4180C	COS-ANTHRO	3(1,4)	<b>Seminar in Laboratory Analysis:</b> The processing of archaeological finds from excavation through publication. May be repeated for credit. <i>Spring.</i>
ANT 4184	COS-ANTHRO	3(3,0)	<b>Mortuary Archaeology:</b> PR: ANT 2000, or ANT 2100, or ANT 2511 or C.I. Archaeological interpretations of death; basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern. <i>Occasional.</i>
ANT 4266	COS-ANTHRO	3(3,0)	<b>Economic Anthropology: Production, Consumption, and Exchange:</b> PR: ANT 2000, ECO 2013, PSY 2012, or SYG 2000. Issues, methods, and concepts of economic anthropology. <i>Occasional.</i>
ANT 4308	COS-ANTHRO	3(3,0)	<b>Gender Issues in Latin America:</b> 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. <i>Occasional.</i>
ANT 4332	COS-ANTHRO	3(3,0)	<b>People and Cultures of Latin America:</b> PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. History and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization. <i>Odd Fall, Spring.</i>
ANT 4340	COS-ANTHRO	3(3,0)	<b>Caribbean Cultures:</b> PR: ANT 2000, ANT 2410, SYG 2000, PSY 2012, or C.I. Comparative study of peoples and cultures of the Anglophone, Francophone, Hispanophone, and Caribbean. <i>Occasional.</i>
ANT 4352	COS-ANTHRO	3(3,0)	<b>African Societies and Cultures:</b> 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. <i>Occasional.</i>
ANT 4354	COS-ANTHRO	3(3,0)	<b>Postcolonial Africa:</b> PR: ANT 2000 or SYG 2000 or C.I. Cultural change and continuity in contemporary Africa, ethnography of postcolonial social and cultural issues including globalization, health, economics, peace and stability. <i>Occasional.</i>
ANT 4438	COS-ANTHRO	3(3,0)	<b>Anthropology of Tourism:</b> PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. Social theory of tourism: anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. <i>Occasional.</i>
ANT 4462	COS-ANTHRO	3(3,0)	<b>Medical Anthropology:</b> PR: ANT 2000 or ANT 2511 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications. <i>Occasional.</i>
ANT 4467	COS-ANTHRO	3(3,0)	<b>Nutritional Anthropology:</b> PR: One 2000 level course in social sciences and one 2000 level course in biological sciences or C.I. Psychological, biological, social, cultural, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, ecological and evolutionary. <i>Occasional.</i>
ANT 4516	COS-ANTHRO	3(3,0)	<b>Human Biological Diversity:</b> PR: ANT 2511 or BSC 2010C or C.I. Human biological variation and adaptation. <i>Occasional.</i>
ANT 4521C	COS-ANTHRO	3(3,0)	<b>Forensic Anthropology:</b> PR: ANT 2511 or C.I. The study of human skeletal remains in relation to a legal context. <i>Occasional.</i>
ANT 4525C	COS-ANTHRO	4(3,1)	<b>Human Osteology:</b> PR: ANT 2511. The scientific study of the human skeleton and the methodology and techniques involved in the anthropological assessment of skeletal remains. <i>Fall.</i>
ANT 4528C	COS-ANTHRO	5(3,3)	<b>Advanced Forensic Anthropology:</b> PR: ANT 4521C. Advanced laboratory methods in forensic anthropology, including skeletal analysis and the application of archaeological techniques to the recovery of human remains. <i>Even Spring.</i>
ANT 4586	COS-ANTHRO	3(3,0)	<b>Human Origins:</b> PR: ANT 2511. The fossil evidence for human evolution from Miocene hominoids through the australopithecines and the earliest members of the genus Homo. <i>Spring.</i>
ANT 4702	COS-ANTHRO	3(3,0)	<b>Culture, Power and Development:</b> PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. Anthropological perspective on origins and contemporary ramifications of underdevelopment and disempowerment in the world system. <i>Occasional.</i>

## UCF Courses and Descriptions

**ANT 4802 COS-ANTHRO 3(3,0)**  
**Ethnographic Field Methods:** PR: ANT 2000, ANT 2410, SYG 2000, PSY 2012, or C.I. Procedures and principles of ethnographic research methods. *Occasional.*

**ANT 4824 COS-ANTHRO 9(9,0)**  
**Advanced Archaeological Fieldwork:** PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork. *Spring.*

**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. *Occasional.*

**ARA 1120 CAH-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. *Fall.*

**ARA 1120H CAH-LANG 4(4,1)**  
**Honors Elementary Arabic Language and Civilization I:** PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level content. *Occasional.*

**ARA 1121 CAH-LANG 4(4,1)**  
**Elementary Arabic Language and Civilization II:** PR: ARA 1120 or C.I. Continuation of ARA 1120. *Spring.*

**ARA 1121H CAH-LANG 4(4,1)**  
**Honors Elementary Arabic Language and Civilization II:** PR: Permission of Honors. Continuation of ARA 1120H. Honors level content. *Occasional.*

**ARA 2200 CAH-LANG 3(3,1)**  
**Intermediate Arabic Language and Civilization I:** PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level. *Occasional.*

**ARE 2011 ED-CFCS 3(3,0)**  
**Early Childhood Art and Creativity:** An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented. *Occasional.* M&S fee: \$5.00

**ARE 3944 CAH-ART 3(2,3)**  
**Community Arts Practicum:** PR: C.I. A supervised experience for students to facilitate art programming in a variety of community settings. *Occasional.*

**ARE 4250 ED-TLP 3(3,0)**  
**Art for Exceptionalities:** PR: EDG 4323 and at least junior standing or C.I. Concepts, principles, and methods of integrating art processes into the education of students with physical, emotional, and mental disabilities. *Occasional.*

**ARE 4262 CAH-ART 3(3,0)**  
**Methods in Art Administration:** PR: ARH 3820. Theories and methodologies for designing, implementing and administering art programs for a variety of populations. *Occasional.*

**ARE 4313 ED-TLP 3(2,1)**  
**Art in the Elementary School:** PR: Junior standing or C.I. Basic principles, purposes, scope and sequence; organization for instruction; evaluation of activities; selected art experiences. *Fall, Spring.* M&S fee: \$5.00

**ARE 4351 ED-TLP 3(2,1)**  
**Teaching Art in the Elementary School:** PR: EDF 4214 and EDG 4323. Transition from university art studio practices to public school teaching of art. Organizing, designing and analyzing art experiences, activities and classroom environments for the elementary school classroom. *Fall.* M&S fee: \$5.00

**ARE 4352 ED-TLP 3(2,1)**  
**Teaching Art in the Secondary School:** PR: EDF 4214, and EDG 4323. Transition from university art studio practices to High School Teaching of art. Organizing, designing and analyzing art experiences and activities appropriate for junior high and high school children. Examination of teaching methodology relative to the high school and junior high school settings. *Spring.* M&S fee: \$5.00

**ARE 4356 ED-TLP 3(3,1)**  
**Teaching Art Appreciation & Criticism in the Classroom:** PR: ARH 2050 and ARH 2051. An examination of art appreciation programs and concepts toward planning curriculum for the study of art history, popular art, art criticism, and aesthetics for specific educational settings. *Fall.* M&S fee: \$5.00

**ARE 4453 ED-TLP 3(3,0)**  
**Studio Experiences in Art Education:** PR: Completion of all Art Education Program Prerequisites or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. *Spring.* M&S fee: \$5.00

**ARE 4945 CAH-ART 12(0,12)**  
**Community Arts Internship:** PR: C.I. An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience. *Occasional.*

**ARE 5251 ED-TLP 3(2,1)**  
**Art for Exceptionalities:** Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped. *Occasional.*

**ARE 5255 ED-TLP 3(2,1)**  
**Arts in Recreation:** Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas. *Occasional.*

**ARE 5359 ED-TLP 4(4,0)**  
**Teaching Art K-12:** PR: Admission to M.A. in Art Education, graduate standing or C.I. Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12. *Occasional.* M&S fee: \$5.00

**ARE 5454 ED-TLP 3(3,0)**  
**Studio Experiences in Art Education:** PR: Graduate admission or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. *Spring.* M&S fee: \$5.00

**ARE 5648 ED-TLP 3(3,0)**  
**Contemporary Visual Arts Education:** PR: ARE 4443 or C.I. Continued study of current programs and innovations in public school Visual Arts Programs. *Occasional.*

**ARH 2050 CAH-ART 3(3,0)**  
**History of Western Art I:** Painting, sculpture and architecture from the Prehistoric Era through the Renaissance. *Occasional.*

**ARH 2050H CAH-ART 3(3,0)**  
**Honors History of Western Art I:** PR: Permission of Honors. Painting, sculpture and architecture from the Prehistoric Era through the Renaissance, with honors content. *Occasional.*

**ARH 2051 CAH-ART 3(3,0)**  
**History of Western Art II:** Painting, sculpture and architecture from the Baroque through the 20th century. *Fall, Spring.*

**ARH 2051H CAH-ART 3(3,0)**  
**Honors History of Western Art II:** PR: Permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level content. *Occasional.*

**ARH 2500 CAH-ART 3(3,0)**  
**History of Non-Western Art:** Major visual arts in various non-Western cultures. *Fall, Spring.*

**ARH 3454 CAH-ART 3(3,0)**  
**Happenings and Conceptual Art:** PR: Junior Standing or C.I. Aesthetic and social significance of "Total Art" in its attempt to break down customary distinctions between life and art. *Occasional.*

**ARH 3471 CAH-ART 3(3,0)**  
**Art in the Last 25 Years:** PR: ARH 2050 and ARH 2051 or C.I. A seminar for upper-level art students to examine current trends in the visual arts. *Occasional.*

**ARH 3520 CAH-ART 3(3,0)**  
**African Art:** PR: Junior status, ARH 2050, or C.I. Art objects produced in Africa and African sites; with some consideration of arts of the African Diaspora. *Occasional.*

**ARH 3570 CAH-ART 3(3,0)**  
**Ceramics of the Muslim World:** PR: ARH 2050 or C.I. Islamic Art and the stylistic and technical characteristics of the period, in contrast to pre-Islamic or other civilizations such as the ancient Greeks, Egyptians, Babylonians, and Chinese. *Occasional.*

**ARH 3610 CAH-ART 3(3,0)**  
**American Art:** PR: ARH 2050 and ARH 2051 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. *Occasional.*

**ARH 3631 CAH-AAS 3(3,0)**  
**African-American Art:** PR: ENC 1102 or C.I. Historical survey of art produced by working artists of African heritage and representations of African-American life by these and other artists. *Occasional.*

**ARH 3632H CAH-ART 3(3,0)**  
**Honors: African American Arts Seminar:** PR: Permission of Honors. An exploration of traditional, academic, and contemporary urban African American visual arts. *Occasional.*

**ARH 3670 CAH-ART 3(3,0)**  
**20th Century Latin American Art:** PR: ARH 2050 and ARH 2051 or C.I. Art of the modern era (1820 to 1980) in the Caribbean and South America; issues and characteristics of art as they reflect the cultural evolution of Latin America. *Occasional.*

**ARH 3673 CAH-ART 3(3,0)**  
**Modern Art of Mexico:** PR: ARH 2050 or ARH 2051 or C.I. Modern art of Mexico from the Mexican Academy post-independence to the 1980's. *Occasional.*

## UCF Courses and Descriptions

<p><b>ARH 3683</b> CAH-ART 3(3,0)  <b>Southern Folk Arts:</b> 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. <i>Occasional.</i></p>	<p><b>ARH 4800</b> CAH-ART 3(3,0)  <b>Theory and Criticism of the Visual Arts:</b> 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. <i>Occasional.</i></p>	<p><b>ART 2400C</b> CAH-ART 3(2,4)  <b>Beginning Printmaking:</b> Basic elements and techniques of printmaking covered. Relief, intaglio, and lithography. Assignments include practical application of printmaking as drawing tool. <i>Occasional.</i></p>
<p><b>ARH 3710</b> CAH-ART 3(3,0)  <b>History of Photography I:</b> 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. <i>Occasional.</i></p>	<p><b>ARH 4892</b> CAH-ART 3(3,0)  <b>Women in Art:</b> 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. <i>Occasional.</i></p>	<p><b>ART 2500C</b> CAH-ART 3(2,4)  <b>Beginning Painting:</b> PR: ART 2300C, ART 2201C, or C.I. Methods and materials of the painter. Introduction to the problems in painting. <i>Occasional.</i> M&amp;S fee: \$15.00</p>
<p><b>ARH 3711</b> CAH-ART 3(3,0)  <b>History of Photography II:</b> 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. <i>Occasional.</i></p>	<p><b>ARH 5897</b> CAH-ART 3(3,0)  <b>Advanced Seminar in Art History:</b> PR: ARH 2050 and ARH 2051 or C.I. Research methods on various topics including: major artist, monument, cultural period or theme. <i>Occasional.</i></p>	<p><b>ART 2701C</b> CAH-ART 3(2,4)  <b>Sculpture:</b> PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2300C, ART 2301C. <i>Odd Fall.</i> M&amp;S fee: \$20.00</p>
<p><b>ARH 3720</b> CAH-ART 3(3,0)  <b>History of Prints:</b> PR: ARH 2050 and ARH 2051 or C.I. History of printmaking in the Western world, surveying works by the "great printmakers." <i>Occasional.</i></p>	<p><b>ART 2130C</b> CAH-ART 3(3,0)  <b>Fibers &amp; Fabrics:</b> Design and production training in surface design, floor loom weaving and fiber sculpture. <i>Occasional.</i> M&amp;S fee: \$5.00</p>	<p><b>ART 2754C</b> CAH-ART 3(2,4)  <b>Beginning Ceramics:</b> PR: ART 2201C or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery. <i>Fall, Odd Spring.</i> M&amp;S fee: \$35.00</p>
<p><b>ARH 3820</b> CAH-ART 3(3,0)  <b>Visual Arts Administration Vitas:</b> PR: Junior Standing or C.I. Grant applications; Personnel; copyright laws; museum practices, etc. <i>Occasional.</i></p>	<p><b>ART 2160C</b> ED-TLP 3(2,3)  <b>Metals, Woods, Leathers and Stones:</b> Processes and techniques of production. <i>Occasional.</i></p>	<p><b>ART 2820</b> CAH-ART 3(3,0)  <b>Art as Interface:</b> An overview of art department specializations, and selected historical and theoretical information influencing the art curriculum. Examination of aesthetic characteristics shared by the various disciplines and how knowledge of these data is used by the profession to share information with the community. <i>Fall, Spring.</i></p>
<p><b>ARH 4170</b> CAH-ART 3(3,0)  <b>Greek &amp; Roman Art:</b> 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. <i>Occasional.</i></p>	<p><b>ART 2201C</b> CAH-ART 3(2,4)  <b>Design Fundamentals-Two Dimensional:</b> PR: ART 2820. Priority given to students whose major requires this course. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>ART 2820H</b> CAH-ART 3(3,0)  <b>Honors Art as Interface:</b> PR: Consent of Honors. An overview of Art department specializations, and selected historical and theoretical information influencing the art curriculum. Aesthetic characteristics shared among the disciplines and their use by the profession. With Honors content. <i>Occasional.</i></p>
<p><b>ARH 4200</b> CAH-ART 3(3,0)  <b>Medieval Art:</b> PR: ARH 2050 and ARH 2051. Medieval Art from the 6th through 14th centuries, including painting, architecture, sculpture and illuminated manuscripts. <i>Occasional.</i></p>	<p><b>ART 2201H</b> CAH-ART 3(2,4)  <b>Honors Design Fundamentals-Two Dimensional:</b> PR: ART 2820. 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. <i>Occasional.</i></p>	<p><b>ART 3161</b> CAH-ART 3(3,0)  <b>Mixed Media:</b> PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Concepts and techniques involving the creation of art objects by integrating painting, sculpture, drawing, design, and art history. <i>Occasional.</i></p>
<p><b>ARH 4310</b> CAH-ART 3(3,0)  <b>Italian Renaissance Art:</b> PR: ARH 2050 and ARH 2051 or C.I. Italian Art and architecture from 1300 to 1600. <i>Occasional.</i></p>	<p><b>ART 2203C</b> CAH-ART 3(2,4)  <b>Design Fundamentals-Three Dimensional:</b> PR: ART 2820 or C.I. Priority given to students whose major requires this course. Basic three-dimensional design using the various sculptural media. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>ART 3332C</b> CAH-ART 3(2,4)  <b>Intermediate Drawing:</b> PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Intermediate problems in drawing, with emphasis on the human form. <i>Fall, Spring.</i></p>
<p><b>ARH 4350</b> CAH-ART 3(3,0)  <b>Baroque Art:</b> PR: ARH 2050 and ARH 2051 or C.I. A study of European Art in the 17th and 18th centuries. <i>Occasional.</i></p>	<p><b>ART 2300C</b> CAH-ART 3(2,4)  <b>Drawing Fundamentals I:</b> PR: ART 2820 or C.I. Priority given to students whose major requires this course. Drawing as a means of formal organization. Introduction to problems in drawing methods and media. Emphasis on description techniques. <i>Fall, Spring.</i> M&amp;S fee: \$10.00</p>	<p><b>ART 3433C</b> CAH-ART 3(2,4)  <b>Screenprinting:</b> PR: ART 2201C, ART 2300C, ART 2400C. Techniques of waterbase screenprinting, including digital/photo processes and practical applications of screenprinting as a means for image making. <i>Occasional.</i></p>
<p><b>ARH 4430</b> CAH-ART 3(3,0)  <b>19th Century Art:</b> 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. <i>Occasional.</i></p>	<p><b>ART 2300H</b> CAH-ART 3(2,4)  <b>Honors Drawing Fundamentals I:</b> PR: ART 2820 and Consent of Honors. 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. With Honors content. <i>Occasional.</i> M&amp;S fee: \$10.00</p>	<p><b>ART 3504C</b> CAH-ART 3(2,4)  <b>Intermediate Painting:</b> PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Reinforces and extends methods and materials content of ART 2500C, and deals with issues of figurative painting. <i>Fall, Even Spring.</i> M&amp;S fee: \$15.00</p>
<p><b>ARH 4450</b> CAH-ART 3(3,0)  <b>20th Century Art:</b> PR: ARH 2050 and ARH 2051 or C.I. A survey of the art from Fauvism, Futurism, Cubism to the art of the present. <i>Occasional.</i></p>	<p><b>ART 2301C</b> CAH-ART 3(2,4)  <b>Drawing Fundamentals II:</b> PR: ART 2300C and ART 2820 or C.I. Priority given to students whose major requires this course. Continuation of ART 2300C. <i>Fall, Spring.</i> M&amp;S fee: \$10.00</p>	<p><b>ART 3616C</b> CAH-ART 3(3,0)  <b>Animation Production Methods:</b> PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit. <i>Occasional.</i> M&amp;S fee: \$15.00</p>
<p><b>ARH 4545</b> CAH-ART 3(3,0)  <b>Art of India:</b> PR: Junior Standing or C.I. Art and architecture of India from prehistoric times through the Gupta, Rajput, and Muslim periods. <i>Occasional.</i></p>	<p><b>ART 2394</b> CAH-ART 3(3,0)  <b>Drawing: Computer as a Medium:</b> Object drawing, using the computer and drawing stylus as a medium. <i>Occasional.</i></p>	<p><b>ART 3618C</b> CAH-ART 3(3,0)  <b>Post-Production Design:</b> PR: Accepted into Animation program. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop software. <i>Occasional.</i></p>
<p><b>ARH 4655</b> CAH-ART 3(3,0)  <b>Meso American Art:</b> PR: Junior Standing or C.I. A survey of the art of Mexico and Central America, from the Pre-Columbia, through the Spanish Colonial, to the 20th century. <i>Occasional.</i></p>		

## UCF Courses and Descriptions

- ART 3643C** CAH-ART 3(3,0)  
**Digital Effects & Compositing:** PR: Animation major. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop or comparable software. *Fall, Spring.* M&S fee: \$35.00
- ART 3760C** CAH-ART 3(2,4)  
**Intermediate Ceramics:** PR: ART 2201C, ART 2203C, ART 2300C and ART 2301C. Continuation of ceramic processes. *Fall, Spring.* M&S fee: \$35.00
- ART 3764C** CAH-ART 3(2,4)  
**Ceramic Handbuilding I:** PR: Junior standing. Application of a variety of ceramic handbuilding procedures, including design, glaze application and firing process. *Occasional.* M&S fee: \$35.00
- ART 3833C** CAH-ART 3(4,2)  
**Processes and Ideas in Art:** PR: Junior Standing. This course emphasizes the development of individual creativity and the generation of new insights concerning artistic expression. These "formative activities" must be manifested by students in the form of small sculptures and/or other forms of creativity. *Occasional.*
- ART 3950** CAH-ART 0(0,0)  
**Portfolio Review:** PR: C.I. Review of relevant artistic works in a student's portfolio. Graded S/U. *Fall, Spring.*
- ART 4132C** CAH-ART 3(2,4)  
**Advanced Fiber And Fabrics:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2130C, and a satisfactory portfolio review or C.I. Textile design and production, including non-loom weaving processes. May be repeated for credit. *Occasional.* M&S fee: \$5.00
- ART 4173** CAH-ART 3(3,0)  
**The Artist Book:** PR: ART 2201C and ART 2203C. Course will explore the definition of book from traditional hand-made to contemporary artist book. Students will redefine its elements, structure and content and be exposed to binding and printing methods in book production. *Fall, Even Spring.* M&S fee: \$25.00
- ART 4226C** CAH-ART 3(3,3)  
**Post Production for Animators:** PR: FIL 3287C. Concepts and tools for finishing computer and traditional animations on film and video. Emphasis on compositing tools to combine elements in a finished animation. *Occasional.*
- ART 4320C** CAH-ART 3(2,4)  
**Advanced Drawing:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3332C. May be repeated for credit. *Fall, Spring.*
- ART 4402C** CAH-ART 3(2,4)  
**Advanced Printmaking:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Advanced process in printmaking. May be repeated for credit. *Even Fall, Spring.* M&S fee: \$30.00
- ART 4505C** CAH-ART 3(2,4)  
**Advanced Painting:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit. *Fall, Spring.* M&S fee: \$15.00
- ART 4634C** CAH-ART 3(3,1)  
**Web Art:** PR: ART 2820 or C.I. The Web as a medium for art. *Occasional.*
- ART 4710C** CAH-ART 3(2,4)  
**Advanced Sculpture:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit. *Fall, Spring.* M&S fee: \$30.00
- ART 4765C** CAH-ART 3(2,4)  
**Ceramic Handbuilding II:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2754C, and a satisfactory portfolio review or C.I. Technical skills in manipulating form, function, volume, color and surface texture. *Occasional.* M&S fee: \$35.00
- ART 4780C** CAH-ART 3(2,4)  
**Kiln Design and Building:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, ART 4783C, and a satisfactory portfolio review or C.I. The design and construction of kilns, use of refractory materials, and the theory of efficient fuel combustion. *Occasional.* M&S fee: \$35.00
- ART 4783C** CAH-ART 3(2,4)  
**Advanced Ceramics:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. *Fall, Spring.* M&S fee: \$34.99
- ART 4786C** CAH-ART 3(2,4)  
**Ceramic Raw Material:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. An in-depth understanding of the singular and diverse properties of clay and glaze materials. *Occasional.* M&S fee: \$35.00
- ART 4935** CAH-ART 3(3,1)  
**BFA Exhibit/Seminar:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, must complete Studio course for BFA, and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. Exhibition. *Spring.* M&S fee: \$15.00
- ART 4945** CAH-ART 6(0,6)  
**C.R.E.A.T. Project:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4288C, and a satisfactory portfolio review or C.I. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry. *Occasional.*
- ART 4954** CAH-ART 3(3,0)  
**Scotland Study Abroad:** PR: ART 2820, ART 2201C, ART 2301C or C.I. Study abroad in Edinburgh, Scotland. May be repeated for credit. *Occasional.*
- ART 4971** CAH-ART 3(3,0)  
**Senior Thesis:** PR: Senior Standing, Art major, C.I. A capstone thesis for Art Animation majors. May be repeated for credit. *Occasional.*
- ART 5109C** CAH-ART 3(2,4)  
**Multi-Cultural Crafts Design:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, graduate status or senior standing, or C.I. The content of this course will include an appreciation for and the production of Western and Non-Western art forms. *Occasional.*
- ART 5280C** CAH-ART 3(3,3)  
**Serial Content & Classic Form I:** PR: Admission to MFA. Studio course exploring serial imaging history, pictographs, alphabet development, typographic design, and the computer as sequenced design concepts and tools. *Fall.*
- ART 5284** CAH-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. *Fall.*
- ART 5670C** CAH-ART 3(2,4)  
**Digital Illustration:** CR: ART 6683C. Methods and media effects usually associated with traditional illustration in a digital platform. *Spring.*
- ART 5694** CAH-ART 3(3,0)  
**Crosscultural Electronic Art & Design:** PR: Admission to MFA. Explores digital/electronic art and technology from mid 20th century to present. Explores key electronic artists and issues of the "ars electronica" into the present. *Spring.*
- ART 5695** CAH-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. *Spring.*
- ART 5696** CAH-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. *Spring.*
- ART 5698** CAH-ART 3(3,0)  
**Concourse I:** PR: ART 5910 and ART 5280C and ART 5694, or C.I. Digital reproduction of studio works. *Fall.*
- ART 5745** CAH-ART 3(3,0)  
**Physical and Virtual Sculpture:** PR: Acceptance to MFA in Studio Art and the Computer or C.I. A course exploring historical (tactile) and contemporary (virtual) approaches to the creation of 3D sculptural objects. *Occasional.*
- ART 5811C** CAH-ART 3(3,1)  
**The Professional Practice of Art:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C- (no graduate level prerequisite), graduate status or senior standing, or C.I. Seminar class on political information pertaining to professional practices in the art world. Overview of inventory processing, accounting, and the marketing of art. *Fall.* M&S fee: \$15.00
- ART 5910** CAH-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). *Fall, Spring.*
- ART 5934** CAH-ART 3(3,0)  
**Concepts of Contemporary Art:** PR: Graduate standing or C.I. Current issues in contemporary international art. Graded S/U. *Occasional.*
- ART 5941** CAH-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. *Occasional.*
- ASH 3222** CAH-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. *Occasional.*
- ASH 3223** CAH-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. *Occasional.*

**ASH 4304 CAH-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. *Occasional.*

**ASH 4402 CAH-HIST 3(3,0)**  
**History of Chinese Civilization:** PR: EUH 2000 and EUH 2001, or WOH 2012 and WOH 2022. Chinese history from its pre-historical genesis until the 18th century. *Occasional.*

**ASH 4404 CAH-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. *Occasional.*

**ASH 4442 CAH-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. *Occasional.*

**ASH 5227 CAH-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. *Occasional.*

**ASH 5408 CAH-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. *Occasional.*

**AST 2002 COS-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. *Fall, Spring.*

**AST 2002H COS-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. *Occasional.*

**AST 2002L COS-PHYS 1(0,3)**  
**Astronomy Lab:** CR: AST 2002. Laboratory experiments covering selected topics in astronomy related to AST 2002. *Occasional.* M&S fee: \$9.00

**AST 3110 COS-PHYS 3(3,0)**  
**Solar System Astronomy:** PR: AST 2002, PHY 2053C. Interdisciplinary approach to the dynamics of the Solar System through application of Physics, Atmospheric Science, Chemistry and Geology. *Even Fall.*

**AST 3211 COS-PHYS 3(3,0)**  
**Stellar Astrophysics:** PR: AST 2002, PHY 2053C. The physics and dynamics of stars, including star formation and stellar evolution. *Occasional.*

**AST 3402 COS-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. *Odd Fall.*

**AST 3722C COS-PHYS 3(3,0)**  
**Techniques of Observational Astronomy:** PR: AST 2002, PHY 2048. Fundamental principles and techniques used in planning, reducing, and analyzing modern astronomical observations. Numerical treatment of photometry, spectroscopy, and CCD images. *Even Spring.*

**AST 4142 COS-PHYS 3(3,0)**  
**Asteroids, Comets, and Meteorites:** PR: AST 2002 or AST 3211. Asteroids, comets, and meteorites and their role in the origin and evolution of our solar system. *Occasional.*

**AST 4501 COS-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. *Occasional.*

**AST 5165 COS-PHYS 3(3,0)**  
**Planetary Atmospheres:** PR: Mechanics PHY 3220 and Modern Physics 3101, graduate status or senior standing, or C.I. This course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets. *Occasional.*

**BCH 4053 COS-CHEM 3(3,0)**  
**Biochemistry I:** PR: CHM 2211. A consideration of proteins, carbohydrates, nucleic acids, enzymes and their effect on biochemical systems, and inter-relationship of intermediary metabolism. *Fall, Spring.*

**BCH 4053H COS-CHEM 3(3,0)**  
**Honors Biochemistry I:** PR: CHM 2211 and consent of Honors. Proteins, carbohydrates, nucleic acids, enzymes and their effect on biochemical systems, and inter-relationship of intermediary metabolism. With Honors content. *Occasional.*

**BCH 4054 COS-CHEM 3(3,0)**  
**Biochemistry II:** PR: BCH 4053. Continuation of BCH 4053. *Spring.*

**BCH 4103L COS-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. *Spring.* M&S fee: \$45.00

**BOT 3152C COS-BIOL 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. *Occasional.*

**BOT 3800 COS-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. *Spring.*

**BOT 3820C COS-BIOL 3(2,1)**  
**Plants and the Urban Environment:** PR: Junior standing or C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. For non-majors only. *Occasional.* M&S fee: \$15.00

**BOT 4156C COS-BIOL 4(2,6)**  
**Florida Wildflowers:** PR: BSC 2010C, BSC 2011C, BOT 4303C, or C.I. The biology of wildflowers of Florida, their identification, taxonomy, distribution, flowering times, and roles played in the environment and welfare of man. *Occasional.* M&S fee: \$15.00

**BOT 4223C COS-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. *Occasional.* M&S fee: \$15.00

**BOT 4303C COS-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. *Occasional.* M&S fee: \$40.00

**BOT 4503 COS-BIOL 3(3,0)**  
**Plant Physiology:** PR: PCB 3023 or C.I. A Study of mechanisms used by plants to cope with the environment. *Occasional.*

**BOT 4503L COS-BIOL 1(0,3)**  
**Plant Physiology laboratory:** CR: BOT 4503. The laboratory to accompany BOT 4503. *Occasional.* M&S fee: \$15.00

**BOT 4686C COS-BIOL 4(3,3)**  
**Conservation and Management of Native Plants:** PR: BOT 4713C, PCB 3044 and/or BOT 4503 or C.I. Identification, conservation, propagation and management of Florida rare, endangered, indicator or reclamation species. *Occasional.*

**BOT 4713C COS-BIOL 5(3,6)**  
**Plant Taxonomy:** PR: BSC 2010C and BSC 2011C, or C.I. Systematic classification and identification of vascular plants, with emphasis on the flora of peninsular Florida. *Occasional.* M&S fee: \$45.00

**BOT 5485C COS-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. *Occasional.* M&S fee: \$15.00

**BOT 5623C COS-BIOL 4(3,3)**  
**Plant Geography and Ecology:** PR: PCB 3044, 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. *Occasional.* M&S fee: \$15.00

**BSC 1005 COS-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. *Fall, Spring.*

**BSC 1005H COS-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. *Occasional.*

**BSC 1005L COS-BIOL 1(0,2)**  
**Biological Principles Laboratory:** CR: BSC 1005. The laboratory to accompany BSC 1005. *Fall, Spring.* M&S fee: \$15.00

**BSC 1050 COS-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. *Occasional.*

**BSC 1050H COS-BIOL 3(1,4)**  
**Biology and Environment-Honors:** PR: Permission of Honors. Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Field trips required. Designed for Honors non-majors. *Occasional.*

## UCF Courses and Descriptions

<p><b>BSC 1050L</b>      <b>COS-BIOL</b>      <b>1(0,2)</b>  <b>Biology and Environment Laboratory:</b> CR: BSC 1050. The laboratory to accompany BSC 1050. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>BSC 4312C</b>      <b>COS-BIOL</b>      <b>4(3,3)</b>  <b>Marine Biology:</b> PR: PCB 3044 and STA 2023. The biological, ecological, physical and chemical aspects of the world's oceans. <i>Even Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>BUL 5810</b>      <b>BA-ACCT</b>      <b>3(3,0)</b>  <b>Legal and Social Environment of Business:</b> 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. <i>Occasional.</i></p>
<p><b>BSC 2010C</b>      <b>COS-BIOL</b>      <b>4(3,2)</b>  <b>Biology I:</b> PR: High school biology or C.I. Open only to students whose major requires this specific course. Cellular and chemical basis of life, genetics, and the theory of evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>BSC 4422L</b>      <b>COS-BIOL</b>      <b>1-4(0,3-12)</b>  <b>Biology Laboratory Techniques:</b> PR: PCB 3044, CHM 2210, or C.I. Individual and small group instruction in current laboratory techniques beyond the scope of typical Biology laboratories. May be repeated for credit, up to a maximum of 4 credits total. Graded S/U. <i>Occasional.</i></p>	<p><b>CAP 4453</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Robot Vision:</b> PR: COP 3530C and MAC 2312, or C.I. Pin hole camera and eye, perspective and orthographic projections, the processing of edges, regions, motion, shading, texture, object; robot arm usage. <i>Fall, Spring.</i></p>
<p><b>BSC 2010H</b>      <b>COS-BIOL</b>      <b>4(3,3)</b>  <b>General Biology Honors:</b> 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. <i>Fall, Spring.</i> M&amp;S fee: \$24.00</p>	<p><b>BSC 4454</b>      <b>COS-BIOL</b>      <b>2(0,2)</b>  <b>Research in Animal Physiology:</b> PR: PCB 4723. Development of research skills in animal physiology through hands-on experimental design, data collection, use of data analysis software, and communication of results. <i>Occasional.</i></p>	<p><b>CAP 4630</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Artificial Intelligence:</b> PR: COP 3503C and COT 3960. Current methods in AI: knowledge-based systems, representation, inference, planning, natural language. Programming in Lisp or Prolog required. <i>Fall.</i></p>
<p><b>BSC 2011C</b>      <b>COS-BIOL</b>      <b>4(3,3)</b>  <b>Biology II:</b> PR: BSC 2010C or C.I. Open only to students whose major requires this specific course. Continuation of BSC 2010C. Organismal anatomy and physiology as it relates to biodiversity, ecology and evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. <i>Fall, Spring.</i> M&amp;S fee: \$20.00</p>	<p><b>BSC 4937</b>      <b>COS-BIOL</b>      <b>2(0,2)</b>  <b>Instructional Experiences in Undergraduate Biology:</b> PR: PCB 3063, Biology major with 80 semester hours and 3.0 gpa. Preparation of undergraduate students to more effectively learn biological concepts by facilitating learning in variety of university biology labs. May be repeated for credit. Graded S/U. <i>Fall, Spring.</i></p>	<p><b>CAP 4720</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Computer Graphics:</b> PR: COP 3503C and COT 3960 and MAC 2147 or equivalent. Math for computer graphics, visibility and shading, graphics and data structure, curves and surfaces, commodity graphics hardware, and graphics API. <i>Occasional.</i></p>
<p><b>BSC 2011H</b>      <b>COS-BIOL</b>      <b>4(2,6)</b>  <b>Honors Biodiversity:</b> PR: Permission of Honors and BSC 2010H or C.I. BSC 2011C for honors students; enhanced by considerable field work, a CD-ROM "text," relevant video programs and readings written by authorities in the field. <i>Occasional.</i></p>	<p><b>BSC 5408L</b>      <b>COS-BIOL</b>      <b>3(0,9)</b>  <b>Advanced Biology Laboratory Techniques:</b> PR: BS degree, C.I. This course will emphasize those biological techniques and resources necessary for students about to begin thesis research. Individual and small group instruction in current laboratory techniques, literature searches, and hands-on practice of techniques will be stressed. May not be repeated for credit. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>CAP 5015</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Multimedia Compression on the Internet:</b> 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. <i>Occasional.</i></p>
<p><b>BSC 2420</b>      <b>BCBS-M&amp;M</b>      <b>3(3,0)</b>  <b>Principles of Biotechnology:</b> Principles, applications, laws, ethics and impact on society of biotechnology in agriculture, medicine, forestry, environment, computers/industrial/chemical engineering and business management. <i>Occasional.</i></p>	<p><b>BSC 5817</b>      <b>COS-BIOL</b>      <b>3(3,0)</b>  <b>Biology for AP Teachers:</b> PR: Graduate status or senior standing or C.I. Participants will perform and evaluate the 12 required labs, analyze the design and grading of the Exam, and develop a representative program. <i>Occasional.</i></p>	<p><b>CAP 5415</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Computer Vision:</b> PR: COP 3503C, MAC 2312 and COT 3960. Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation. <i>Fall.</i></p>
<p><b>BSC 3403C</b>      <b>BCBS-M&amp;M</b>      <b>4(3,4)</b>  <b>Quantitative Biological Methods:</b> PR: BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation. <i>Fall, Spring.</i> M&amp;S fee: \$25.00</p>	<p><b>BTE 4410</b>      <b>ED-TLP</b>      <b>3(3,0)</b>  <b>Course Construction in Business Education:</b> PR: EVT 3365 or C.I. An overview and examination of business curriculum and methodology integrated into the vocational frameworks. Planning and preparation of materials, managing the laboratory and involvement in vocational student organizations. <i>Occasional.</i></p>	<p><b>CAP 5419</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>3D Computer Vision:</b> PR: C.I. 2D/3D Projective Geometry, Projective Transformation Estimation, Camera Calibration, Single View Modeling, Bi-focal Modeling, Fundamental Matrix, Stratified Structure, Homography, Tri-focal Tensor, Auto-Calibration, Chirality. <i>Occasional.</i></p>
<p><b>BSC 3404H</b>      <b>BCBS-M&amp;M</b>      <b>4(3,4)</b>  <b>Quantitative Biological Methods-Honors:</b> PR: Consent of Honors, BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular biological experimentation. Honors level content. <i>Fall.</i></p>	<p><b>BUL 3130</b>      <b>BA-ACCT</b>      <b>3(3,0)</b>  <b>Legal and Ethical Environment of Business:</b> PR: Junior standing and business major or minor. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical consideration. <i>Fall, Spring.</i></p>	<p><b>CAP 5512</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Evolutionary Computation:</b> This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms. <i>Spring.</i></p>
<p><b>BSC 3424</b>      <b>BCBS-M&amp;M</b>      <b>3(3,0)</b>  <b>Nanobiotechnology:</b> PR: MCB 1310, and either CHM 2046 or PHY 2054C. Biological processes in nano scale interactions with elements of physics &amp; engineering. <i>Occasional.</i></p>	<p><b>BUL 3130H</b>      <b>BA-ACCT</b>      <b>3(3,0)</b>  <b>Legal &amp; Ethical Environment of Business - Honors:</b> 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. <i>Occasional.</i></p>	<p><b>CAP 5610</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Machine Learning:</b> PR: CAP 4630 or C.I. Origin/evaluation of machine intelligence; machine learning concepts and their applications in problem solving, planning and "expert systems;" symbolic role of human and computers. <i>Occasional.</i></p>
<p><b>BSC 3949</b>      <b>COS-BIOL</b>      <b>0(0,8)</b>  <b>Cooperative Education in Biology:</b> PR: Departmental permission required before registering. Cooperative education experience in biology. May be repeated. Graded S/U. <i>Occasional.</i></p>	<p><b>BUL 4540</b>      <b>BA-MAN</b>      <b>3(3,0)</b>  <b>Employment Law:</b> PR: Management major or minor, MAN 3025, CR: MAN 3301. An examination of current employment law and issues/trends in the legal environment impacting human resource management system design, HRM policy and employee relations. <i>Fall, Spring.</i></p>	<p><b>CAP 5636</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Advanced Artificial Intelligence:</b> PR: CAP 4630. AI theory of knowledge representation, "expert systems," memory organization, problem solving, learning, planning, vision, and natural language. <i>Fall.</i></p>
<p><b>BSC 4101</b>      <b>COS-BIOL</b>      <b>3(3,0)</b>  <b>History of Biology:</b> PR: BSC 2010C, BSC 2011C and 8 hours in biology or C.I. People and events involved in the development of major biological concepts and disciplines. Suitable for majors and non-majors. <i>Occasional.</i></p>	<p><b>BUL 5332</b>      <b>BA-ACCT</b>      <b>3(3,0)</b>  <b>Advanced Business Law Topics:</b> 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. <i>Fall, Spring.</i></p>	<p><b>CAP 5725</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Computer Graphics I:</b> Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems. <i>Spring.</i></p>
		<p><b>CBH 3003</b>      <b>COS-PSYCH</b>      <b>3(3,0)</b>  <b>Comparative Psychology:</b> PR: PSY 2012. A study of comparative behaviors of lower animals. <i>Occasional.</i></p>



## UCF Courses and Descriptions

<b>CCE 4003</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCE 5815</b>	<b>ECS-CEE</b>	<b>4(4,0)</b>	<b>CCJ 4296</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Introduction to the Construction Industry:</b> PR: EGN 3613, EGN 3310, ENV 3001. Project delivery systems, construction contracts; estimating and scheduling; ethics and labor issues. Multi-disciplinary experience in engineering. <i>Fall.</i>			<b>Mechanical and Electrical Systems for Buildings:</b> PR: C.I. This course covers the design and construction of mechanical and electrical systems for buildings. Research paper required. <i>Occasional.</i>			<b>Famous Crimes &amp; Trials:</b> PR: CCJ 3014 or CCJ 3024 or consent of instructor. A detailed examination of selected famous American crimes and trials since 1900. <i>Occasional.</i>		
<b>CCE 4004</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 3014</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4361</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Methods:</b> PR: CES 4100C. Construction project evaluation principles along with construction methods for civil and structural systems. <i>Spring.</i>			<b>Crime in America:</b> A survey of crime and criminality in the United States, with emphasis on crime data, its weaknesses, and types of criminal behavior. <i>Fall, Spring.</i>			<b>Death Penalty:</b> PR: CCJ 3024. This course provides students an opportunity to analyze and discuss complex issues surrounding the death penalty and the criminal justice system. <i>Occasional.</i>		
<b>CCE 4031</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 3024</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4454</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Project Management:</b> 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. <i>Occasional.</i>			<b>Criminal Justice System:</b> An examination of the components and of their interdependence in light of their traditional autonomy. <i>Fall, Spring.</i>			<b>Policy Development in Law Enforcement:</b> 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. <i>Occasional.</i>		
<b>CCE 4034</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 3058</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4459</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Estimating and Scheduling:</b> 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. <i>Fall.</i>			<b>Origins of Criminal Justice:</b> PR: CCJ 3024. Study of criminal justice system evolution. Focus on developments contributing to the institutions and practices of the American criminal justice system. <i>Occasional.</i>			<b>Justice Agency Operations:</b> PR: CCJ 3024 and CCJ 3450 or C.I. Elements, functions, and processes essential to the continuing management of various criminal justice agencies, institutions and court systems. <i>Occasional.</i>		
<b>CCE 4402</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 3450</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4463</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Equipment and Productivity:</b> PR: CCE 4003, CWR 3201. Selection of appropriate equipment based on operational parameters, principles of construction productivity measurement and analysis, and discrete event simulation. <i>Spring.</i>			<b>The Criminal Justice Manager:</b> 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. <i>Occasional.</i>			<b>Cultural Diversity in Criminal Justice:</b> 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. <i>Occasional.</i>		
<b>CCE 4810C</b>	<b>ECS-CEE</b>	<b>3(2,2)</b>	<b>CCJ 3451</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4484</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Design Project:</b> PR: Senior Standing, CCE 4034, and CCE 4004. The preparation and development of a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control. <i>Spring.</i>			<b>Justice System Technology:</b> 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. <i>Occasional.</i>			<b>Liability Issues in Criminal Justice:</b> PR: CCJ 3024. Student of fundamental concepts found in civil law with an emphasis on civil liability regarding criminal justice practices. <i>Occasional.</i>		
<b>CCE 4813</b>	<b>ECS-CEE</b>	<b>4(4,0)</b>	<b>CCJ 3483</b>	<b>HPA-CJ/LS</b>	<b>4(4,0)</b>	<b>CCJ 4486</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Mechanical and Electrical Systems for Buildings:</b> PR: CCE 4003, PHY 2049/L, CWR 3201. Design and construction of mechanical and electrical systems for buildings. <i>Fall.</i>			<b>Labor Relations in Criminal Justice:</b> 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. <i>Occasional.</i>			<b>Criminal Justice Ethics:</b> Focuses on the ethical issues and problems commonly encountered in the criminal justice system (policy courts and corrections). <i>Occasional.</i>		
<b>CCE 5006</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 3520H</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4616</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Introduction to Construction Industry:</b> PR: post-bac status or C.I. This course introduces students to the construction industry. Topics include project evaluation, project phases, project delivery systems, contracts, estimating and schedule drawing and specifications. Research paper required. <i>Occasional.</i>			<b>Honors Juvenile Offenders: An Integrative Perspective:</b> PR: Permission of Honors. To provide students with an integrative understanding of the social, psychological, and legal dynamics evident in processing juvenile offenders. <i>Occasional.</i>			<b>Criminal Profiling in Criminal Justice:</b> 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. <i>Occasional.</i>		
<b>CCE 5036</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 3667</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4641</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Estimation and Scheduling:</b> 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. <i>Occasional.</i>			<b>Victims and the CJ System:</b> PR: CCJ 3024. Course examines victims as they affect the Criminal Justice system, the dimensions of criminal victimization, and victim offender programs. <i>Occasional.</i>			<b>Organized Crime:</b> An examination of organized crime, including structures, history and activities, and of issues surrounding efforts to define and control it. <i>Occasional.</i>		
<b>CCE 5205</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 4035</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4644</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Methods:</b> PR: post-bac status or C.I. This class covers construction project evaluation principles along with construction methods for civil and structural systems. <i>Occasional.</i>			<b>Crime and the Media:</b> 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. <i>Fall, Spring.</i>			<b>White Collar Crime:</b> PR: CCJ 3014 and CCJ 3024. Classic definitions and statements on white collar crime concepts, concepts and criminal activities, types of fraud, investigations, environmental crime, and corporate crime. <i>Occasional.</i>		
<b>CCE 5406</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CCJ 4076</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4651</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
<b>Construction Equipment and Productivity:</b> PR: C.I. Selection of appropriate equipment based on operational parameters. Principles of construction productivity measurement and analysis. Discrete event simulation. <i>Occasional.</i>			<b>Crime Analysis II:</b> PR: CJE 4654, CJE 4663. Designed to provide advanced data analysis skills that will enable a crime analysis sophisticated methodologies to crime analysis. <i>Occasional.</i>			<b>Drugs and Crime:</b> 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. <i>Fall, Spring.</i>		
			<b>CCJ 4195</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>	<b>CCJ 4661</b>	<b>HPA-CJ/LS</b>	<b>3(3,0)</b>
			<b>Interviews &amp; Interrogations in CJ:</b> PR: CCJ 3024 (Criminal Justice System) and CJ Major or CI. The criminal justice interview process including history of criminal justice interviews, the use of Miranda, non-verbal listening, and the rules of testimonial evidence. <i>Fall, Spring.</i>			<b>Terrorism:</b> PR: CCJ 3024 and CJE 4014 or C.I. An examination of competing ideologies of a variety of social and political conflicts (both international and domestic) that give rise to terrorism and of the implications for the criminal justice system. <i>Occasional.</i>		

## UCF Courses and Descriptions

CCJ 4670	HPA-CJ/LS	3(3,0)	CCJ 5617	HPA-CJ/LS	3(3,0)	CDA 5110	ECS-CS	3(3,0)
<b>Women and Crime:</b> This course covers women in criminal justice as offenders and prisoners, as well as crime victims and professionals working in the system. <i>Occasional.</i>			<b>Mental Disorder, Crime, and Criminal Justice:</b> PR: CCJ 5456, CCJ 5015, or C.I. An overview of the relationship between mental disorder, crime, and the criminal justice system. <i>Occasional.</i>			<b>Parallel Architecture and Algorithms:</b> PR: COT 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. <i>Occasional.</i>		
CCJ 4681	HPA-CJ/LS	3(3,0)	CCJ 5675	HPA-CJ/LS	3(3,0)	CDA 5215	ECS-CS	3(3,0)
<b>Domestic Violence and the Justice System:</b> PR: CCJ 3024. Study of the nature and causes of forms of domestic violence, pertaining to laws, prevention strategies, and justice system response. <i>Occasional.</i>			<b>Human Rights &amp; Criminal Justice:</b> 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. <i>Occasional.</i>			<b>Architecture and Design of VLSI:</b> PR: CDA 4150 or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system. <i>Occasional.</i>		
CCJ 4690	HPA-CJ/LS	3(3,0)	CCJ 5704	HPA-CJ/LS	3(3,0)	CDA 5501	ECS-CS	3(3,0)
<b>Sex Offenders and the Criminal Justice System:</b> PR: CCJ 3024. Provides students a better understanding of how the criminal justice system deals with sex offenders and their offenses. <i>Odd Fall, Spring.</i>			<b>Research Methods in Criminal Justice:</b> An examination of the philosophy and techniques of research as applied in the Criminal Justice field. <i>Fall, Spring.</i>			<b>Computer Communication Networks Architecture:</b> PR: CDA 4150. Computer networks, layers, protocols and interfaces, local area networks networking. <i>Fall.</i>		
CCJ 4701	HPA-CJ/LS	3(3,0)	CCJ 5931	HPA-CJ/LS	3(3,0)	CDA 5530	ECS-CS	3(3,0)
<b>Research Methods in Criminal Justice:</b> 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. <i>Fall, Spring.</i>			<b>Contemporary Criminal Justice Strategies:</b> 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). <i>Occasional.</i>			<b>Performance Models of Computers and Networks:</b> PR: senior standing or beginning graduate student. Performance Models of Computer Systems and Networks using probability models and discrete event simulations. Queuing Theory and modeling tools. <i>Occasional.</i>		
CCJ 4934	HPA-CJ/LS	1-3 (1-3,0)	CCJ 5934	HPA-CJ/LS	1(1,0)	CDA 5532	ECS-CS	3(3,0)
<b>Emergent Criminal Justice Issues:</b> PR: CCJ 3014, CCJ 3024 or C.I. Developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit. <i>Occasional.</i>			<b>Criminal Justice Investigative Process:</b> 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). <i>Occasional.</i>			<b>Network-Centric Computing:</b> PR: Graduate standing. Concepts in network-centric computing and process coordination in information grids. <i>Occasional.</i>		
CCJ 5015	HPA-CJ/LS	3(3,0)	CDA 3103C	ECS-CS	4(3,1)	CEG 3301	ECS-CEE	3(3,0)
<b>The Nature of Crime:</b> 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. <i>Fall, Spring.</i>			<b>Computer Organization:</b> PR: COP 3223. Logic Design, Computer Arithmetic, Instruction Set Architecture (MIPS, SPIM simulator), Performance, Data Path, Control Unit, Memory Hierarchy, I/O Interface. <i>Fall, Spring.</i>			<b>Engineering and Environmental Geology:</b> PR: EGN 3310 and CHS 1440 or equivalent. Principles of physical geology, with emphasis on engineering and environmental topics. Study of land forms, geologic maps, geologic structure, weathering, groundwater, mass wasting, and earthquakes. <i>Occasional.</i>		
CCJ 5040	HPA-CJ/LS	6(6,0)	CDA 4150	ECS-CS	3(3,0)	CEG 4101C	ECS-CEE	4(3,2)
<b>International Perspectives on Law and Justice:</b> PR: C.I. or graduate standing. Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits. <i>Occasional.</i>			<b>Computer Architecture:</b> PR: COP 3402 and CDA 3103C. Basic processor design, hardwired and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. <i>Fall, Spring.</i>			<b>Geotechnical Engineering I:</b> PR: EGN 3331 and CWR 3201. Engineering properties and classification of soils. Design considerations for compaction, seepage, consolidation, and settlement analysis. <i>Fall, Spring.</i> M&S fee: \$30.00		
CCJ 5073	HPA-CJ/LS	3(3,0)	CDA 4150H	ECS-CS	3(3,0)	CEG 4801C	ECS-CEE	3(2,2)
<b>Data Management Systems for Crime Analysis:</b> PR: graduate standing or C.I. This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation. <i>Fall.</i>			<b>Honors Computer Architecture:</b> PR: Permission of Honors and COP 3402 and CDA 3103C. Same as CDA 4150 with Honors level content. <i>Occasional.</i>			<b>Geotechnical Engineering Design:</b> PR: CEG 4101C. Project course on design of foundations and other soil structures using geotechnical design methodologies. <i>Fall, Spring.</i> M&S fee: \$15.00		
CCJ 5105	HPA-CJ/LS	3(3,0)	CDA 4506C	ECS-CS	3(1,2)	CEG 4812	ECS-CEE	1(1,0)
<b>Foundations of Law Enforcement:</b> PR: C.I. Examines police role in modern society and law enforcement policy. <i>Occasional.</i>			<b>Design and Implementation of Computer Communication Networks:</b> PR: COP 3502C, MAD 2104 or COT 3100C. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), products (routers, switches, adapters, cabling). Base design and detailed configuration including hands-on exercises. <i>Fall, Spring.</i>			<b>Historical Developments in Civil Engineering:</b> Seminar covering major historical developments in civil engineering. <i>Occasional.</i>		
CCJ 5406	HPA-CJ/LS	3(3,0)	CDA 4527	ECS-CS	3(3,0)	CEG 5015	ECS-CEE	3(3,0)
<b>Research and Technology Implementation:</b> Changing roles of social and physical sciences as related to the objectives and administration of public safety agencies. <i>Occasional.</i>			<b>Analysis of Computer Communication Networks:</b> PR: COT 3100C, 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. <i>Occasional.</i>			<b>Geotechnical Engineering II:</b> PR: CEG 4101C. Continuation of CEG 4101C with emphasis on shear strength and design factors for earth pressures, bearing capacity, and slope stability. <i>Occasional.</i>		
CCJ 5456	HPA-CJ/LS	3(3,0)	CDA 5106	ECS-CS	3(3,0)	CEG 5700	ECS-CEE	3(3,0)
<b>The Administration of Justice:</b> This course provides an overview of the criminal justice system and a critical analysis of formal and informal processing of offenders by criminal justice agencies. <i>Fall, Spring.</i>			<b>Advanced Computer Architecture I:</b> PR: CDA 4150. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O. <i>Fall, Spring.</i>			<b>Geo-Environmental Engineering:</b> PR: CEG 4101C. Geotechnical applications to environmental problems, groundwater flow, soil contamination and groundwater contaminate transport, geosynthetics and stability of landfill design, control of contaminated sites. <i>Occasional.</i>		
CCJ 5467	HPA-CJ/LS	3(3,0)				CEN 4020	ECS-CS	3(3,0)
<b>Justice and Safety System Manpower:</b> Processes essentials to administration to human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel. <i>Occasional.</i>						<b>Component-based Engineering Software:</b> 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. <i>Occasional.</i>		

<b>CEN 5016</b>	<b>ECS-CS</b>	<b>3(3,0)</b>	<b>CET 2364</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>	<b>CET 4333</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Software Engineering:</b> PR: COP 4331C. Application of formal software processes, engineering methods, and documentation standards to the development of large scale software systems. A team project is required. <i>Spring.</i>			<b>Systems Applications in C:</b> 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. <i>Fall, Spring.</i>			<b>Computer Organization and Design:</b> PR: CET 3323C. Basic computer architecture and system design. An introduction to memory, processor, Bus and I/O organization. <i>Occasional.</i>		
<b>CES 4100C</b>	<b>ECS-CEE</b>	<b>4(3,3)</b>	<b>CET 3010</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>	<b>CET 4334C</b>	<b>ECS-ENT</b>	<b>3(2,2)</b>
<b>Structural Analysis I and Lab:</b> PR: EGN 3331. Topics in structural mechanics, analysis of determinate and indeterminate structures by flexibility and stiffness methods computer and laboratory exercises on behavior of structures and materials. <i>Fall.</i>			<b>Introduction to Information Technology:</b> PR: MAC 1105. An introduction to IT field, including binary representation, graphics, data compression, information theory, transmission and storage technology, and communications. <i>Fall, Spring.</i>			<b>Applied Computer Systems II:</b> PR: CET 4333. Continuation of CET 4333. High performance computer architecture. Parallel processing and scalable shared-memory multiprocessing. May be repeated for credit. <i>Occasional.</i>		
<b>CES 4101</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CET 3144C</b>	<b>ECS-ENT</b>	<b>3(2,2)</b>	<b>CET 4427</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Structural Analysis II:</b> PR: CES 4100C. Special structures; introduction to matrix structural analysis, dynamic loads including wind and earthquake. <i>Occasional.</i>			<b>Applied Microprocessor Technology:</b> 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. <i>Occasional.</i> M&S fee: \$10.00			<b>Applied Database I:</b> 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. <i>Fall, Spring.</i>		
<b>CES 4605</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CET 3198C</b>	<b>ECS-ENT</b>	<b>3(3,2)</b>	<b>CET 4429</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Steel Structures:</b> PR: CES 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. <i>Fall.</i>			<b>Digital Systems:</b> PR: DC Circuits and Digital Circuits 1. Finite State Machines and Algorithmic State Machines, includes design, synthesis and implementation of a digital system using schematic capture and VHDL. <i>Spring.</i> M&S fee: \$12.00			<b>Applied Database II:</b> PR: CET 4427. Continuation of CET 4427. Study of hierarchial database system. Programming project is required. May be repeated for credit. <i>Spring.</i>		
<b>CES 4608C</b>	<b>ECS-CEE</b>	<b>3(2,2)</b>	<b>CET 3323C</b>	<b>ECS-ENT</b>	<b>4(3,2)</b>	<b>CET 4469C</b>	<b>ECS-ENT</b>	<b>3(2,2)</b>
<b>Steel Design:</b> PR: CES 4605. Project course on design of steel components, connections, and frame structures using AISC specifications. <i>Spring.</i> M&S fee: \$15.00			<b>Digital Technology:</b> PR: MAC 1105 and C.I. Digital logic gates, memory devices, Karnaugh Maps, combinational logic, arithmetic units, registers and sequential logic. <i>Fall, Spring.</i>			<b>Applied Infobases:</b> PR: ETI 3651C, CET 3144C, CET 3503 or equivalent, C.I. Using computer application packages to create, use, and index both personal and technical infobases. Hardware and software optimization. Enhancement add-ins. Intranet applications. <i>Occasional.</i>		
<b>CES 4702</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CET 3383</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>	<b>CET 4483</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Reinforced Concrete Structures:</b> PR: CES 4100C or C.I. Design of RC members using ACI code; beam flexure and shear; compression bending; bond and development; introduction to continuous frames. <i>Spring.</i>			<b>Applied Systems Analysis I:</b> 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. <i>Spring.</i>			<b>Intro to Local Area Network Technology:</b> 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. <i>Spring.</i>		
<b>CES 4709C</b>	<b>ECS-CEE</b>	<b>3(2,2)</b>	<b>CET 3503</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>	<b>CET 4505</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Concrete Design:</b> PR: CES 4702. Project course on design of concrete structures using concrete and structural analysis methodologies. <i>Fall.</i> M&S fee: \$15.00			<b>Microcomputer Technology I:</b> PR: High level programming language. Microcomputer assembly programming, including overview of architecture and operating system environment. <i>Fall.</i>			<b>Applied Operating Systems I:</b> PR: CET 2364. Modifying the operating systems to support new types of devices. Analysis of limitations and strengths of commercial mass storage operating systems in industry. O.S. tool box usage. May be repeated for credit. <i>Fall.</i>		
<b>CES 5325</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CET 3529</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>	<b>CET 4523</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Bridge Engineering:</b> PR: CES 4605; CES 4702. Structural systems for bridges, loading, analysis by influence lines, slab and girder bridges, composite design, prestressed concrete, rating of existing bridges, specifications and economic factors. <i>Occasional.</i>			<b>Linux/Unix System Admin and Applications:</b> PR: CET 2364 or equivalent. Installation, creation and maintenance of file systems, backups, and configuration. <i>Fall, Spring.</i>			<b>Applied Systems Analysis II:</b> 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. <i>Occasional.</i>		
<b>CES 5606</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CET 3752</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>	<b>CET 4583</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Advanced Steel Structures:</b> 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. <i>Occasional.</i>			<b>Intro to Telephony:</b> PR: EET 3085C or equivalent or C.I. An introductory level course in telephony technology. The telephony environment, telemanagement, telephony connectivity and services of telephony. <i>Fall.</i>			<b>Web Based Systems I:</b> PR: CET 2364. Introduction to web systems with emphasis on server configuration, web standards, and portal design. <i>Occasional.</i>		
<b>CES 5706</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CET 4134C</b>	<b>ECS-ENT</b>	<b>3(2,4)</b>	<b>CET 4584</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Advanced Reinforced Concrete:</b> 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. <i>Occasional.</i>			<b>Microprocessor Electronics II:</b> PR: Digital Circuits I and CET 2123C. The MC68000 Software architecture programming and hardware architecture are covered in great details. Assembly language programming interfacing and hardware characteristics as well as applications are covered. <i>Occasional.</i> M&S fee: \$45.00			<b>Web Based Systems II:</b> PR: CET 4583. Advanced web design concentration on use of current technology (CGI, Java, XML, DHTML) to provide interactivity. <i>Fall.</i>		
<b>CES 5821</b>	<b>ECS-CEE</b>	<b>3(3,0)</b>	<b>CET 4138C</b>	<b>ECS-ENT</b>	<b>3(3,2)</b>	<b>CET 4663</b>	<b>ECS-ENT</b>	<b>3(3,0)</b>
<b>Masonry and Timber Design:</b> PR: C.I. Structural properties of masonry and timber; design loads-codes and standards; analysis for axial loads, flexure and shear. <i>Occasional.</i>			<b>Digital Programmable Devices:</b> 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 FPGSS. <i>Occasional.</i>			<b>Computer and Network Security:</b> PR: CET 2364, MAC 1105. Fundamentals of computer security technology, including cryptography, authentication, digital signatures, and network security tools and applications. <i>Fall.</i>		
<b>CET 2123C</b>	<b>ECS-ENT</b>	<b>3(2,3)</b>				<b>CET 4741L</b>	<b>ECS-CS</b>	<b>3(0,3)</b>
<b>Microprocessor Electronics I:</b> PR: MAC 1105. Introduction to microprocessors. Includes machine language programming, an introduction to microprocessor-based system architecture, and binary and hexadecimal arithmetic. <i>Occasional.</i> M&S fee: \$5.00						<b>Computer Networking Laboratory:</b> PR: C.I. Laboratory exercises to enhance the understanding of concepts/principles discussed in computer networking and data communication texts. <i>Occasional.</i>		

## UCF Courses and Descriptions

<p><b>CET 4748</b>      ECS-ENT      3(3,0)  <b>Wide Area Networks I:</b> 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. <i>Fall.</i></p>	<p><b>CGN 4808C</b>      ECS-CEE      3(2,2)  <b>Civil Engineering Capstone Design:</b> PR: one of the following courses - TTE 4601C, CES 4608C, CES 4709C, CWR 4812C, ENV 4562C, 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. <i>Occasional.</i></p>	<p><b>CGS 3285</b>      ECS-CS      3(3,0)  <b>Computer Network Concepts:</b> PR: CGS 1060C or equivalent. Network media, protocol, current and evolving standards for local, metropolitan, wide area and wireless networks. <i>Fall, Spring.</i></p>
<p><b>CET 4749</b>      ECS-ENT      3(3,0)  <b>Wide Area Networks II:</b> PR: CET 4748. Traffic and cost generators. Access network design. Multi-speed access designs. Multilocal-access and mesh network design. <i>Spring.</i></p>	<p><b>CGN 5320C</b>      ECS-CEE      3(2,2)  <b>Geographic Information systems:</b> Programming theory and application of Geographic Information Systems to Civil Engineering projects. <i>Occasional.</i></p>	<p><b>CGS 3763</b>      ECS-CS      3(3,0)  <b>Operating System Concepts:</b> PR: CGS 1060C. System calls, concept of processes, CPU scheduling, security issues, client server paradigms, and computer supported workgroups. <i>Occasional.</i></p>
<p><b>CET 4882</b>      ECS-ENT      3(3,0)  <b>Network Defense Strategies:</b> PR: CET 4663. Secure implementation and use of preventative controls when designing network architectures. Tools covered include firewalls, routers, and other components. <i>Occasional.</i></p>	<p><b>CGN 5504C</b>      ECS-CEE      3(2,2)  <b>Civil Engineering Materials:</b> PR: EGN 3365, EGN 3331, or C.I. Structure, properties, and applications of materials used in civil engineering including concrete, steel, asphalt, wood, soils, and composite materials. <i>Occasional.</i></p>	<p><b>CGS 5131</b>      ECS-CS      3(3,0)  <b>Computer Forensics I: Seizure and Examination of Computer Systems:</b> PR: Computer literacy and C.I. Legal issues regarding seizure and chain of custody. Technical issues in acquiring computer evidence. Popular file systems are examined. Reporting issues in the legal system. <i>Fall.</i></p>
<p><b>CET 4884</b>      ECS-ENT      3(3,0)  <b>Security Methods and Practice:</b> PR: CET 4663, CET 4483 or C.I. Computer networks, secure telecommunications networks, disaster recovery, and the legal issues of security practices. <i>Spring.</i></p>	<p><b>CGN 5506C</b>      ECS-CEE      3(2,2)  <b>Asphalt Concrete Mix Design:</b> PR: CEG 4101C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation. <i>Occasional.</i></p>	<p><b>CGS 5132</b>      ECS-CS      3(3,0)  <b>Computer Forensics II: Network Security, Intrusion Detection, &amp; Forensic Analysis:</b> PR: CGS 5131. Computer network protocols and security, network intrusion detection and prevention, digital evidence collection and evaluation, and legal issues involved in network forensics analysis. <i>Spring.</i></p>
<p><b>CET 4885</b>      ECS-ENT      3(3,0)  <b>Investigative Digital Technology:</b> PR: CET 4884. Security administration including vulnerability analysis, procedures and tools for security assessment. <i>Fall.</i></p>	<p><b>CGS 1060C</b>      ECS-CS      3(2,2)  <b>Introduction to Computer Science:</b> History, typical computer, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>CHI 1120</b>      CAH-LANG      4(4,1)  <b>Elementary Chinese Language and Civilization I:</b> Designed to initiate the student to the major language skills: listening, speaking, reading and writing. <i>Fall.</i></p>
<p><b>CET 4889</b>      ECS-ENT      3(3,0)  <b>Security Sensor Technology and Biometrics:</b> PR: CET 4663 or C.I. Biometric identification. Techniques for extracting trait information for individual identification. Topics include multimodal biometrics, performance evaluation, biometric templates and privacy. <i>Spring.</i></p>	<p><b>CGS 1060H</b>      ECS-CS      3(2,2)  <b>Honors Introduction to Computer Science:</b> PR: Permission of Honors. History, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>CHI 1121</b>      CAH-LANG      4(4,1)  <b>Elementary Chinese Language and Civilization II:</b> PR: CHI 1120 or equivalent. Continuation of CHI 1120. <i>Spring.</i></p>
<p><b>CET 4915C</b>      ECS-ENT      3(1,4)  <b>Senior Design Project:</b> 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. <i>Occasional.</i></p>	<p><b>CGS 2100C</b>      ECS-CS      3(2,1)  <b>Computer Fundamentals for Business:</b> Uses of computers and software in business, including business applications, commercial packages, and the internet. Not open to Computer Science majors. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>CHI 1140H</b>      CAH-LANG      4(4,0)  <b>Honors Elementary Chinese Language and Civilization I:</b> PR: Permission of Honors. Introduces the student to Chinese culture through the major language skills: Listening, speaking, reading and writing. Open only to students with no experience in the language. Honors level content. <i>Occasional.</i></p>
<p><b>CET 4931</b>      ECS-ENT      3(3,0)  <b>Current Topics in Technology:</b> 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. <i>Occasional.</i></p>	<p><b>CGS 2515</b>      ECS-CS      3(3,0)  <b>Spreadsheet Concepts:</b> PR: CGS 1060C. Advanced techniques of spreadsheets, charts, macros, objects, database features and data analysis tools. <i>Occasional.</i></p>	<p><b>CHI 1141H</b>      CAH-LANG      4(4,0)  <b>Honors Elementary Chinese Language and Civilization II:</b> PR: Permission of Honors. Continuation of CHI 1140H. <i>Occasional.</i></p>
<p><b>CGN 3501C</b>      ECS-CEE      3(2,3)  <b>Civil Engineering Materials:</b> PR: C.I. The characterization of materials used in civil engineering works to include concrete, soils, bituminous, polymers and composite materials. <i>Occasional.</i></p>	<p><b>CGS 2545C</b>      ECS-CS      3(2,1)  <b>Database Concepts:</b> PR: CGS 1060C or equivalent. Entity-relation model, relational database managements systems, normal forms, performance or databases, report generation. <i>Fall, Spring.</i></p>	<p><b>CHM 1020</b>      COS-CHEM      3(3,0)  <b>Concepts in Chemistry:</b> PR: High school Algebra. Concepts will be examined to provide insight into the significant role that chemistry plays in our culture. Intended as a general education course. <i>Fall, Spring.</i></p>
<p><b>CGN 4300</b>      ECS-CEE      3(3,0)  <b>Civil Engineering Systems:</b> PR: EGN 3613; MAC 2313; STA 3032. Mathematical techniques commonly associated with operations research and economics which are applicable to the planning, design, and operation of civil engineering systems. <i>Occasional.</i></p>	<p><b>CGS 2585C</b>      ECS-CS      3(2,1)  <b>Desktop/Internet Publishing:</b> PR: CGS 1060C or equivalent. Principles and techniques of page layout and formatting for documents and newsletters, presentation techniques, construction of web pages and design of integrated websites. <i>Occasional.</i></p>	<p><b>CHM 1032</b>      COS-CHEM      3(3,0)  <b>General Chemistry:</b> PR: MAC 1105 or MGF 1106 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward Health Science majors. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>
<p><b>CGN 4600</b>      ECS-CEE      3(3,0)  <b>Public Works Engineering:</b> PR: ENV 3001 and CWR 3201. An overview of planning, design, operation and maintenance of public works, with emphasis on water and wastewater treatment plants. May be repeated for credit. <i>Occasional.</i></p>	<p><b>CGS 3175</b>      ECS-CS      3(3,0)  <b>Internet Applications:</b> PR: CGS 1060C. HTML coding, using images, sound and animation, advanced text formatting, forms and CGS scripts, introduction to javascript. <i>Fall, Spring.</i></p>	<p><b>CHM 1032L</b>      COS-CHEM      1(0,3)  <b>General Chemistry Laboratory:</b> PR: or CR: CHM 1032. Preference will be given to students whose major requires this course. An introductory study of physical and chemical properties of elements and compounds. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>
	<p><b>CGS 3269</b>      ECS-CS      3(3,0)  <b>Computer Architecture Concepts:</b> PR: CGS 1060C. CPU organization, current computer architectures, network file servers. <i>Fall, Spring.</i></p>	<p><b>CHM 2045C</b>      COS-CHEM      4(3,1)  <b>Chemistry Fundamentals I:</b> PR: High school chemistry or CHM 1032. Basic physical theory of chemical reactivity, atomic structure, chemical bonding, periodicity, stoichiometry, equilibria, thermodynamics, and kinetics. The "NC" grading policy applies to this course. <i>Fall, Spring.</i> M&amp;S fee: \$25.00</p>

## UCF Courses and Descriptions

<p><b>CHM 2045H</b>    <b>COS-CHEM</b>    <b>4(3,3)</b>  <b>Honors Chemistry Fundamentals I:</b> PR: High school chemistry and permission of Honors. Same as CHM 2045C with honors-level content. <i>Fall, Spring.</i> M&amp;S fee: \$25.00</p>	<p><b>CHM 3411</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Physical Chemistry II:</b> PR: CHM 3410. Continuation of CHM 3410. <i>Spring.</i></p>	<p><b>CHM 5450</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Polymer Chemistry:</b> PR: CHM 2211, and graduate status or senior standing or C.I. An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered. <i>Even Fall.</i></p>
<p><b>CHM 2046</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Chemistry Fundamentals II:</b> PR: "C-" grade or better in CHM 2045C. Continuation of CHM 2045C. <i>Fall, Spring.</i></p>	<p><b>CHM 3411L</b>    <b>COS-CHEM</b>    <b>2(0,6)</b>  <b>Physical Chemistry Laboratory:</b> PR: CHM 3120 and CR: CHM 3411. Classical as well as modern instrumental techniques coupled with computer data processing to measure physical properties and determine atomic and molecular parameters. <i>Spring.</i> M&amp;S fee: \$41.00</p>	<p><b>CHM 5451C</b>    <b>COS-CHEM</b>    <b>3(1,5)</b>  <b>Techniques in Polymer Science:</b> 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. <i>Odd Spring.</i> M&amp;S fee: \$45.00</p>
<p><b>CHM 2046H</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Honors Chemistry Fundamentals II:</b> PR: CHM 2045H and permission of Honors. Same as CHM 2046 with honors-level content. <i>Spring.</i></p>	<p><b>CHM 3422</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Applied Physical Chemistry:</b> PR: PHY 2049 and PHY 2049L and MAC 2312. Physical chemistry as applied to the study of biological and forensic science. <i>Fall.</i></p>	<p><b>CHM 5580</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Advanced Physical Chemistry:</b> CR: CHM 3411 and PR: MAC 2313, and graduate status or senior standing or C.I. Selected topics of thermodynamics, kinetics, quantum mechanics, and structure. <i>Occasional.</i></p>
<p><b>CHM 2046L</b>    <b>COS-CHEM</b>    <b>1(0,3)</b>  <b>Honors Chemistry Fundamentals Lab:</b> PR: CHM 2045H and CR: CHM 2046H. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content. <i>Spring.</i> M&amp;S fee: \$35.00</p>	<p><b>CHM 4130C</b>    <b>COS-CHEM</b>    <b>4(2,6)</b>  <b>Advanced Analytical Laboratory Technique:</b> PR: CHM 2211, CHM 3120 (with a minimum grade of "C" or 2.0) and CHM 3411. Modern methods of analysis including electrochemistry, spectroscopy, and separation techniques. <i>Spring.</i> M&amp;S fee: \$25.00</p>	<p><b>CHM 5715C</b>    <b>COS-CHEM</b>    <b>3(2,3)</b>  <b>Optical Materials Processing and Characterization Techniques:</b> 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. <i>Occasional.</i></p>
<p><b>CHM 2046L</b>    <b>COS-CHEM</b>    <b>1(0,3)</b>  <b>Chemistry Fundamentals Laboratory:</b> CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>CHM 4220</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Organic Chemistry III:</b> PR: CHM 2211 or its equivalent. Organic reaction mechanisms and retrosynthetic analysis and their application to synthetic chemistry. <i>Occasional.</i></p>	<p><b>CHS 1440</b>    <b>COS-CHEM</b>    <b>4(3,1)</b>  <b>Fundamentals of Chemistry for Engineers:</b> 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. <i>Fall, Spring.</i></p>
<p><b>CHM 2205</b>    <b>COS-CHEM</b>    <b>5(5,0)</b>  <b>Introduction to Organic and Biochemistry:</b> PR: CHM 1032 or equivalent. An introduction to organic chemistry, stressing the chemistry of functional groups and a survey of the biochemistry of proteins, carbohydrates, lipids, and nucleic acids. <i>Spring.</i></p>	<p><b>CHM 4610</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Inorganic Chemistry:</b> CR: CHM 3411. A discussion of descriptive inorganic chemistry based on various bonding theories, thermodynamics, and kinetics. <i>Spring.</i></p>	<p><b>CHS 3501</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Introduction to Forensic Science:</b> PR: "C" grade or better in CHM 2046 &amp; L, or C.I. Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab). <i>Spring.</i></p>
<p><b>CHM 2210</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Organic Chemistry I:</b> PR: CHM 2046. Theory and applications of organic chemistry: structure, bonding, kinetics, thermodynamics, reaction mechanisms, synthesis, and stereochemistry. Structure elucidation via spectrometric techniques. <i>Fall, Spring.</i></p>	<p><b>CHM 4610L</b>    <b>COS-CHEM</b>    <b>2(0,6)</b>  <b>Inorganic Chemistry Laboratory:</b> PR: CHM 4610. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry. <i>Fall.</i> M&amp;S fee: \$25.00</p>	<p><b>CHS 3505C</b>    <b>COS-CHEM</b>    <b>4(2,6)</b>  <b>Forensic Microscopy:</b> PR: "C" grade or better in CHM 2046 &amp; L, PHY 2054C and CHS 3501. The study of the polarized light microscope and its use in the identification and comparison of trace evidence. <i>Fall.</i> M&amp;S fee: \$45.00</p>
<p><b>CHM 2211</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Organic Chemistry II:</b> PR: CHM 2210. Continuation of CHM 2210. <i>Fall, Spring.</i></p>	<p><b>CHM 4914C</b>    <b>COS-CHEM</b>    <b>1(1,1)</b>  <b>Undergraduate Research Methods:</b> PR: CHM 2211 or C.I. Selection of a research project, instruction in literature searching, seminar preparation, and laboratory techniques beyond the scope of typical chemical laboratories. <i>Fall, Spring.</i></p>	<p><b>CHS 3511C</b>    <b>COS-CHEM</b>    <b>4(2,6)</b>  <b>Trace Evidence:</b> PR: "C" grade or better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence. <i>Spring.</i> M&amp;S fee: \$45.00</p>
<p><b>CHM 2211L</b>    <b>COS-CHEM</b>    <b>2(0,6)</b>  <b>Organic Laboratory Techniques I:</b> PR: CHM 2210. An introduction to the laboratory techniques of organic chemistry, including the preparation, reaction, and analysis of organic compounds. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>CHM 4930</b>    <b>COS-CHEM</b>    <b>1(1,0)</b>  <b>Undergraduate Chemistry Seminar:</b> PR: CHM 3411 and CHM 4914C. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar. <i>Fall, Spring.</i></p>	<p><b>CHS 3514C</b>    <b>COS-CHEM</b>    <b>3(2,3)</b>  <b>Bomb Scene Investigation:</b> PR: Forensic Science major, CHS 3501 or C.I. Procedures for recognizing, collecting, preserving, and analysis of evidence from a post blast bombing crime scene. May be repeated for credit. <i>Occasional.</i></p>
<p><b>CHM 3120</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Analytical Chemistry:</b> PR: CHM 2046, CHM 2046L. Classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems. <i>Fall, Spring.</i></p>	<p><b>CHM 5225</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Advanced Organic Chemistry:</b> 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. <i>Odd Fall.</i></p>	<p><b>CHS 3530C</b>    <b>COS-CHEM</b>    <b>4(2,6)</b>  <b>Forensic Analysis of Controlled Substances:</b> PR: "C" grade or better in CHM 3120, CHM 3410, CHM 2211 &amp; L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances. <i>Fall.</i> M&amp;S fee: \$45.00</p>
<p><b>CHM 3120L</b>    <b>COS-CHEM</b>    <b>1(0,3)</b>  <b>Analytical Chemistry Laboratory:</b> PR: CHM 2046, CHM 2046L. Experimental exercise of quantitative methods of analysis using titrimetric, gravimetric, potentiometric and photometric methods of analysis including statistical treatment of experimental data. <i>Occasional.</i> M&amp;S fee: \$25.00</p>	<p><b>CHM 5235</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Applied Molecular Spectroscopy:</b> PR: CHM 3120 and CHM 2211, and graduate status or senior standing or C.I. Determination of chemical structure through interpretation of UV, IR, NMR and Mass Spectra. <i>Occasional.</i></p>	<p><b>CHS 3533C</b>    <b>COS-CHEM</b>    <b>3(2,3)</b>  <b>Forensic Biochemistry I:</b> PR: "C" or better in BSC 2010C, PCB 3063 &amp; L, and PCB 3233 &amp; 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. <i>Fall.</i> M&amp;S fee: \$30.00</p>
<p><b>CHM 3212L</b>    <b>COS-CHEM</b>    <b>2(0,6)</b>  <b>Organic Laboratory Techniques II:</b> PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. <i>Fall.</i> M&amp;S fee: \$45.00</p>	<p><b>CHM 5305</b>    <b>COS-CHEM</b>    <b>3(3,0)</b>  <b>Applied Biological Chemistry:</b> 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. <i>Occasional.</i></p>	
<p><b>CHM 3410</b>    <b>COS-CHEM</b>    <b>4(3,1)</b>  <b>Physical Chemistry I:</b> PR: CHM 2046, PHY 2049, and MAC 2312. Rigorous treatment of atomic and molecular structure, thermodynamics, kinetics, and chemical bonding. <i>Fall.</i></p>		

## UCF Courses and Descriptions

<p><b>CHS 3540C</b>      <b>COS-CHEM</b>      <b>2(1,3)</b>  <b>Fire and Debris Analysis I:</b> PR: CHM 3120 and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence. <i>Occasional.</i></p>	<p><b>CHS 4615</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>Environmental Chemistry:</b> PR: CHM 2046, senior level in biological, molecular, chemical or engineering sciences, or C.I. Principles of environmental chemistry, survey of environmental law, remediation technologies, industrial practices and environmentally responsible chemistry. <i>Odd Spring.</i></p>	<p><b>CJC 3134</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Prisons and jails:</b> PR: CJC 3010. An overview and analysis of issues in institutional corrections, focussing on prison and jail history, inmates, guards, administration and management, and programming. <i>Occasional.</i></p>
<p><b>CHS 3595</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>Forensic Science in the Courtroom:</b> PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings. <i>Spring.</i></p>	<p><b>CHS 5502</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>Principles of Forensic Science:</b> PR: Admission to Forensic Science M.S. program or C.I. Principles of forensic science crime scene investigation, concepts in physical and biological evidence, evidence collection and transport, discrimination and individualization of evidence. <i>Occasional.</i></p>	<p><b>CJC 3164</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Community-Based Corrections:</b> PR: CCJ 3024 and CJC 3010 or C.I. An overview and analysis of correction interventions and treatment programs in the community. <i>Occasional.</i></p>
<p><b>CHS 3949</b>      <b>COS-CHEM</b>      <b>0(0,8)</b>  <b>Cooperative Education in Chemistry:</b> PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded S/U. <i>Occasional.</i></p>	<p><b>CHS 5503</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>Topics in Forensic Science:</b> PR: Graduate status or C.I. Will include the history of Forensic Science and current issues such as Digital Evidence. <i>Occasional.</i></p>	<p><b>CJC 4410</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Correctional Interventions in Criminal Justice:</b> PR: CCJ 3014. Intervention techniques used with juvenile and adult offenders in institutional and community-based settings and study of the theoretical foundations. <i>Occasional.</i></p>
<p><b>CHS 4200</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>Concepts in Industrial Chemistry:</b> PR: CHM 3410. An introduction to industrial practices, emphasizing the application of chemical principles in the development of a commercial process or product. <i>Occasional.</i></p>	<p><b>CHS 5518</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>The Forensic Collection and Examination of Digital Evidence:</b> PR: Adv topics in Forensic Science, graduate status, or C.I. This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures. <i>Occasional.</i></p>	<p><b>CJC 5020</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Foundations of Corrections:</b> PR: C.I. Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices. <i>Occasional.</i></p>
<p><b>CHS 4506C</b>      <b>COS-CHEM</b>      <b>3(2,3)</b>  <b>Forensic Investigation Technology:</b> PR: A grade of "C" or better in CHS 3511C. Modern technology applied to forensic investigation. <i>Occasional.</i></p>	<p><b>CHS 5596</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>The Forensic Expert in the Courtroom:</b> PR: CHS 3533C, CHS 6535, CHS 6536, or C.I. A study of the uses of technically and scientifically trained expert witnesses at trial. <i>Spring.</i></p>	<p><b>CJE 3001</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Careers in Criminal Justice:</b> PR: CCJ 3024. Introductory course with focus on components of the Criminal Justice process (law enforcement, courts, and corrections) and employment opportunities within the criminal Justice system. <i>Fall, Spring.</i></p>
<p><b>CHS 4515C</b>      <b>COS-CHEM</b>      <b>4(2,6)</b>  <b>Forensic Crime Scene Investigation:</b> PR: Grade of "C" or better in CHM 3120, CHS 3511C, CHS 3530C, CHS 3533C and CHS 4506C. Procedures for the investigation of arson, explosives, and crime scenes. <i>Occasional.</i></p>	<p><b>CIS 3360</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Security in Computing:</b> PR: COP 3223 or EGN 3211 or CET 2364. Security theory. Legal and human factors, Malware, Intrusion patterns and tools, Windows, Unix, TCP/IP, and applications vulnerabilities. Detection. Policies and enforcement. Protection and assurance. <i>Occasional.</i></p>	<p><b>CJE 3444</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Crime Prevention:</b> PR: CCJ 3024. An overview and analysis of crime prevention strategies used in the private and public sectors. <i>Fall, Spring.</i></p>
<p><b>CHS 4532</b>      <b>COS-CHEM</b>      <b>3(3,0)</b>  <b>Interpretation of DNA Evidence:</b> PR: Grade of "C" or better in CHS 3533C. Concepts and principles of genetic data analysis as applied to forensics. <i>Occasional.</i></p>	<p><b>CIS 3362</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Cryptography and Information Security:</b> PR: COP 3223 or EGN 3211 or CET 2364, and MAC 2147 or equivalent. Encryption algorithms and ciphers. Public and private keys. Key infrastructures. Authentication, confidentiality, integrity, and nonrepudiation. Digital signatures and certificates. Hash and digest algorithms. Standards. <i>Occasional.</i></p>	<p><b>CJE 3662</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>CJ Information Technology and Data Management:</b> PR: CCJ 3024. Designed to familiarize with concepts of databases, uses, and applicability to crime analysis. <i>Occasional.</i></p>
<p><b>CHS 4534C</b>      <b>COS-CHEM</b>      <b>3(1,6)</b>  <b>Forensic Biochemistry II:</b> PR: CHS 3533C and C.I. Advanced treatment of the theoretical and practical aspects of forensic DNA analysis and the use of population genetics and genetic data analysis for evidence interpretation. <i>Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>CIS 4361</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Secure Operating Systems and Administration:</b> PR: COP 4600 or EEL 4882 or CET 4505. Understanding of secure operating systems requirements, design principles and theories, protection methods, access control, authentication, vulnerability, analysis and case studies. <i>Occasional.</i></p>	<p><b>CJE 4014</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Police and Society:</b> PR: CCJ 3024. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture. <i>Fall, Spring.</i></p>
<p><b>CHS 4537</b>      <b>COS-CHEM</b>      <b>2(2,0)</b>  <b>Forensic Laboratory Quality Assurance:</b> 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. <i>Odd Fall.</i></p>	<p><b>CIS 4363</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Network Security and Privacy:</b> PR: CDA 4506C or equivalent, CIS 3360, CIS 3362, and COP 3503C. Fundamentals of network security, protocols, secure applications, network intrusion detection, security policy, firewalls, and privacy issues. <i>Occasional.</i></p>	<p><b>CJE 4174</b>      <b>HPA-CJ/LS</b>      <b>4(4,0)</b>  <b>Comparative Justice Systems:</b> PR: CCJ 3024 and CJL 3510 or C.I. A survey of contemporary foreign criminal justice and differences emerging from various political, cultural and legal systems. <i>Occasional.</i></p>
<p><b>CHS 4541C</b>      <b>COS-CHEM</b>      <b>2(1,3)</b>  <b>Fire and Debris Analysis II:</b> PR: CHS 3540C or C.I. An advanced lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in real fire related evidence. <i>Occasional.</i></p>	<p><b>CIS 4615</b>      <b>ECS-CS</b>      <b>3(3,0)</b>  <b>Secure Software Development and Assurance:</b> PR: CDA 4506C or equivalent, COP 4331C, CIS 3360, and CIS 3362. Thread modeling, Secure code life-cycle, Buffer overflows, race conditions and format string problems, Inputs and clients, File system, Cryptography applications, UMLsec, Java security and Reverse engineering. <i>Occasional.</i></p>	<p><b>CJE 4410</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Community Policing:</b> 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. <i>Occasional.</i></p>
<p><b>CHS 4547C</b>      <b>COS-CHEM</b>      <b>3(2,3)</b>  <b>Advanced Topics in Trace Analysis:</b> PR: CHS 3511C, CHM 4130C, or C.I. Recovery and analysis of forensic trace evidence. <i>Occasional.</i> M&amp;S fee: \$39.00</p>	<p><b>CJC 3010</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>The Corrections and Penology:</b> PR: CCJ 3024 or C.I. Theories, structures, and methods of institutional and non-institutional processing and treatment of convicted criminals and juvenile offenders. <i>Fall, Spring.</i></p>	<p><b>CJE 4630</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Serial Murder and Criminal Justice:</b> PR: CCJ 3014. Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution. <i>Occasional.</i></p>
<p><b>CHS 4591</b>      <b>COS-CHEM</b>      <b>4(0,40)</b>  <b>Forensic Science Internship:</b> PR: Senior standing, within 8 hrs. of completion of degree requirements, and 2.5 overall GPA. Credit for full-time work (15 weeks; 600 hours) for a professional forensic laboratory. This course may be repeated for credit. <i>Occasional.</i></p>		<p><b>CJE 4654</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Crime and Place:</b> PR: CCJ 3024. Provides an understanding of how physical environmental features - the natural and built environment - influences crime events. <i>Occasional.</i></p>
		<p><b>CJE 4663</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Crime Analysis I:</b> 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. <i>Occasional.</i></p>

<b>CJE 5688</b> HPA-CJ/LS      3(3,0) <b>Cyber Crime and Criminal Justice:</b> PR: CCJ 5015. Deals with the problem of cyber crime and the criminal use of the Internet. Includes investigation, enforcement and legal issues. <i>Occasional.</i>	<b>CJT 4100</b> HPA-CJ/LS      3(3,0) <b>Criminal Investigation:</b> PR: CJE 4014. Course acquaints students with basic Procedures used in Criminal investigations, purpose of investigations, and ingredients for successful investigations. <i>Fall, Spring.</i>	<b>CLP 4314</b> COS-PSYCH      3(3,0) <b>Health Psychology:</b> PR: CLP 3143, PSB 3002, PPE 3003. Interactions between psychosocial and physical conditions, in prevention, diagnosis, intervention and health care delivery policy planning. Course will cover empirical phases for prevention, assessment and intervention approaches for these focal areas: cancer, chronic heart disease, diabetes, HIV disease, pain and stress. <i>Occasional.</i>
<b>CJJ 4564</b> HPA-CJ/LS      3(3,0) <b>Delinquency Control:</b> PR: CCJ 3024 and CJL 3510 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices. <i>Fall, Spring.</i>	<b>CJT 4843</b> HPA-CJ/LS      3(3,0) <b>Risk Management in Criminal Justice/Private Security:</b> PR: CJT 3804. This course examines the concept of risk management in a criminal justice context. <i>Occasional.</i>	<b>CLP 4390</b> COS-PSYCH      3(3,0) <b>Forensic Psychology:</b> PR: PSY 2012 and SOP 3751. Clinical practice of psychology within the legal system, including forensic evaluation of competency/insanity, treatment, and criminal profiling. <i>Spring.</i>
<b>CJL 3110</b> HPA-CJ/LS      3(3,0) <b>Criminal Law in Action:</b> Basic concepts of criminal law: elements of major crimes, criminal responsibility, defenses, and parties to crime. <i>Fall, Spring.</i>	<b>CLA 3850</b> CAH-PHIL      3(3,0) <b>Classical Mythology:</b> PR: ENC 1102 and either HUM 2210, REL 2300, WOH 2012, or LIT 2110. Myths of the Greeks & Romans studied through excerpts from ancient sources and experienced through works of art, literature, and music. <i>Occasional.</i>	<b>CLP 4402C</b> COS-PSYCH      3(2,2) <b>Psychology of Physical Disability:</b> PR: PSY 2012. Psychological aspects of physical disability and rehabilitation. Psychological adjustment, body-mind relationships, family and societal dynamics relative to therapeutic intervention. <i>Occasional.</i>
<b>CJL 3510</b> HPA-CJ/LS      3(3,0) <b>Prosecution and Adjudication:</b> 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. <i>Fall, Spring.</i>	<b>CLA 3851</b> CAH-PHIL      3(3,0) <b>Comparative Mythology:</b> PR: ENC 1102 and either HUM 2230, REL 2300, WOH 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. <i>Occasional.</i>	<b>CLP 5166</b> COS-PSYCH      3(3,0) <b>Advanced Abnormal Psychology:</b> 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. <i>Occasional.</i>
<b>CJL 4010</b> HPA-CJ/LS      3(3,0) <b>Legal Aspects of Policing:</b> PR: CJE 4014. The legal dimensions of various police decision-making stages; including stops and frisks; arrests; searches and seizures wiretappings; and, interrogations. <i>Occasional.</i>	<b>CLP 3004</b> COS-PSYCH      3(3,0) <b>Behavioral Self Control:</b> PR: PSY 2012. Application of behavioral and biofeedback techniques to self-regulation. <i>Occasional.</i>	<b>CLP 5187</b> COS-PSYCH      3(3,0) <b>Mental Health and Aging:</b> 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. <i>Occasional.</i>
<b>CJL 4410</b> HPA-CJ/LS      3(3,0) <b>Legal Aspects of the Criminal Court Process:</b> PR: CJL 3510. The legal dimension of various criminal court decision making stages, including: bail; charging; preliminary hearing; grand jury; pretrial hearings plea hearings; trial; and, sentencing. <i>Occasional.</i>	<b>CLP 3143</b> COS-PSYCH      3(3,0) <b>Abnormal Psychology:</b> PR: PSY 2012 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior. <i>Fall, Spring.</i>	<b>CMC 4240</b> COS-R/TV      3(1,2) <b>Corporate/Institutional Video:</b> PR: RTV 3200, RTV 3260C (RTV 3260C may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation. <i>Occasional.</i>
<b>CJL 4514</b> HPA-CJ/LS      3(3,0) <b>Criminal Sentencing:</b> PR: CCJ 3024, CJL 3510. Examines the myriad theoretical, empirical and operational issues involved in criminal sentencing policy in American society. <i>Occasional.</i>	<b>CLP 3143H</b> COS-PSYCH      3(3,0) <b>Honors Abnormal Psychology:</b> PR: PSY 2012 and PPE 3003 and consent of Honors. Classification, causation, and treatment of deviant patterns of behavior. With Honors content. <i>Spring.</i>	<b>COM 1000</b> COS-COMM      3(3,0) <b>Communication:</b> Basic factors affecting human interaction through communication, theories and models of communication. <i>Fall, Spring.</i>
<b>CJT 3803</b> HPA-CJ/LS      3(3,0) <b>Security Management:</b> 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. <i>Occasional.</i>	<b>CLP 3184</b> COS-PSYCH      3(3,0) <b>Women's Mental Health:</b> 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. <i>Occasional.</i>	<b>COM 2347C</b> COS-COMM      1(1,1) <b>Sports Speaking and Interviewing:</b> PR: SPC 1600. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U. <i>Occasional.</i>
<b>CJT 3804</b> HPA-CJ/LS      3(3,0) <b>Security Administration:</b> 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. <i>Occasional.</i>	<b>CLP 3302</b> COS-PSYCH      3(3,0) <b>Clinical Psychology:</b> PR: PPE 3003 and CLP 3143. An overview of approaches to psychopathology, methods of clinical assessment, and various approaches to individual and group counseling. <i>Fall, Spring.</i>	<b>COM 3011C</b> COS-COMM      3(1,2) <b>Communication and Human Relations:</b> PR: or CR: COM 3311. Semantics; symbols and meaning and their relationship with human behavior. <i>Fall, Spring.</i>
<b>CJT 3819</b> HPA-CJ/LS      3(3,0) <b>Physical Security:</b> PR: C.J. major or minor or C.I./CCJ 3024. Concepts and procedures for the development, implementation, and management of a physical security program and its application to assets protection. <i>Occasional.</i>	<b>CLP 3413</b> COS-PSYCH      3(3,0) <b>Contemporary Behavior Therapy:</b> 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. <i>Occasional.</i>	<b>COM 3013</b> COS-COMM      3(3,0) <b>Communication and the Family:</b> PR: SPC 1600. The ways members of a family unit interact verbally and nonverbally to influence one another. <i>Even Fall.</i>
<b>CJT 3821</b> HPA-CJ/LS      3(3,0) <b>Practical Security Applications:</b> An examination of basic security principles applied to practical specific security situations encountered in the Central Florida area. <i>Occasional.</i>	<b>CLP 3467C</b> COS-PSYCH      3(2,2) <b>Interpersonal Effectiveness and Group Psychotherapy:</b> PR: PSY 2012. Psychological aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth. <i>Occasional.</i>	<b>COM 3110</b> COS-COMM      3(3,0) <b>Business and Professional Communication:</b> PR: Majors only, SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and professions. <i>Fall, Spring.</i>
<b>CJT 3842</b> HPA-CJ/LS      3(3,0) <b>Special Security Problems:</b> Review and application of basic security principles to retail security, transportation/cargo security, utility security, computer security, and other special security situations. <i>Occasional.</i>	<b>CLP 4134</b> COS-PSYCH      3(3,0) <b>Childhood Psychopathology:</b> PR: PSY 2012, CLP 3143, DEP 2004, PPE 3003. An in-depth survey of the prevalence, classification, symptoms, diagnosis, consequences, and treatments of disorders of infancy, childhood, and adolescence. <i>Fall, Odd Spring.</i>	<b>COM 3110H</b> COS-COMM      3(3,0) <b>Honors Business and Professional Communication:</b> PR: Majors only, SPC 1600 or C.I. and consent of Honors. Theoretical and practical training in effective presentational speaking for business and professions. With Honors content. <i>Occasional.</i>

## UCF Courses and Descriptions

COM 3120	COS-COMM	3(3,0)	COP 3402	ECS-CS	3(3,0)	COP 4521	ECS-CS	3(3,0)
<b>Organizational Communication:</b> PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies. <i>Fall, Spring.</i>			<b>Systems Software:</b> PR: COP 3502C. Design and development of assemblers, linkers, loaders, and compilers. Study memory hierarchy, program performance, and system level I/O. <i>Fall, Spring.</i>			<b>Projects in Parallel and Distribution Processing:</b> PR: COP 4520. Research and projects related to emerging architectures, computational models, languages and environments for parallel and distributed computation. <i>Occasional.</i>		
COM 3311	COS-COMM	3(3,0)	COP 3502C	ECS-CS	3(3,0)	COP 4600	ECS-CS	3(3,0)
<b>Communication Research Methods:</b> PR: STA 2014C. Research methods used in communication. Understanding and interpretation of original research emphasized. <i>Fall, Spring.</i>			<b>Computer Science I:</b> PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion. <i>Fall, Spring.</i>			<b>Operating Systems:</b> PR: COP 3402 and COP 3503C and COT 3100C. The goal of the course is to teach the function and organization of operating systems, process management, virtual memory, I/O management, and file management. <i>Fall, Spring.</i>		
COM 3330	COS-COMM	3(3,0)	COP 3502H	ECS-CS	3(3,0)	COP 4600H	ECS-CS	3(3,0)
<b>Computer Mediated Communication:</b> PR: CGS 1060C. Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations. <i>Even Spring.</i>			<b>Honors Computer Science I:</b> PR: Permission of Honors and COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion. <i>Occasional.</i>			<b>Honors Operating Systems:</b> PR: Permission of Honors and COP 3402 and COP 3530C. Same as COP 4600 with Honors level content. <i>Occasional.</i>		
COM 3332	COS-COMM	3(3,0)	COP 3503C	ECS-CS	4(3,1)	COP 4610L	ECS-CS	3(0,3)
<b>Communication, Technology, and Change:</b> PR: SPC 1600. How new technologies influence (and are influenced by) communication in a variety of contexts, including organization and interpersonal settings. <i>Spring.</i>			<b>Computer Science II:</b> PR: COP 3502C and COT 3100C. Algorithm design and analysis for tree, list, set, and graph data models; algorithmic strategies and applications, and algorithmic complexity analysis; sorting and searching; practical applications. <i>Fall, Spring.</i>			<b>Operating Systems Laboratory:</b> PR: COP 3503C. CR: EEL 4882. 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. <i>Fall, Spring.</i>		
COM 3406	COS-COMM	3(3,0)	COP 3503H	ECS-CS	3(3,0)	COP 4710	ECS-CS	3(3,0)
<b>Role of Motivation in Communication:</b> PR: COM 3311. Motivation theories that directly affect the process of human communication. <i>Occasional.</i>			<b>Honors Computer Science II:</b> 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. <i>Occasional.</i>			<b>Database Systems:</b> PR: COP 3503C. Storage and access Structures, database models and languages, related database design, and implementation techniques for database management systems. <i>Fall, Spring.</i>		
COM 4014	COS-COMM	3(3,0)	COP 3530C	ECS-CS	3(3,0)	COP 4910	ECS-CS	3(3,0)
<b>Gender Issues in Communication:</b> 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. <i>Occasional.</i>			<b>Computer Science III:</b> PR: COT 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. <i>Occasional.</i>			<b>Frontiers in Information Technology:</b> 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. <i>Fall, Spring.</i>		
COM 4461	COS-COMM	3(3,0)	COP 4020	ECS-CS	3(3,0)	COP 5021	ECS-CS	3(3,0)
<b>Intercultural Communication:</b> Study of variables affecting messages and participants in intercultural contexts. <i>Fall, Even Spring.</i>			<b>Programming Languages I:</b> PR: COP 3503C and COT 3960. Paradigms and fundamental concepts of programming languages are presented, including: scope, binding, abstraction, encapsulation, typing etc. Design paradigms object-oriented, functional and logic programming are presented. <i>Fall, Spring.</i>			<b>Program Analysis:</b> PR: COP 4020 and COT 4210. Syntactic and Semantic analysis of programs. Theoretical and practical limitations, attribute evaluation, data flow analysis, program optimization, intermediate representations code generation. Tools to automate analysis. <i>Occasional.</i>		
COM 4462	COS-COMM	3(3,0)	COP 4020H	ECS-CS	3(3,0)	COP 5537	ECS-CS	3(3,0)
<b>Conflict Management:</b> PR: COM 3311. The study of communication in everyday conflicts. <i>Fall, Spring.</i>			<b>Honors Programming Languages I:</b> 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. <i>Occasional.</i>			<b>Network Optimization:</b> Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportation, web and other applications. <i>Fall.</i>		
COP 2200	ECS-CS	3(3,0)	COP 4331C	ECS-CS	4(3,1)	COP 5611	ECS-CS	3(3,0)
<b>Computer Programming:</b> 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. <i>Occasional.</i>			<b>Processes for Object-Oriented Software Development:</b> PR: COT 3960 (Foundation Exam) and COP 3503C. Concepts, principles, processes and methods for developing large software systems featuring a team project in discrete-event simulation using object-oriented design in UML and implementation in C++. <i>Occasional.</i>			<b>Operating Systems Design Principles:</b> 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. <i>Spring.</i>		
COP 2500C	ECS-CS	4(3,1)	COP 4516C	ECS-CS	3(1,3)	COP 5711	ECS-CS	3(3,0)
<b>Concepts in Computer Science:</b> Fundamental concepts in program design, data structures, algorithms, analysis and a survey of topics in CS. Not open to Computer Science majors. <i>Fall, Spring.</i>			<b>Problem Solving Techniques and Team Dynamics:</b> PR: COP 3530C. Design and implement solutions to problems requiring the applications of the different algorithms. Team project format. <i>Even Spring.</i>			<b>Parallel and Distributed Database Systems:</b> PR: COP 4710. Storage manager, implementation techniques for parallel DBMSs, distributed DBMS architectures, distributed database design, query processing, multidatabase systems. <i>Occasional.</i>		
COP 3223	ECS-CS	3(3,0)	COP 4520	ECS-CS	3(3,0)	COT 3100C	ECS-CS	3(3,1)
<b>Introduction to Programming with C:</b> Equivalent to EGN 3211. Programming in C including arrays, pointer manipulation and use of standard C math and IO libraries. <i>Fall, Spring.</i>			<b>Concepts of Parallel and Distributed Processing:</b> PR: COP 3402 and COP 3503C and COT 3960. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms. <i>Occasional.</i>			<b>Introduction to Discrete Structures:</b> PR: MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphics, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity. <i>Fall, Spring.</i>		
COP 3330	ECS-CS	3(3,0)						
<b>Object Oriented Programming:</b> PR: COP 3223. Object oriented programming concepts (classes, objects, methods, encapsulating, inheritance, interfaces) and the expression of these concepts in the programming languages such as JAVA. <i>Fall, Spring.</i>								
COP 3346	ECS-CS	3(3,0)						
<b>Unix Programming:</b> PR: Knowledge of a high level language. Unix file system, shells, shell programming, filters and program development in Unix. <i>Occasional.</i>								



## UCF Courses and Descriptions

<b>COT 3100H</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Honors Introduction to Discrete Structures:</b> PR: Permission of Honors and MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphics, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity. <i>Occasional.</i>	<b>CPO 3103</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Comparative Politics:</b> 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. <i>Spring.</i>	<b>CPO 4553</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Politics of Japan:</b> PR: POS 2041 or CPO 3103 or C.I. Evolution of the Japanese political system and how domestic and international politics influence the functioning of the Japanese economy. <i>Fall.</i>
<b>COT 3960</b> <b>ECS-CS</b> <b>0(1,0)</b> <b>CS Foundation Exam:</b> PR: COP 3502C AND COT 3100C. Foundation examination for computer science majors. Required before taking COP 3530C, and COP 3402C and other 4000 level courses. Graded S/U. <i>Occasional.</i>	<b>CPO 3104</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Politics of Western Europe:</b> PR: POS 2041 or C.I. An examination of the political and economic dynamics of Western Europe in the post-1945 era. <i>Old Spring.</i>	<b>CPO 4643</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Government and Politics of Russia:</b> Study of the origins, institutions, and functioning of the Russian system, including the lingering influence of the old order on domestic and foreign policy. <i>Occasional.</i>
<b>COT 4110</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Tools for Algorithm Analysis:</b> PR: COP 3530C and COT 3100C. Tools from discrete and continuous mathematics for analyzing complexity of algorithms. Order notation use and manipulation. <i>Occasional.</i>	<b>CPO 3132</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Canadian Studies:</b> A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy. <i>Occasional.</i>	<b>CPO 4710</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Women in Comparative Politics:</b> PR: Junior standing or C.I. A cross-national perspective on women and politics; how women behave politically in various political and economic contexts. <i>Occasional.</i>
<b>COT 4210</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Discrete Structures II:</b> PR: COP 3503C and COT 3960. Computation Theory. A study of the properties of grammars and automata as formal specifications for algorithms and families of languages. <i>Fall, Spring.</i>	<b>CPO 3403</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Politics of the Middle East:</b> PR: POS 2041 or C.I. An examination of the dynamics of Middle East politics, including both regional and international dimensions. <i>Even Fall, Spring.</i>	<b>CPO 4754</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Comparative Political Institutions:</b> 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. <i>Occasional.</i>
<b>COT 4500</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Numerical Calculus:</b> PR: MAC 2312 and COP 3502C. Numerical methods for finding roots of nonlinear equations, solutions of systems of linear equations, and ordinary differential equations. <i>Occasional.</i>	<b>CPO 3403H</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Honors Politics of the Middle East:</b> PR: Permission of Honors. An examination of the dynamics of Middle East politics, including both regional and international dimensions. Honors level content. <i>Occasional.</i>	<b>CPO 4784</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Political and Economic Inequality in Comparative Perspective:</b> 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. <i>Occasional.</i>
<b>COT 4810</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Topics in Computer Science:</b> PR: COP 3402 and COP 3503C and COT 3960. A range of topics from the field of Computer science; application of oral and written communication skills; social, ethical and moral issues of computing. <i>Fall, Spring.</i>	<b>CPO 3614</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Politics of Eastern Europe:</b> PR: POS 2041 or C.I. An examination of the political and economic dynamics of Eastern Europe in the post-1945 era. <i>Occasional.</i>	<b>CPO 5334</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Contemporary Politics of the Mayan Region:</b> 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. <i>Occasional.</i>
<b>COT 5310</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Formal Languages and Automata Theory:</b> PR: COP 4020 and COT 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. LR(K) grammars. <i>Fall, Spring.</i>	<b>CPO 4047</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Politics of the NAFTA Region:</b> PR: POS 2041 or C.I. Contemporary politics of the NAFTA region, analyzing important political and socio-economic issues. <i>Occasional.</i>	<b>CRW 2100</b> <b>CAH-ENG</b> <b>3(3,0)</b> <b>Fiction Writing:</b> PR: CRW 3013. English majors in creative writing specialize in fiction writing; advanced group analysis and criticism of work produced by individual students. <i>Occasional.</i>
<b>COT 5405</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Design and Analysis of Algorithms:</b> PR: COT 4210 and COT 4110. Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis. <i>Fall, Spring.</i>	<b>CPO 4062</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Comparative Judicial Process:</b> Study of courts and judges in cross national context. Focus upon judicial recruitment, decisional patterns, and policy outcomes. <i>Occasional.</i>	<b>CRW 2300</b> <b>CAH-ENG</b> <b>3(3,0)</b> <b>Theory and Practice of Poetry Writing:</b> PR: CRW 3013, English or English Education major, Junior standing, or C.I. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism. <i>Occasional.</i>
<b>COT 5507</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Computational Methods/Applications:</b> PR: COT 4500. Computational solution techniques for algebraic equations, ODE and PDE Models of applications selected from science, engineering, applied mathematics, and computer science. <i>Occasional.</i>	<b>CPO 4101</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Politics of the European Union:</b> PR: POS 2041 or C.I. Evolution of the European Union, theories of the EU and EU institutions and policies from a comparative perspective. <i>Spring.</i>	<b>CRW 3010H</b> <b>CAH-ENG</b> <b>3(3,0)</b> <b>Honors Creative Writing:</b> 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. <i>Occasional.</i>
<b>COT 5510</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Computational Methods/Linear Systems:</b> 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. <i>Occasional.</i>	<b>CPO 4123</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Government and Politics of Great Britain:</b> A survey of British government, society, politics and institutions, emphasizing parliamentary traditions. Britain's foreign policy and European role will be discussed. <i>Even Spring.</i>	<b>CRW 3011</b> <b>CAH-ENG</b> <b>3(3,0)</b> <b>Creative Writing for Non-Majors:</b> PR: ENC 1102. The techniques of literary genres; the practice and critique of original work by peers; critical reading of established authors. Designed for non-majors. Not open to students with credit in CRW 3013. <i>Fall, Spring.</i>
<b>COT 5520</b> <b>ECS-CS</b> <b>3(3,0)</b> <b>Computational Geometry:</b> CR: COT 5405. Geometric searching, point location, convex hulls, proximity problems, Voronoi diagrams, spanning trees, triangulation, intersection arrangement applications. <i>Occasional.</i>	<b>CPO 4303</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Comparative Latin American Politics:</b> Comparative analysis of politics, society and culture in Latin America and selected countries of the region. <i>Even Fall.</i>	<b>CRW 3013</b> <b>CAH-ENG</b> <b>3(3,0)</b> <b>Creative Writing for English Majors:</b> PR: English or English Education major, Junior standing, or C.I., and C (2.0) or better required in ENC 1102. Not open to students with credit in CRW 3011. Literary genres; practice and critique of peer writing; critical reading of established authors. <i>Fall, Spring.</i>
<b>CPO 3034</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Politics of Developing Areas:</b> Comparative analysis of theories, problems and politics of development in Third World nations. <i>Even Fall.</i>	<b>CPO 4445</b> <b>COS-POLS</b> <b>3(3,0)</b> <b>Comparative Political Parties:</b> 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. <i>Even Fall.</i>	

# UCF Courses and Descriptions

<p><b>CRW 3120</b> CAH-ENG 3(3,0)  <b>Fiction Writing Workshop:</b> PR: Junior standing, and C (2.0) or better required in ENC 1102 and (CRW 2100 or CRW 3013). An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory. <i>Fall, Spring.</i></p>	<p><b>CRW 4320</b> CAH-ENG 3(3,0)  <b>Advanced Poetry Writing Workshop:</b> PR: Grade of C (2.0) or better required in 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. <i>Fall, Spring.</i></p>	<p><b>CWR 5205</b> ECS-CEE 3(3,0)  <b>Hydraulic Engineering:</b> PR: CWR 4101C and CWR 4203C. Concepts of fluid mechanics and hydrodynamics applied to natural and man-made flow of intent to civil and environmental engineering. <i>Occasional.</i></p>
<p><b>CRW 3211</b> CAH-ENG 3(3,0)  <b>Creative Nonfiction Writing:</b> PR: English or English Ed major or C.I., and C (2.0) or better required in CRW 3013. Writers present original nonfiction writing for class response and individual conferences. Close reading of key works of creative nonfiction with discussion of definitions of the genre. <i>Fall, Spring.</i></p>	<p><b>CRW 4616</b> CAH-ENG 3(3,0)  <b>Advanced Scriptwriting Workshop:</b> PR: CRW 3610. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. May be repeated for credit. <i>Occasional.</i></p>	<p><b>CWR 5515</b> ECS-CEE 3(3,0)  <b>Numerical Methods in Civil &amp; Environmental Engineering:</b> PR: CWR 4101C, CWR 4203C. This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications. <i>Occasional.</i></p>
<p><b>CRW 3310</b> CAH-ENG 3(3,0)  <b>Poetry Writing Workshop:</b> PR: Grade of C (2.0) or better required in ENC 1102 and CRW 2300 or CRW 3013. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory. <i>Fall, Spring.</i></p>	<p><b>CRW 4804</b> CAH-ENG 3(3,0)  <b>Creative Writing in the Community:</b> PR: Junior standing and CRW 3310 or CRW 3120 or CRW 3211. Teaching creative writing to community groups through service-learning. <i>Occasional.</i></p>	<p><b>CWR 5545</b> ECS-CEE 3(3,0)  <b>Water Resources Engineering:</b> 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. <i>Occasional.</i></p>
<p><b>CRW 3311</b> CAH-ENG 3(3,0)  <b>Structure of Verse:</b> PR: Grade of C (2.0) or better required in ENC 1102. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, scansion, and poetic rhetorical devices. <i>Occasional.</i></p>	<p><b>CRW 5020</b> CAH-ENG 3(3,0)  <b>Graduate Writing Workshop:</b> 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. <i>Fall, Odd Spring.</i></p>	<p><b>DAA 2100C</b> CAH-THEA 2(2,1)  <b>Modern Dance I:</b> PR: Theatre major, Dance minor, or department consent. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures. <i>Spring.</i></p>
<p><b>CRW 3540</b> CAH-ENG 3(3,0)  <b>Literary Magazines:</b> PR: Grade of C (2.0) or better required in CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature. <i>Occasional.</i></p>	<p><b>CRW 5130</b> CAH-ENG 3(3,0)  <b>Form and Theory in Creative Writing:</b> 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. <i>Occasional.</i></p>	<p><b>DAA 2101C</b> CAH-THEA 2(2,1)  <b>Modern Dance II:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C and DAA 2200C. Intermediate exploration of form, style, and technique in creative movement, including practical class work and history lectures. <i>Fall.</i></p>
<p><b>CRW 3610</b> CAH-ENG 3(3,0)  <b>Writing Scripts:</b> PR: Grade of C (2.0) or better required in CRW 3013 or C.I. Theory and practice of writing scripts for film and TV. <i>Fall, Spring.</i></p>	<p><b>CRW 5932</b> CAH-ENG 3(2,1)  <b>Teaching Creative Writing:</b> PR: Graduate status or senior standing or C.I. Creative writing practicum. May be repeated for credit. <i>Fall.</i></p>	<p><b>DAA 2200C</b> CAH-THEA 2(2,1)  <b>Ballet I:</b> PR: Theatre major, Dance minor, or department consent. Fundamentals of classical ballet; includes practical dance work as well as dance history lectures. <i>Fall.</i></p>
<p><b>CRW 4014</b> CAH-ENG 3(3,0)  <b>The Writing Life: Writers' Fictions and Practices:</b> PR: CRW 2100, CRW 2300 or CRW 3211. Critical/non-fiction/craft works and fictional works by a series of authors. <i>Occasional.</i></p>	<p><b>CRW 5948C</b> CAH-ENG 3(2,1)  <b>Creative Writing Service Learning:</b> PR: Graduate Standing or C.I. On-site experience leading and sharing creative writing in community settings. May be repeated for credit 2 times. <i>Occasional.</i></p>	<p><b>DAA 2201C</b> CAH-THEA 2(2,1)  <b>Ballet II:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Intermediate classical ballet technique, including principles, theory, and practice technique. <i>Spring.</i></p>
<p><b>CRW 4114</b> CAH-ENG 3(3,0)  <b>History of Prose Style:</b> PR: Grade of C (2.0) or better required in ENC 1102. A review of English prose style from 1611 to 1960. <i>Occasional.</i></p>	<p><b>CWR 3201</b> ECS-CEE 3(3,0)  <b>Engineering Fluid Mechanics:</b> PR: MAP 2302, CR: EGN 3343. Fundamentals of fluid mechanics with hydraulic applications: fluid properties, hydrostatics, dimensional analysis, energy, momentum, continuity, and steady flow. <i>Fall, Spring.</i></p>	<p><b>DAA 2393C</b> CAH-THEA 2(2,1)  <b>World Dance:</b> PR: Theatre major, Dance minor, or department consent. Theory and applied technique of world dance. Semester focus will be devoted to one form, such as African dance, Flamenco, Irish dance, Indian dance, or other. May be repeated for credit. <i>Occasional.</i></p>
<p><b>CRW 4122</b> CAH-ENG 3(3,0)  <b>Advanced Fiction Writing Workshop:</b> PR: Grade of C (2.0) or better required in CRW 3120. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit. <i>Fall, Spring.</i></p>	<p><b>CWR 4101C</b> ECS-CEE 3(2,2)  <b>Hydrology:</b> PR: STA 3032; CWR 3201. Hydrological cycle, probabilistic forecasting, rainfall excess meteorology, groundwater, storm-water runoff, flood routing and design applications. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>DAA 2520C</b> CAH-THEA 2(2,1)  <b>Tap Dance I:</b> PR: Theatre major, Dance minor, or departmental consent. Form, style, and technique in the basic fundamental movements of tap dance. <i>Fall.</i></p>
<p><b>CRW 4123</b> CAH-ENG 3(3,0)  <b>Science Fiction Writing:</b> PR: CRW 3013. Study of science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments. <i>Occasional.</i></p>	<p><b>CWR 4203C</b> ECS-CEE 3(2,2)  <b>Hydraulics:</b> PR: CWR 3201 Continuation of CWR 3201 with emphasis on piping networks, pumps, and hydraulic systems. Laboratories with civil and environmental engineering applications. <i>Fall, Spring.</i> M&amp;S fee: \$20.00</p>	<p><b>DAA 2521C</b> CAH-THEA 2(2,1)  <b>Tap Dance II:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2520C. Intermediate exploration of form, style, and technique of tap dance. <i>Spring.</i></p>
<p><b>CRW 4224</b> CAH-ENG 3(3,0)  <b>Advanced Nonfiction Workshop:</b> PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit. <i>Fall, Spring.</i></p>	<p><b>CWR 4812C</b> ECS-CEE 3(2,2)  <b>Water Resources Design:</b> PR: CWR 4101C; CWR 4203C. Project course for the design of storm water and sewer transmission systems using local and state regulations. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>DAA 2540</b> CAH-THEA 3(2,2)  <b>Dance Technique I:</b> PR: or CR:THE 2020 or THE 2020 or departmental consent. The study and application of fundamental dance techniques as they relate to musical theatre dance styles. <i>Occasional.</i></p>
	<p><b>CWR 5125</b> ECS-CEE 3(3,0)  <b>Groundwater Hydrology:</b> PR: CWR 4203C or equivalent. Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations. <i>Occasional.</i></p>	<p><b>DAA 2570C</b> CAH-THEA 2(2,1)  <b>Jazz Dance I:</b> PR: DAA 2200C, and Theatre major, or Dance minor, or department consent. Basic movements of American Jazz dance, including practical class work and Jazz dance history. <i>Fall, Spring.</i></p>

## UCF Courses and Descriptions

<b>DAA 2571C</b> <b>CAH-THEA</b> <b>2(2,1)</b> <b>Jazz Dance II:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2570C. Intermediate Jazz dance using theory and practice in jazz technique. <i>Spring.</i>	<b>DEP 2004H</b> <b>COS-PSYCH</b> <b>3(3,0)</b> <b>Honors Developmental Psychology:</b> PR: PSY 2012 and consent of Honors. Genetic, psychological, maturational, and social factors on behavior throughout the life cycle. With Honors content. <i>Fall.</i>	<b>DIG 3355</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Artificial Environments and Effects:</b> PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Design, manipulation to convey a story, thought, and concept in visual medium. New imagery in motion such as non-character entities, music videos, and scientific visualization. <i>Odd Fall.</i>
<b>DAA 2610</b> <b>CAH-THEA</b> <b>3(3,0)</b> <b>Dance Improvisation/Composition I:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C. Fundamental study and exploration of dance composition. <i>Spring.</i>	<b>DEP 3202</b> <b>COS-PSYCH</b> <b>3(3,0)</b> <b>Psychology of Exceptional Children:</b> PR: PSY 2012. Psychological problems of exceptional children, including diagnosis, associated emotional problems, effects of institutionalization, special class placement, attitudes, and appropriate intervention methods. <i>Occasional.</i>	<b>DIG 3362</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Artificial Characters:</b> PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes, techniques for design and manipulation of artificial characters to convey story, thought, or concept in a visual medium. <i>Odd Fall.</i>
<b>DAA 2640</b> <b>CAH-THEA</b> <b>3(2,2)</b> <b>Theatre Dance Choreography and Performance:</b> PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit. <i>Occasional.</i>	<b>DEP 3464</b> <b>COS-PSYCH</b> <b>3(3,0)</b> <b>Psychology of Aging:</b> PR: PSY 2012. An examination of basic psychological processes related to the aging process, with emphasis on the applied implications of changes in perceptual-motor, social emotional and cognitive-intellectual functioning. <i>Occasional.</i>	<b>DIG 3430</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Visual Storytelling and Visual Development:</b> PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes and techniques to transform story concepts into a producible visual experience. <i>Odd Fall.</i>
<b>DAA 3102C</b> <b>CAH-THEA</b> <b>2(2,1)</b> <b>Modern Dance III:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2101C. Advanced exploration of form, style, and technique in creative movement. May be repeated for credit. <i>Spring.</i>	<b>DEP 5057</b> <b>COS-PSYCH</b> <b>3(3,0)</b> <b>Developmental Psychology:</b> PR: Graduate status or senior standing or C.I. Psychological aspects of development including intellectual, social, and personality factors. <i>Spring.</i>	<b>DIG 3450C</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Interactive Performance I:</b> PR: Admission by audition only. Digital Media, Theatre majors, or CI. Techniques of interactive acting, with emphasis on interpersonal awareness and audience facilitation. <i>Fall, Spring.</i>
<b>DAA 3202C</b> <b>CAH-THEA</b> <b>2(2,1)</b> <b>Ballet III:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2201C. Advanced classical ballet technique, including principles, theory, and practice technique. May be repeated for credit. <i>Fall.</i>	<b>DIG 2000</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Introduction to Digital Media:</b> 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. <i>Occasional.</i>	<b>DIG 3480C</b> <b>CAH-DIG</b> <b>4(2,2)</b> <b>Computer as a Medium:</b> PR: DIG 2000. Not for credit for those who have had ART 2300C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and illustrator software to draw from still life arrangements. <i>Occasional.</i>
<b>DAA 3502C</b> <b>CAH-THEA</b> <b>2(2,1)</b> <b>Jazz Dance III:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2571C. Advanced study of jazz dance, using theory and practice of jazz technique. May be repeated for credit. <i>Fall.</i>	<b>DIG 3001</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Digital Media Principles:</b> PR: MAC 1105. Principles, development and prospects for Digital Media; focuses on Internet and Web Page construction. <i>Odd Fall, Even Spring.</i>	<b>DIG 3485</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Visual Language of the Moving Image:</b> PR: DIG 3001 or FIL 1007, and a minimum grade of "B" (3.0) or better in DIG 3001 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. <i>Fall, Spring.</i>
<b>DAA 3524C</b> <b>CAH-THEA</b> <b>2(2,1)</b> <b>Tap Dance III:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2521C. Advanced exploration of form, style, and technique of tap dance. May be repeated for credit. <i>Fall.</i>	<b>DIG 3035L</b> <b>CAH-DIG</b> <b>1(0,3)</b> <b>Digital Media Service I:</b> PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. <i>Fall, Spring.</i>	<b>DIG 3524</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>The Production Process:</b> PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Production in a visual medium from narrative idea to finished artifact. <i>Odd Fall.</i>
<b>DAA 3645</b> <b>CAH-THEA</b> <b>2(0, VAR)</b> <b>Choreography Practicum:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C. Student practice in choreographing a concert dance work for public performance. May be repeated for credit 4 times. <i>Spring.</i>	<b>DIG 3135C</b> <b>CAH-DIG</b> <b>3(2,1)</b> <b>Digital Imagery:</b> PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Technical principles of digital photography and scanned image capture for use in video games, internet and interactive software. Project oriented. <i>Even Fall, Odd Spring.</i>	<b>DIG 3525</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Digital Media Production I:</b> PR: DIG 2000, GRA 2101C and a minimum grade of "B" (3.0) or better in DIG 3001. Media project planning, organization and execution; group dynamics. Software tools for project planning, scheduling and management. <i>Fall, Spring.</i>
<b>DAA 3680</b> <b>CAH-THEA</b> <b>1(0,10)</b> <b>Dance Performance:</b> PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Student performance in a concert dance work. Students must be registered in a dance technique class. May be repeated for credit. <i>Spring.</i>	<b>DIG 3153</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Writing for Digital Media:</b> PR: DIG 3001. Writing for digital technologies and the World Wide Web. <i>Fall, Spring.</i>	<b>DIG 3563</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Information Management and Authorship:</b> PR: DIG 3001. Information management relating to creation, storage, retrieval of assets and authoring of databases and file types. <i>Fall, Spring.</i>
<b>DAE 3370</b> <b>ED-TLP</b> <b>3(1,2)</b> <b>Dance and Rhythmics:</b> The development of skill proficiency and instructional strategies in rhythmics and dance techniques, and fundamental movement patterns for grades K-12. <i>Occasional.</i>	<b>DIG 3253</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Digital Media Audio:</b> PR: DIG 3001. Methodology and implementation of sound for multimedia systems, including audio recording and MIDI Composition techniques. <i>Fall, Spring.</i>	<b>DIG 3811</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>User-Centered Design:</b> PR: B or better in DIG 3001. The creation of media software and other human-system products by applying knowledge about cognition and behavior. <i>Fall, Spring.</i>
<b>DAN 3134</b> <b>CAH-THEA</b> <b>3(3,0)</b> <b>Dance History I:</b> PR: DAA 2200C or DAA 2520C or DAA 2570C or DAA 2393C, and Theatre major, Dance minor, or department consent. The roots, trends, and styles of dance from prehistory through the seventeenth century. <i>Fall.</i>	<b>DIG 3286C</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Assembling Digital Media:</b> PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Assembly and editing of images and sounds for use in interactive media. Project oriented. <i>Fall, Spring.</i>	<b>DIG 3821</b> <b>CAH-DIG</b> <b>3(3,0)</b> <b>Creative Digital Problem Solving:</b> PR: Minimum grade of "B" (3.0) or better in DIG 3001. Techniques for brainstorming to identify key problems and to discover creative solutions in the design of digital media and systems. Improvisational scenario development and analysis; case-based problem description techniques. <i>Fall, Spring.</i>
<b>DEP 2004</b> <b>COS-PSYCH</b> <b>3(3,0)</b> <b>Developmental Psychology:</b> PR: PSY 2012. The effects of genetic, psychological, maturational, and social factors on behavior throughout the life cycle. <i>Fall, Spring.</i>		

## UCF Courses and Descriptions

DIG 3855	CAH-DIG	3(3,0)	DIG 4486	CAH-DIG	3(3,0)	DIG 4716L	CAH-DIG	3(0,3)
<b>Converging Media:</b> PR: FIL 3625; Film or Digital Media major, and a minimum grade of "B" (3.0) or better in DIG 3001. Various technologies and strategies for creative storytelling on the Internet. <i>Even Spring.</i>			<b>Visual Language of Moving Image II:</b> PR: DIG 3485. The "mechanics" of Visual Language, in areas of characters, environment and effects. Emphasis on the acting of artificial characters for the purposes of storytelling. <i>Occasional.</i>			<b>Internet Interaction:</b> PR: DIG 2000 or CGS 3175 and a minimum grade of "B" (3.0) or better in DIG 3001 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying esthetic and scientific principles of user interface design. Project oriented. <i>Fall, Spring.</i>		
DIG 4204	CAH-DIG	3(3,0)	DIG 4522L	CAH-DIG	1(0,3)	DIG 4770	ECS-CS	3(3,0)
<b>Generating and Manipulating Digital Imagery:</b> PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Core techniques for creating and manipulating second and third digital representations. <i>Fall.</i>			<b>Digital Media Service II:</b> PR: DIG 3035L and a minimum grade of "B" (3.0) or better in DIG 3001. Continued participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. <i>Fall, Spring.</i>			<b>Building Virtual Worlds:</b> PR: COP 3530C or C.I. Design and construction of software for networked interactive learning environments, entertainment and communication systems. Tools for enabling dramatic, artistic and technical creativity. Project oriented. <i>Occasional.</i>		
DIG 4206C	CAH-DIG	4(3,3)	DIG 4523L	CAH-DIG	1(0,3)	DIG 4780	CAH-DIG	3(3,0)
<b>New Imagery in Motion Workshop:</b> PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of new approaches to visual communication, new narrative structures, new and emerging media. <i>Even Fall, Odd Spring.</i>			<b>Digital Media Service III:</b> PR: DIG 4522L and a minimum grade of "B" (3.0) or better in DIG 3001. Participation as a leader in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. <i>Even Fall, Spring.</i>			<b>Modeling for Realtime Graphics:</b> PR: DIG 4770, GRA 2101C or other computer graphics experience and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Principles of construction of 3D models for realtime applications; use of high performance CAD systems; level of detail management, efficiency vs. visual quality for video games and realtime simulation. <i>Odd Fall, Even Spring.</i>		
DIG 4323	CAH-DIG	3(3,0)	DIG 4524L	CAH-DIG	3(0,3)	DIG 4921C	CAH-DIG	3(2,2)
<b>Modeling for Visual Language:</b> PR: DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Constructing organic 3D models for non-realtime applications, operating high performance CAD systems, and using higher-order modeling techniques. Introduction to rigging and animation controls, materials, lighting and rendering. <i>Occasional.</i>			<b>Digital Media Project I:</b> PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Multidisciplinary students work with faculty and industry mentors to design and implement a project involving virtual reality, video game production, computer animation, or interaction with the theme park industry. <i>Odd Fall, Even Spring.</i>			<b>Media for e-Commerce I:</b> PR: DIG 2000 and (COP 2500C or COP 3502C) and a minimum grade of "B" (3.0) or better in DIG 3001. Media in support of electronic commerce on the Internet. Emphasis on the artistic and creative components supporting the business aspects of electronic commerce. Project oriented. <i>Odd Fall, Even Spring.</i>		
DIG 4324	CAH-DIG	3(3,0)	DIG 4526C	CAH-DIG	3(2,2)	DIG 4922	CAH-DIG	3(3,0)
<b>Modeling for Realtime Systems II:</b> PR: DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Advanced techniques for character animation, texture, lighting, rendering. Project oriented. <i>Fall, Even Spring.</i>			<b>Digital Media Production II:</b> PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I. <i>Fall, Even Spring.</i>			<b>Media for E-Commerce II:</b> PR: IDS 4688C and COP 3330 and a minimum grade of "B" (3.0) or better in DIG 3001. Server-side programming in Java to support media-rich E-Commerce applications. Project oriented. <i>Even Spring.</i>		
DIG 4325C	CAH-DIG	4(3,3)	DIG 4640	CAH-DIG	3(3,0)	DIG 4931	CAH-DIG	3(3,0)
<b>Look Modeling Workshop:</b> PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques, mechanics of designing, developing finished look emphasis on rendering, shading, texturing, and lighting. <i>Even Fall, Odd Spring.</i>			<b>Autonomous Media:</b> PR: IDS 3701C and a minimum grade of "B" (3.0) or better in DIG 3001. Applications of concepts derived from research on artificial intelligence, to media and the Internet. Project-based. <i>Occasional.</i>			<b>Cultural Byways:</b> PR: DIG 3525, DIG 3001. Development and implementation of historical and cultural video segments for digital media projects. <i>Occasional.</i>		
DIG 4326C	CAH-DIG	4(3,3)	DIG 4641	CAH-DIG	3(3,0)	DIG 5136C	CAH-DIG	3(1,3)
<b>Geometrical Modeling Workshop:</b> PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques and mechanics of designing and manipulating geometrical representations artificial characters and their environments; introduction to procedural models. <i>Odd Spring.</i>			<b>Creative Digital Devices:</b> PR: IDS 3701C and ART 2201C and a minimum grade of "B" (3.0) or better in DIG 3001. The physical construction and computer control of electro-mechanical devices, and the use of software libraries for controlling testbed hardware, for entertainment and creative applications. <i>Occasional.</i>			<b>Design for Media:</b> PR: Graduate standing and C.I. Theories and practices of interactive design for digital media content. <i>Fall.</i>		
DIG 4359C	CAH-DIG	4(3,3)	DIG 4645	ECS-CS	3(3,0)	DIG 5366	CAH-DIG	3(3,0)
<b>Artificial Environments and Effects Workshop:</b> PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of artificial environments, with emphasis on compositing, image processing, visual style, visual continuity. <i>Odd Spring.</i>			<b>Digital Media:</b> PR: COP 3530C or C.I. Information structures, algorithms and interactive tools for creation, compression, storage, indexing and transmission of multimedia (visual images, sound, tactile displays, etc.) Project-oriented. <i>Occasional.</i>			<b>Creating Interactive Characters:</b> PR: Admission to Digital Media M.S. or C.I. Survey of issues related to creating interactive characters. Topics will range from modeling humans to reviewing realistic human capabilities. Graded S/U. <i>Fall, Spring.</i>		
DIG 4369C	CAH-DIG	4(3,3)	DIG 4713C	CAH-DIG	3(2,2)	DIG 5550C	CAH-DIG	3(1,3)
<b>Artificial Characters Workshop:</b> PR: DIG 3362 and successful portfolio review, or C.I. Techniques and mechanics of artificial characters, with emphasis on attitude in action, personality of character expressions, and bringing characters to life. <i>Odd Spring.</i>			<b>Game Design:</b> PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Principles of design for interactive games and learning experiences. Psychology of play, storytelling, and character development. Project oriented. <i>Occasional.</i>			<b>Digital Media Development:</b> PR: DIG 5136C or C.I. Students will begin developing projects specified by design documents from Design for Media course. <i>Odd Fall.</i>		
DIG 4451C	CAH-DIG	4(3,3)	DIG 4715C	CAH-DIG	3(2,2)	DIG 5551C	CAH-DIG	3(1,3)
<b>Visual Storytelling and Visual Development Workshop:</b> PR: DIG 3430 and successful portfolio review, or C.I. Techniques, mechanics of visual development with emphasis on strong visual designs which communicate effectively. <i>Odd Spring.</i>			<b>Game Engines:</b> PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Principles of 3D interactive graphics and simulation as used in "game engines," software systems for building Internet or PC-based shared virtual worlds. Project oriented. <i>Fall, Spring.</i>			<b>Interactive Media Design:</b> PR: DIG 4716L and DIG 3286C or equivalent, or C.I. Interdisciplinary approach to design and construction of advanced interactive media, applying theory, aesthetic, and scientific principles of user interaction. Project and theory-based. <i>Even Spring.</i>		
DIG 4455C	CAH-DIG	3(3,0)				DIG 5565C	CAH-DIG	3(1,3)
<b>Interactive Performance II:</b> PR: DIG 3450C or C.I. Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure. <i>Even Fall, Spring.</i>						<b>Digital Asset Management Systems:</b> PR: Graduate standing or C.I. Structure and use of Digital Asset Management Systems (DAMS). Protection of intellectual property rights by encryption, water marking, steganography. Version and work process flow control systems. <i>Occasional.</i>		

**DIG 5627 CAH-DIG 3(3,0)**  
**Autonomous Characters:** PR: Graduate status or senior standing or C.I. Interdisciplinary study of autonomous characters-computer programs that mimic human behavior-in games, simulations and interactive literature. Formal models of strategy, tactics and actions. *Occasional.*

**DIG 5647 CAH-DIG 3(3,0)**  
**Science & Technology of Dynamic Media:** PR: Graduate status or senior standing or C.I. Key scientific, technical issues in interactive media. Information algorithms, objects, models. Theories of computer graphics, sound, modeling, simulation, interfacts, artificial intelligence. *Occasional.*

**DIG 5810 CAH-DIG 3(3,0)**  
**Ways of Seeing: Cultural and Technological Perspectives:** PR: Admission to Film and Digital Media masters program or C.I. Cultural and technological perspectives formed by the intersection of media and cultural studies, art history and criticism, and cinema studies. *Fall.*

**DIG 5835 CAH-DIG 3(3,0)**  
**Digital Forensics:** PR: CGS 5131 (Computer Forensics I) or C.I. Application of digital scientific techniques to solve information assurance, forensic and legal problems. *Occasional.*

**DIG 5950 CAH-DIG 3(3,0)**  
**Interactive Entertainment Capstone:** PR: Admission to Digital Media M.S. Prepare a product design document and technical design document for a production project. Graded SIU. *Fall, Spring.*

**DSC 4013 HPA-CJ/LS 3(3,0)**  
**Homeland Security and Criminal Justice:** PR: CCJ 3014 and CCJ 3024 or C.I. Analysis of homeland safety and security in contemporary society and government. *Occasional.*

**EAB 3703 COS-PSYCH 4(3,2)**  
**Principles of Behavior Modification:** PR: EXP 3404. An examination of the control of behavior through applications of principles and theories of learning. Examples are drawn from clinical and social psychology and from child rearing. Lecture/Practicum. *Fall.*

**EAB 3705C COS-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. *Occasional.*

**EAB 5765 COS-PSYCH 3(3,0)**  
**Applied Behavior Analysis with Children and Youth:** PR: DEP 5057 and EXP 5445, and graduate status or senior standing or C.I. Advanced survey of principles, procedures, and techniques of applied behavior analysis, with special attention to applications with children and youth. *Occasional.*

**EAS 3010 ECS-MMAE 3(3,0)**  
**Fundamentals of Aerospace Flight:** PR: Sophomore standing. Fundamental theories of inviscid, incompressible aerodynamics and flight mechanics; airfoil theory; external and internal flows; airplane performance. *Fall.*

**EAS 3101 ECS-MMAE 3(3,0)**  
**Fundamentals of Aerodynamics:** PR: EAS 3010. Viscous, incompressible fluid flow; flow over finite wings; aerodynamic design; introduction to computational fluid dynamics. *Spring.*

**EAS 3404C ECS-MMAE 3(2,3)**  
**Discrete Control in Aerospace Vehicles:** PR: EML 4312C. Discrete control aspects of Aerospace Vehicles. Digital controller, Design, State-Space Representation, Z-transform, system response. *Spring.* M&S fee: \$15.00

**EAS 3530 ECS-MMAE 3(3,0)**  
**Space Systems Concepts:** PR: EAS 3010, PHY 2049, and MAP 2302. Physical and engineering aspects of current space flights. Space nuclear propulsion and power. Design of spacecraft for space environment. Communication with spacecraft. Space-borne instrumentation. *Spring.*

**EAS 3800C ECS-MMAE 2(2,3)**  
**Aerospace Engineering Measurements:** PR: EGN 3343, CR: EGM 3601. Theory, calibration and use of instruments. Measurement techniques, data analysis, report writing. Laboratory topics related to aerospace engineering. *Fall.*

**EAS 3810C ECS-MMAE 2(1,3)**  
**Design of Aerospace Experiments:** PR: EAS 3800C and EAS 3010. Extension of EAS 3800C. Design of experiments in aeronautic/aerospace systems with emphasis on project team activity. *Spring.*

**EAS 4105 ECS-MMAE 3(3,0)**  
**Flight Mechanics:** PR: EAS 3101 and EML 4312C. Analysis and design of aircraft performance, static and dynamic stability and automatic control systems. *Fall.*

**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. *Fall.*

**EAS 4200 ECS-MMAE 3(3,0)**  
**Flight Structures:** PR: EGN 1006C, EGN 1007C, EGM 3601. Fundamental structural and dynamic design of aircraft and space vehicle components. Classical and finite element methods. *Fall.*

**EAS 4210C ECS-MMAE 3(3,2)**  
**Space Structural Dynamics:** PR: EGN 3321, EGM 3601 and EML 3034C. Analytical mechanics and linear system theory. Modern approach to control of lumped parameter systems. Review of space structure applications. Use of finite element methods. *Spring.*

**EAS 4300 ECS-MMAE 3(3,0)**  
**Aerothermodynamics of Propulsion Systems:** PR: EAS 4134 or EML 4703. Fundamental analysis and design considerations of propulsion systems. Turbojets, ramjets and rockets. *Spring.*

**EAS 4400 ECS-MMAE 3(3,0)**  
**Spacecraft Attitude Dynamics:** PR: EML 4312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters. *Occasional.*

**EAS 4505 ECS-MMAE 3(3,0)**  
**Orbital Mechanics:** PR: EGN 3321, MAP 2302. Two-body problem, orbital equations, orbital transfer, earth satellite operation. *Spring.*

**EAS 4700C ECS-MMAE 3(1,6)**  
**Aerospace Design I:** PR: EAS 3810C, CR: EML 4312C. Application of the design process to the team solution of a state-of-the-art problem. Airplanes and space vehicles, systems and devices are considered. *Fall, Spring.*

**EAS 4710C ECS-MMAE 3(1,6)**  
**Aerospace Design II:** PR: EAS 4700C. Continuation of the design process in the team building and testing of a prototype/model of an airplane, spacecraft, system or device. *Fall, Spring.* M&S fee: \$45.00

**EAS 5123 ECS-MMAE 3(3,0)**  
**Intermediate Aerodynamics:** PR: EAS 4134; CR: EML 5060. Aerodynamic characteristics of airfoils, finite wings, waves, wing-body combinations, viscous flow and flow instabilities. Airfoil design. *Occasional.*

**EAS 5157 ECS-MMAE 3(3,0)**  
**V/Stol Aerodynamics and Performance:** PR: EAS 4105; CR: EML 5060. Momentum theory, blade element theory, hover and forward flight, stability, aeroelasticity. *Occasional.*

**EAS 5302 ECS-MMAE 3(3,0)**  
**Direct Energy Conversion:** PR: EML 3101 and EML 4142. Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design. *Occasional.*

**EAS 5315 ECS-MMAE 3(3,0)**  
**Rocket Propulsion:** PR: EAS 4134 or EML 4703. Analysis and performance of rocket motors; selection and thermochemistry of chemical propellants: liquid and solid propellant rockets. *Occasional.*

**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. *Odd Spring.*

**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 interface requirements will be covered. *Occasional.*

**ECM 4504C ECS-ECE 4(3,3)**  
**Embedded Computer Systems:** PR: EEL 4768C, EEL 4851C, EEL 4635C. Computer Applications in Systems role, sensor and actuator interfacing. Design projects, including problem statements and specifications, design methodology, implementation, testing, and documentation. *Occasional.* M&S fee: \$12.00

**ECM 5135 ECS-ECE 3(3,0)**  
**Engineering Math Analysis I:** PR: MAP 2302. Topics in advanced engineering mathematics, including systems of differential equations, phase plane, linear algebra, and vector differential calculus. *Fall.*

**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. *Occasional.*

**ECO 2013 BA-ECON 3(3,0)**  
**Principles of Macroeconomics:** An introduction to macroeconomics, including an overview of the market economy; national income, employment, and price level determination, stabilization policies, and international economics. *Fall, Spring.*

**ECO 2013H BA-ECON 3(3,0)**  
**Honors Principles of Economics I:** PR: Permission of Honors. Same as ECO 2013 with honors-level content. *Fall, Spring.*

**ECO 2023 BA-ECON 3(3,0)**  
**Principles of Microeconomics:** The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. *Fall, Spring.*

# UCF Courses and Descriptions

ECO 2023H	BA-ECON	3(3,0)	ECO 3723	BA-ECON	3(3,0)	ECP 4302	BA-ECON	3(3,0)
<b>Honors Principles of Microeconomics:</b> PR: Permission of Honors. The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Honors content. <i>Occasional.</i>			<b>International Commercial Policy:</b> PR: ECO 2013 and ECO 2023. Presents the fundamentals of international commercial policy, with special emphasis on U.S. trade policy since WW II. <i>Spring.</i>			<b>Environmental and Natural Resource Economics:</b> PR: ECO 2013 and ECO 2023 or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the micro-economic and macroeconomic level. <i>Odd Fall.</i>		
ECO 3070	BA-ECON	1(1,0)	ECO 4303	BA-ECON	3(3,0)	ECP 4403	BA-ECON	3(3,0)
<b>Tutoring/Teaching Techniques for Undergraduate Economics:</b> PR: Satisfactory completion of same course the student is tutoring. Prepare undergraduate students to more effectively learn economics concepts through tutoring/teaching. May be repeated for credit up to 3 times. Graded S/U. <i>Fall, Spring.</i>			<b>History of Economic Thought:</b> PR: ECO 2013 and ECO 2023. A study of the principal ideas of the major contributors to the development of economic thought. <i>Occasional.</i>			<b>Industrial Organization and Game Theory:</b> 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. <i>Even Spring.</i>		
ECO 3101	BA-ECON	3(3,0)	ECO 4412	BA-ECON	3(3,0)	ECP 4703	BA-ECON	3(3,0)
<b>Intermediate Microeconomics:</b> PR: ECO 2013 and ECO 2023. Theoretical study of the behavior of households, firms, and the markets in which they operate with issues and applications. <i>Fall, Spring.</i>			<b>Econometrics:</b> PR: ECO 2013, ECO 2023 and ECO 3411. Concepts and methods of developing, analyzing, and interpreting measures of economic activity, and business and economic change. <i>Even Fall.</i>			<b>Managerial Economics:</b> PR: Junior standing, ACG 2071, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation. Open for non-majors ONLY. <i>Spring.</i>		
ECO 3203	BA-ECON	3(3,0)	ECO 4451	BA-ECON	3(3,0)	ECS 4013	BA-ECON	3(3,0)
<b>Intermediate Macroeconomics:</b> PR: ECO 2013 and ECO 2023. Measurement, analysis, and control of aggregate economic activity. <i>Fall, Spring.</i>			<b>Research Methods in Economics:</b> PR: ECO 3101, ECO 3203 and ECO 3411. Skills in data collection and creation, data analysis, and research presentation. <i>Fall, Spring.</i>			<b>Economics of Developing Areas:</b> PR: ECO 2013 and ECO 2023. The study of problems, theories, and issues of economic development with reference to the third world. <i>Spring.</i>		
ECO 3223	BA-ECON	3(3,0)	ECO 4504	BA-ECON	3(3,0)	ECS 4204	BA-ECON	3(3,0)
<b>Money and Banking:</b> PR: ECO 2013. Nature of money, commercial banking system, and monetary theory, and their relationship to the level of economic activity and activities of the Federal Reserve and U.S. Treasury. <i>Odd Spring.</i>			<b>Public Economics:</b> PR: ECO 2023. A study of fiscal institutions and decision-making, and how government budgetary policy (spending, taxing, borrowing, and debt management) affects the economy and its citizens. <i>Occasional.</i>			<b>The Economies of the Pacific Rim:</b> PR: ECO 2013 and ECO 2023. A study of the 'Asian Economic Miracle' examining the relationship between public policies, human resource development, and rapid shared growth. <i>Occasional.</i>		
ECO 3401	BA-ECON	3(3,0)	ECO 4701	BA-ECON	3(3,0)	ECS 4210	BA-ECON	3(3,0)
<b>Quantitative Business Tools I:</b> PR: ECO 2023, MAC 1105. Introduction to mathematical and statistical analysis of economics and business problems. <i>Fall, Spring.</i>			<b>Seminar in Global Economic Policy:</b> PR: ECO 2013 and ECO 2023. Interdependent nature of the global economy, its current economic problems and the different policy perspectives and their impact. <i>Occasional.</i>			<b>The Chinese Economy:</b> PR: ECO 2013, ECO 2023. Economic overview of contemporary China, and review of key issues facing the country. <i>Occasional.</i>		
ECO 3401H	BA-ECON	3(3,0)	ECO 4941	BA-ECON	3(3,0)	ECS 4303	BA-ECON	3(3,0)
<b>Honors: Quantitative Business Tools I:</b> PR: Economics major or minor, ECO 2023, MAC 1105, permission of honors. Same as ECO 3401 with Honors level content. <i>Occasional.</i>			<b>Economics Internship:</b> PR: Consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U. <i>Occasional.</i>			<b>Economics of European Integration:</b> PR: ECO 2013 and ECO 2023. Presents the development of the European Community, with emphasis on the characteristics of the Single European Act (EC '92). <i>Occasional.</i>		
ECO 3402	BA-ECON	3(3,0)	ECO 5005	BA-ECON	3(3,0)	ECS 4442H	BA-ECON	3(3,0)
<b>Quantitative Economics Business Tools:</b> PR: Junior standing; ECO 2013, ECO 2023, and ECO 3401. Statistical Tools and Applications in Economics. <i>Occasional.</i>			<b>Economic Concepts:</b> PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis. <i>Occasional.</i>			<b>Honors Economic Development of Mexico and Central America:</b> PR: Permission of Honors and ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA. <i>Occasional.</i>		
ECO 3410	BA-ECON	3(3,0)	ECO 5006	BA-ECON	1.5(1.5,0)	EDE 3942	ED-TLP	3(3,0)
<b>Mathematical Economics:</b> PR: ECO 3401 or MAC 2233. Mathematical methods with particular focus on microeconomics foundations of individual decision-making. <i>Even Spring.</i>			<b>Economic Foundations:</b> PR: Acceptance to Graduate Study. Introduction to Micro and Macro Economic Analysis. <i>Fall, Spring.</i>			<b>Internship I:</b> PR: EDG 4323, RED 3012, MAE 2801, TSL 4080. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U. <i>Fall, Spring.</i>		
ECO 3411	BA-ECON	3(3,0)	ECO 5414	BA-ECON	1.5(1.5,0)	EDE 4943	ED-TLP	7-12(0,35)
<b>Quantitative Business Tools II:</b> PR: Junior standing and business major or minor, ECO 2013, ECO 2023, and ECO 3401. The use of statistical methods as scientific tools in the analysis of economics and business problems. <i>Fall, Spring.</i>			<b>Statistical Foundations:</b> PR: Acceptance to Graduate Study. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference. <i>Fall, Spring.</i>			<b>Internship II (Elementary):</b> PR: EDE 3942. Student teaching in an elementary school under the supervision of a certified classroom teacher. Scheduled concurrent seminars. Graded S/U. <i>Occasional.</i>		
ECO 3411H	BA-ECON	3(3,0)	ECP 3004	BA-ECON	3(3,0)	EDF 1075	ED-ES	3(3,0)
<b>Honors: Quantitative Business Tools II:</b> PR: ECO 3401, permission of honors. Same as ECO 3411 with Honors level content. <i>Occasional.</i>			<b>Seminar on Current Economic Topics:</b> PR: ECO 2013 and ECO 2023. Current economic problems and issues. Emphasis on the social and ethical aspects of economic policy and the interrelatedness of economic and non-economic activities. <i>Occasional.</i>			<b>Introduction to Educational Internship:</b> Introduction to educational internship with selected partnership institutions. <i>Occasional.</i>		
ECO 3703	BA-ECON	3(3,0)	ECP 3203	BA-ECON	3(3,0)	EDF 2005	ED-ES	3(3,0)
<b>International Trade:</b> PR: ECO 2013 and ECO 2023. Fundamental principles of international trade and foreign exchange, including the balance of payments and problems of foreign economic policy. <i>Fall.</i>			<b>Labor Economics:</b> PR: ECO 2013 and ECO 2023. The analysis of labor problems and issues in a dynamic contemporary economy through the interaction of the four major institutions: households, firms, government, and unions. <i>Occasional.</i>			<b>Introduction to Education:</b> 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. <i>Fall, Spring.</i>		
			ECP 3303	BA-ECON	3(3,0)			
			<b>Economics and the Environment:</b> PR: Sophomore standing, and ECO 2013 or ECO 2023. Analysis of environmental problems from an economic perspective, its relationship to other disciplines, and the international dimension of environmental policy. <i>Even Fall.</i>					

## UCF Courses and Descriptions

**EDF 2283** ED-ES 3(3,0)  
**Introduction to Applications of Technology in Education:** Classroom applications of instructional media including computers. *Occasional.*

**EDF 3120** ED-ES 3(3,0)  
**Observing Child Growth and Development:** PR: Admission to the program. Provides a comprehensive introduction to the principles and basic theories of child growth and development from pre-natal development through age eight. *Fall, Odd Spring.*

**EDF 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. *Even Spring.*

**EDF 3601** ED-ES 3(3,0)  
**Professional Ethics in Education:** Pedagogical knowledge, awareness of educational process and the analytical skills necessary for responsible public involvement in educational policy making. *Fall, Spring.*

**EDF 3740** ED-ES 3(3,0)  
**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. *Occasional.*

**EDF 4214** ED-ES 3(3,0)  
**Classroom Learning Principles:** PR: EDF 2005 and Junior standing or C.I. Principles of learning as applied to classroom teaching situations, with emphasis on student development, behavior, self-concept and motivation. *Fall, Spring.*

**EDF 4282** ED-ERTL 3(3,0)  
**Applications of Technology in Education:** Classroom applications of instructional media, including computers. Includes experiences with equipment, commercial and teacher-made media, and their uses. *Occasional.*

**EDF 4466** ED-ERTL 3(3,0)  
**Classroom Assessment & Evaluation Techniques:** PR: Completion of Internship I or C.I. Classroom measurement skills in designing traditional and alternative assessments, using results for student evaluation and instructor performance, and interpretation of standardized test results. Graded S/U. *Occasional.*

**EDF 4603** ED-ES 3(3,0)  
**Analysis of Critical Issues in Education:** PR: EDF 4214 or C.I. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact schooling in a democracy. *Fall, Spring.*

**EDF 5245** ED-ES 3(3,0)  
**Preparation and Management of Classroom Instruction:** PR: C.I. Study of strategies for instructional planning and classroom management that result in optimum learning. *Occasional.*

**EDF 5607** ED-ES 3(3,0)  
**Language, Culture and Pedagogy: Impact and Implications:** PR: C.I. Explores in-depth issues surrounding learning needs of students from linguistically and culturally diverse populations. Research on language, culture and pedagogy will be highlighted. *Occasional.*

**EDG 1005C** ED-ES 2(1,1)  
**Foundations of Leadership:** PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Education providing a foundation of leadership, scholarship, and service regarding disciplines in the college. *Fall, Spring.*

**EDG 2701** ED-ES 3(3,0)  
**Teaching Diverse Populations:** An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience. *Fall, Spring.*

**EDG 4323** ED-ES 3(3,0)  
**Professional Teaching Practices:** PR: EDF 2005 or C.I. Analysis of teaching strategies for K-12 settings, including higher order thinking, classroom management, alternative assessment and adaptation of instruction for diverse student populations. *Fall, Spring.*

**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. *Occasional.*

**EDG 4948** ED-ES 3(3,0)  
**Service Learning:** PR: PSY 2012 or C.I. Involvement with community agencies and/or schools to gain a new perspective about the central Florida community. May be repeated for credit. *Fall, Spring.*

**EDG 5745** ED-TLP 3(3,0)  
**Teaching the Non-English Student:** PR: C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language. *Occasional.*

**EDG 5941** ED-ES 2-8(0,11)  
**Clinical Practice:** PR: Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher. *Occasional.*

**EDH 5306** ECS-MMAE 1(1,0)  
**Teaching Methods in Engineering:** PR: graduate standing in an engineering discipline. This course will cover basis teaching pedagogy to help engineering students becomes better TA's and help students deliver better technical presentations. *Occasional.*

**EDS 5356** ED-ERTL 3(2,1)  
**Supervision of Professional Laboratory Experiences:** PR: C.I. Study of the undergraduate professional laboratory experiences program, with emphasis on the role and responsibilities of the Teacher Education Associate or Supervising Teacher. *Occasional.*

**EEC 2001** ED-CFCS 3(3,0)  
**Introduction to Early Childhood Education:** An overview of early childhood education and services for young children and their families. Includes historical roots, societal changes, program differentiation and future trends. *Occasional.*

**EEC 3214** ED-ES 3(3,0)  
**Early Childhood Education Learning Environment & Strategies:** PR: Admission to the program. Examines developmentally appropriate education materials, strategies, and environments for young children. Explores an integrated approach to curriculum planning and scheduling which emphasizes active learning. *Occasional.*

**EEC 3268** ED-CFCS 3(3,0)  
**Play Development:** Explores play development, facilitation, intervention and assessment. Designing play environments is emphasized. *Fall.*

**EEC 3301** ED-CFCS 3(3,0)  
**Active Learning Teaching Strategies:** Studies an integrated developmental-interactionist approach to curriculum planning and design. Equipment selection, room arrangements, daily schedules and active learning teaching strategies are emphasized. *Occasional.*

**EEC 3613** ED-CFCS 3(3,0)  
**Observation and Assessment of Young Children:** PR: Admission to the program. Appropriate methods for diagnosing, assessing, and evaluating young children, including children with diverse cultural and ethnic backgrounds. Appropriate interventions, remediations, and enrichment. *Occasional.*

**EEC 3700** ED-CFCS 3(3,0)  
**Social and Emotional Development of Young Children:** Provides an in-depth understanding of the social and emotional development of the young child. Examines the implication for curriculum development. *Occasional.*

**EEC 3940** ED-CFCS 3(0,3)  
**Integration Internship I:** PR: Senior Status; RED 4311 or RED 3310. Field based placement in which the students will have supervised practice integrating course content areas. *Occasional.*

**EEC 4266** ED-CFCS 3(3,0)  
**Early Intervention:** Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers. *Occasional.*

**EEC 4402** ED-CFCS 3(3,0)  
**Cultural and Family Systems:** Explores the institution of family in its cultural context as a living dynamic system. *Occasional.*

**EEC 4524** ED-CFCS 3(3,0)  
**Organization and Management in Early Childhood:** Provides students with managerial and supervisory skills required to administer a developmentally appropriate early childhood program. *Occasional.*

**EEC 4528** ED-CFCS 3(3,0)  
**Infant/Toddler Care and Education:** Provides the knowledge and skills that will enable the student to become a competent worker with very young children and their families. *Occasional.*

**EEC 4604** ED-CFCS 3(3,0)  
**Guidance of Young Children:** PR: EEC 3700. Provides students with techniques to guide the behavior of young children. *Occasional.*

**EEC 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. *Spring.*

**EEC 4936** ED-CFCS 2(2,0)  
**Seminar in Early Childhood:** Current trends, issues and advocacy in field of early childhood education. Includes guidance and clarification concerning student teaching. *Occasional.*

**EEC 4943** ED-CFCS 12(0,12)  
**Student Teaching:** Provides opportunities for student teachers to use the knowledge and skills they acquired in a supervised public school setting. Graded S/U. *Occasional.*

## UCF Courses and Descriptions

EEC 5205 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. <i>Occasional</i> .	ED-CFCS 3(3,0)	EEL 3123C Networks and Systems: PR: EEL 3004. Network functions, Laplace transforms, frequency domain analysis using Fourier series and transforms, sampling theory and z-transforms. <i>Fall, Spring</i> . M&S fee: \$15.00	ECS-ECE 4(3,1)	EEL 4216 Fundamentals of Electric Power Systems: PR: EEL 3004 or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, and transmission lines. <i>Spring</i> .	ECS-ECE 3(3,0)
EEC 5206 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. <i>Spring</i> .	ED-CFCS 3(3,0)	EEL 3306 Semiconductor Devices I: PR: EEL 3004. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models. <i>Fall, Spring</i> .	ECS-ECE 3(3,0)	EEL 4309C Electronics II: PR: EEL 3307C, EEL 3342C. Ideal Op-Amps and applications. Introduction to Logic Circuits; Bipolar, MOS and CMOS families; Flip-flops and memory cells, comparators and timing circuits; A/D and D/A converters. <i>Fall, Spring</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)
EEC 5208 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. <i>Even Fall</i> .	ED-CFCS 3(3,0)	EEL 3307C Electronics I: PR: EEL 3123C, EEL 3306. Electronic devices, analog electronic circuits, amplifier analysis and design, and frequency effects. <i>Fall, Spring</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)	EEL 4314 Device Electronics for Integrated Circuits: PR: EEL 3306. P.N. Junctions, Bipolar Transistor Analysis, Metal Semiconductor contacts, MOS Systems MOSFET Analysis and Limitations. <i>Occasional</i> .	ECS-ECE 3(3,0)
EED 3250 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. <i>Occasional</i> .	ED-CFCS 3(3,0)	EEL 3342C Introduction to Digital Circuits and Systems: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049 or C.I. (to enroll in this course, a C or better for the above courses is required). Switching theory and devices. Combinational and sequential logic. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters. <i>Fall, Spring</i> .	ECS-ECE 3(2,3)	EEL 4436C 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. <i>Odd Fall</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)
EED 4011 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. <i>Occasional</i> .	ED-CFCS 4(4,0)	EEL 3470 Electromagnetic Fields: PR: EEL 3004. Electric and magnetic fields and electromagnetic waves. <i>Fall, Spring</i> .	ECS-ECE 3(3,0)	EEL 4440 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. <i>Spring</i> .	ECS-ECE 3(3,0)
EED 4210 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. <i>Occasional</i> .	ED-CFCS 3(3,0)	EEL 3520 Information Theory: PR: MAC 2147. Fundamentals of information theory and communication systems. Topics include: the definition of information, band width and frequency spectrum, systems design, filters, modulations, demodulators, antennas, and wireless communications. Not open to EE or CpE majors. <i>Fall, Spring</i> .	ECS-ECE 3(3,0)	EEL 4512C Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise. <i>Occasional</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)
EED 4243 Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation and evaluation of the IEP, modification of regular education instructional practices, crisis intervention and prevention. <i>Occasional</i> .	ED-CFCS 3(3,0)	EEL 3552C Analog and Digital Communication Fundamentals: PR: EEL 3123C. Fundamentals of AM and FM, Baseband pulse and digital signaling, Bandpass signaling, digital modulation and detection, and error probability of simple digital systems. <i>Fall, Spring</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)	EEL 4515C Digital Communication Systems: PR: EEL 3552C. Sampling and quantization, PAM, PWM, PTM, PCM, and Delta Modulation ASK, FSK, PSK, MPSK, introduction to coding. <i>Fall</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)
EED 4244 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. <i>Occasional</i> .	ED-CFCS 2(2,0)	EEL 3657 Linear Control Systems: PR: EEL 3123C. Control theory, transfer function modeling, Nyquist criteria, root locus, Bode plots, and Design of lead and lag compensation. <i>Fall, Spring</i> .	ECS-ECE 3(3,0)	EEL 4518 Satellite Communications: PR: EEL 3552C. The principles of satellite communications, including communications satellites, Earth stations, link analysis, FDMA and TDMA. May be repeated for credit. <i>Fall</i> .	ECS-ECE 3(3,0)
EEL 3004 Electrical Networks: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049, CR: MAP 2302 (to enroll in this course, a C or better for the above courses is required). Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform. <i>Fall, Spring</i> .	ECS-ECE 3(3,0)	EEL 3801C Introduction to Computer Engineering: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049, CR: EEL 3342C (to enroll in this course, a C or better for the above courses is required). Introduction to the field of computer engineering. Engineering applications of advanced C-language concepts. C++ topics and applications. Basic computer organization. Assembly language programming. <i>Fall, Spring</i> .	ECS-ECE 3(2,3)	EEL 4612 Introduction to Modern and Robust Control: PR: EEL 3657. Classical control theory including differential equations and Laplace transform techniques, stability analysis, and classical frequency domain design. <i>Occasional</i> .	ECS-ECE 3(3,0)
EEL 3041 Circuit Analysis: PR: PHY 2053C. Study of electrical networks. Circuit analysis techniques are presented, including DC and steady state analysis. Power calculations, power distribution and dissipation are covered with examples relating to cables, connections, and buses. Not open to EE and CpE majors. <i>Fall, Spring</i> .	ECS-ECE 3(3,0)	EEL 4130 Fundamentals of Continuous Simulation: PR: MAP 2302. Fundamental concepts of continuous system simulation. Numerical integration, math modeling, simulation software. May be repeated for credit. <i>Occasional</i> .	ECS-ECE 3(3,0)	EEL 4635C 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. <i>Occasional</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)
EEL 4140C Analog Filter Design: PR: EEL 3123C. Passive and active analog filter design. <i>Fall</i> . M&S fee: \$15.00	ECS-ECE 4(3,3)	EEL 4205 Electric Machinery: PR: EEL 3004. Fundamentals of DC and AC electric machines. <i>Occasional</i> .	ECS-ECE 3(3,0)	EEL 4664 Autonomous Robotic Systems: PR: EEL 3657. Robotics with emphasis on kinematics, dynamics, trajectory planning, regulation and tracking, formation control, and cooperative rules and behaviors of robotic vehicles. <i>Occasional</i> .	ECS-ECE 3(3,0)
EEL 4205 Electric Machinery: PR: EEL 3004. Fundamentals of DC and AC electric machines. <i>Occasional</i> .	ECS-ECE 3(3,0)			EEL 4750 Digital Signal Processing Fundamentals: PR: EEL 3552C. Study of discrete-time signals and systems, Z-transform, DFT introduction to digital filter design. <i>Fall, Spring</i> .	ECS-ECE 3(3,0)



<p><b>EEL 4767C</b>      ECS-ECE      4(3,3)  <b>Computer System Design I:</b> PR: EEL 3342C and EEL 3801C. Basic computer organization and design. Computer performance metrics, introduction to processor, memory and I/O organization and design. Assembly language programming and microprocessor based design. <i>Fall, Spring.</i> M&amp;S fee: \$30.00</p>	<p><b>EEL 4882</b>      ECS-ECE      3(3,0)  <b>Engineering Systems Software:</b> PR: EEL 4851C and EEL 4767C. Introduction to operating systems concepts and facilities for engineering applications, including multiprogramming, resource allocation and management, systems utilities, and operating system implementation. <i>Fall, Spring.</i></p>	<p><b>EEL 5370</b>      ECS-ECE      3(3,0)  <b>Operational Amplifiers:</b> PR: EEL 4309C. Ideal and non-ideal Op-Amps. Linear applications. Active RC and switched-capacitor filters. Non-linear and other functional circuits. Frequency stability and compensation of Op-Amps. <i>Even Fall.</i></p>
<p><b>EEL 4768C</b>      ECS-ECE      4(3,3)  <b>Computer System Design II:</b> PR: EEL 4767C and EEL 4851C. Continuation of EEL 4767C. Control and datapath design using a hardware description language, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC. <i>Fall, Spring.</i> M&amp;S fee: \$30.00</p>	<p><b>EEL 4884C</b>      ECS-ECE      4(3,3)  <b>Engineering Software Design:</b> PR: EEL 4851C. Software systems development life cycle, function and object-oriented methodologies, CASE; Analysis, design, and development of a large software project. <i>Fall, Spring.</i> M&amp;S fee: \$5.00</p>	<p><b>EEL 5378</b>      ECS-ECE      3(3,0)  <b>CMOS Analog and Digital Circuit Design:</b> PR: EEL 4309C. Advanced principles and design techniques for CMOS ICs including most recent published results. <i>Fall.</i></p>
<p><b>EEL 4781</b>      ECS-ECE      3(3,0)  <b>Computer Communication Networks:</b> PR: EEL 4767C and STA 3032. Network models. Media access protocols. Data link control. Routing and flow control. Internetworking. Current architectures and protocols: OSI, ethernet, token ring, FDDI, HSLC, X.25, etc. <i>Fall, Spring.</i></p>	<p><b>EEL 4890</b>      ECS-ECE      3(3,0)  <b>Continuous System Simulation I:</b> PR: MAP 2302. Numerical integration techniques and discrete time system models for approximating the dynamics of continuous systems. <i>Occasional.</i></p>	<p><b>EEL 5390</b>      ECS-ECE      3(3,0)  <b>Full-Custom VLSI Design:</b> PR: EEL 3342C, EEL 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification. <i>Spring.</i></p>
<p><b>EEL 4783C</b>      ECS-ECE      3(2,3)  <b>Computer-Aided Engineering Design:</b> PR: EEL 4768C. Review of currently available CAE tools for digital hardware and software design applications. <i>Occasional.</i> M&amp;S fee: \$5.00</p>	<p><b>EEL 4914</b>      ECS-ECE      3(2,1)  <b>Senior Design I:</b> PR: EEL 3307C, EEL 3657, and EEL 3552C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, ethics, social impact and engineering organizations are considered. <i>Fall, Spring.</i></p>	<p><b>EEL 5432</b>      ECS-ECE      3(3,0)  <b>Satellite Remote Sensing:</b> PR: EEL 3470 or PHY 4324. Fundamentals of satellite remote sensing, orbits and geometry, radiative transfer theory, microwave and infrared sensing techniques, ocean, ice and atmosphere geophysical measurements. <i>Occasional.</i></p>
<p><b>EEL 4791</b>      ECS-ECE      3(2,4)  <b>Telemetry and Space Computer Systems:</b> PR: EEL 3552C and EEL 3801C, EEL 3657, EEL 3307C, EEL 3470. Telemetry and computer sub-systems are discussed as they are implemented in the space-launch system "inertial upper stages". <i>Occasional.</i></p>	<p><b>EEL 4915L</b>      ECS-ECE      3(0,3)  <b>Senior Design II:</b> PR: EEL 4914. Execution of electrical and computer engineering project including complete project design review, construction, testing and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort and final report. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>EEL 5434</b>      ECS-ECE      3(3,0)  <b>Microwave Circuits and Devices:</b> PR: EEL 4436C or EEL 5555C. Planar transmission lines; passive microwave circuits; active circuit design using Gunn, IMPATT, FETs, RTDS, etc.: microwave integrated circuits. <i>Occasional.</i></p>
<p><b>EEL 4817H</b>      ECS-ECE      3(3,0)  <b>Honors Current Topics in Machine Learning I:</b> PR: Consent of Honors and EEL 4817H. Research topics in machine learning that are of current interest to the Machine Learning community. Students will be assigned a research project. With Honors content. <i>Occasional.</i></p>	<p><b>EEL 5173</b>      ECS-ECE      3(3,0)  <b>Linear Systems Theory:</b> PR: EEL 3657. Models and properties of linear systems, transformation, controllability and observability, control and observer designs, MFD, and realization theory. <i>Spring.</i></p>	<p><b>EEL 5462C</b>      ECS-ECE      3(3,1)  <b>Antenna Analysis and Design:</b> PR: EEL 3470 or equivalent. Fundamentals of antennas; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas. <i>Odd Fall.</i> M&amp;S fee: \$5.00</p>
<p><b>EEL 4818H</b>      ECS-ECE      3(3,0)  <b>Honors Current Topics in Machine Learning II:</b> PR: Consent of Honors and EEL 3801C or COP 3223 or STA 3032. Machine learning, ART Neural networks, random neural network, genetic algorithms, decision trees, statistical techniques, and implementation issues. With Honors content. <i>Occasional.</i></p>	<p><b>EEL 5245C</b>      ECS-ECE      3(2,1)  <b>Power Electronics:</b> PR: EEL 4309C. Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cycloconverters, applications. <i>Fall.</i></p>	<p><b>EEL 5513</b>      ECS-ECE      3(3,0)  <b>Digital Signal Processing Applications:</b> PR: EEL 4750. The design and practical consideration for implementing Digital Signal Processing Algorithms including Fast Fourier Transform techniques, and some useful applications. <i>Spring.</i></p>
<p><b>EEL 4832</b>      ECS-ECE      3(3,0)  <b>Engineering Applications of Computer Methods:</b> PR: MAP 2302, STA 3032, EGN 3420. Engineering applications of numerical methods, including solution of differential equations, simulation, optimization, and multidimensional root-finding, integration and series approximations. <i>Fall, Spring.</i></p>	<p><b>EEL 5332C</b>      ECS-ECE      3(2,1)  <b>Thin Film Technology:</b> PR: EEL 3306 or equivalent. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices. <i>Occasional.</i> M&amp;S fee: \$30.00</p>	<p><b>EEL 5517</b>      ECS-ECE      3(3,0)  <b>Surface Acoustic Wave Devices and Systems:</b> 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. <i>Occasional.</i></p>
<p><b>EEL 4851C</b>      ECS-ECE      4(3,3)  <b>Engineering Data Structures:</b> PR: EEL 3801C. Design of data structures and algorithms, with emphasis on performance analysis, memory organization, stacks, queues, linked lists, trees, graphs, searches, and sorts. Introduction to object-oriented structures. <i>Fall, Spring.</i> M&amp;S fee: \$5.00</p>	<p><b>EEL 5352</b>      ECS-ECE      3(3,0)  <b>Semiconductor Material and Device Characterization:</b> PR: EEL 3306 or C.I. Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films. <i>Occasional.</i></p>	<p><b>EEL 5542</b>      ECS-ECE      3(3,0)  <b>Random Processes I:</b> PR: EEL 3552C and STA 3032. Elements of probability theory, random variables, and stochastic processes. <i>Fall, Spring.</i></p>
<p><b>EEL 4872</b>      ECS-ECE      3(3,0)  <b>Engineering Applications of Intelligent Systems:</b> PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures. <i>Occasional.</i></p>	<p><b>EEL 5353</b>      ECS-ECE      3(3,0)  <b>Semiconductor Device Modeling and Simulation:</b> PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included. <i>Spring.</i></p>	<p><b>EEL 5547</b>      ECS-ECE      3(3,0)  <b>Introduction to Radar Systems:</b> PR: EEL 3552C. Introduction to Pulse and CW Radar Systems. Chirp Radar Systems. Tracking Radar. Noise in Radar Systems. <i>Spring.</i></p>
	<p><b>EEL 5355C</b>      ECS-ECE      4(3,3)  <b>Fabrication of Solid-State Devices:</b> PR: EEL 3306. Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>EEL 5555C</b>      ECS-ECE      3(2,2)  <b>RF and Microwave Communications:</b> RF and microwave active circuits microstrip amplifier, oscillator, and mixer design and fabrication. Receiver design, noise, familiarization with network and spectrum analyzers. <i>Occasional.</i> M&amp;S fee: \$30.00</p>
		<p><b>EEL 5625</b>      ECS-ECE      3(3,0)  <b>Applied Control Systems:</b> 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 results and ongoing research issues in the area of MEMS. <i>Occasional.</i></p>

## UCF Courses and Descriptions

EEL 5630	ECS-ECE	3(3,0)	EEL 5874	ECS-ECE	3(3,0)	EET 3716	ECS-ENT	3(3,0)
<b>Digital Control Systems:</b> PR: EEL 3657. Real-time digital control system analysis and design, Z-transforms, sampling and reconstruction, time and frequency response, stability analysis, digital controller design. <i>Fall</i> .			<b>Expert Systems and Knowledge Engineering:</b> 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. <i>Spring</i> .			<b>Network Analysis:</b> PR: DC/AC circuits and Calculus I. Transient analysis of first and second-order circuits, circuit analysis using Laplace Transforms. Transform function, frequency response analysis, and Bode plots. May be repeated for credit. <i>Spring</i> .		
EEL 5704	ECS-ECE	3(3,0)	EEL 5881	ECS-ECE	3(3,0)	EET 4158C	ECS-ENT	3(2,2)
<b>Computer Aided Logical Design:</b> PR: EEL 4767C. Design, analysis and synthesis of sequential logic circuits and systems. Data path and controller design using a hardware description language. <i>Occasional</i> .			<b>Software Engineering I:</b> PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer software for Engineering applications. <i>Fall, Spring</i> .			<b>Linear Integrated Circuits:</b> PR: EET 3716, or Consent of Coordinator. Applications of operational amplifiers, comparators, phase-locked loops, timers, regulators, other integrated circuits. Includes amplifiers, active filters, oscillators, differentiators and integrators. <i>Fall</i> . M&S fee: \$10.00		
EEL 5708	ECS-ECE	3(3,0)	EEL 5892	ECS-ECE	3(3,0)	EET 4329C	ECS-ENT	4(3,2)
<b>High Performance Computer Architecture:</b> PR: EEL 4767C. Engineering of high performance computer systems. Memory, processor and control sub-systems design tradeoffs. Virtual and cache memory. Pipelining, vector computing. <i>Fall</i> .			<b>Continuous System Simulation II:</b> PR: EEL 4890. Introduction to Simulink. Numerical integration including one-step and multi-step methods. Stiff systems and numerical stability. Simulink projects. <i>Odd Spring</i> .			<b>Communications Systems:</b> PR: EET 4158C. Electronics Devices Principles and interrelationships of communication system components and circuits. Signals, noise, modulation, demodulation, bandwidth requirements. Transmitters and receivers. <i>Occasional</i> . M&S fee: \$10.00		
EEL 5722C	ECS-ECE	3(3,1)	EES 3004	ECS-ECE	3(3,0)	EET 4339C	ECS-ENT	3(2,2)
<b>Field-Programmable Gate Array (FPGA) Design:</b> 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. <i>Even Fall</i> .			<b>Environmental systems:</b> 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. <i>Occasional</i> .			<b>Antennas and Propagation:</b> PR: EET 4329C. Transmission lines, impedance matching, use of Smith Chart. Antenna principles. Beamwidth, gain, directivity, effects of height, path-loss. System design. <i>Occasional</i> .		
EEL 5762	ECS-ECE	3(3,0)	EES 4111C	ECS-CEE	3(2,3)	EET 4359C	ECS-ENT	4(3,2)
<b>Performance Analysis of Computer and Communication Systems:</b> PR: EEL 4767C, STA 3032. Stochastic modeling and discrete-event simulation; Markov chains; networks of queues; SemiMarkov models; application to multiprocessor systems, switching and multi-user communications. <i>Occasional</i> .			<b>Biological Process Control:</b> CR: ENV 4561. Engineering design, measurements and analysis of biological systems in environmental engineering for water management, bio-energy products, wastewater treatment, and others. <i>Spring</i> . M&S fee: \$45.00			<b>Digital Communications Systems:</b> PR: EET 4158C. Theory and application of techniques utilized in digital data transmission and reception. <i>Occasional</i> .		
EEL 5771C	ECS-ECE	3(2,3)	EES 4202C	ECS-CEE	3(2,3)	EET 4389C	ECS-ENT	3(2,2)
<b>Engineering Applications of Computer Graphics:</b> PR: EGN 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments. <i>Occasional</i> . M&S fee: \$5.00			<b>Chemical Process Control:</b> 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. <i>Fall</i> . M&S fee: \$45.00			<b>Satellite Communication Systems:</b> PR: EET 4329C. System analysis and design, Orbits, launching methods. Baseband signals and modulation. Link design, synchronization techniques. Interference, noise, access. Antennas, spectrum utilization. <i>Occasional</i> .		
EEL 5780	ECS-ECE	3(3,0)	EES 5318	ECS-CEE	3(3,0)	EET 4548	ECS-ENT	3(3,0)
<b>Wireless Networks:</b> 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). <i>Even Spring</i> .			<b>Industrial Ecology:</b> PR: ENV 3001, ENV 4341. Discussion of similarities between ecological systems and industrial systems with the emphasis on material cycles, energy flow, pollution prevention, organizational structures, and environmental management. <i>Occasional</i> .			<b>Power Systems:</b> PR: EET 2025C or equivalent. Analysis of electrical power systems and energy conversion. 3-phase load, per-unit quantities, circuit constants, rotating machines, 3-phase transformers, transmission lines, power flow, stability and fault calculations. <i>Fall</i> .		
EEL 5820	ECS-ECE	3(3,0)	EES 5605	ECS-CEE	3(3,0)	EET 4732C	ECS-ENT	4(3,3)
<b>Image Processing:</b> 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. <i>Odd Spring</i> .			<b>Outdoor Noise Control:</b> PR: C.I. Community noise evaluation and control, legislative standards, instrumentation and measurement, abatement methods, and noise modeling. <i>Occasional</i> .			<b>Feedback Control Systems:</b> PR: EET 3716 and PHY 2053C. Modeling and analysis of networks and control systems. Stability and compensation considerations, using root locus, Nichols chart and Bode plots. Simulation techniques, system components. <i>Spring</i> .		
EEL 5825	ECS-ECE	3(3,0)	EET 2025C	ECS-ENT	4(3,2)	EET 4915C	ECS-ENT	3(1,4)
<b>Pattern Recognition:</b> 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. <i>Occasional</i> .			<b>Electrical Circuits:</b> PR: EET 1015C or EET 3085C. Frequency domain and steady state analysis of electric circuits: RCL circuits, timed circuits, resonance and "Q," filters, magnetically coupled circuits, transformers, 3-phase circuits, power relationships. <i>Occasional</i> . M&S fee: \$10.00			<b>Senior Design Project:</b> PR: Electronics Engineering Technology senior entering anticipated graduation semester or C.I. Individual or group project involving project definition planning, development, test and evaluation. Progress reports, final oral presentation and final written report required. <i>Occasional</i> .		
EEL 5860	ECS-ECE	3(3,0)	EET 3085C	ECS-ENT	4(3,2)	EEX 2010	ED-CFCS	3(3,0)
<b>Software Requirements Engineering:</b> 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. <i>Occasional</i> .			<b>Electricity and Electronics:</b> PR: MAC 1105 or equivalent. Basic theorems and circuit analysis techniques. Instruments and measurements. Introduction to integrated circuits. <i>Occasional</i> . M&S fee: \$10.00			<b>Introduction to Special Education:</b> Orientation to the education of children and adolescents with special needs in the schools. The course includes characteristics, trends, mainstreaming, and other issues. <i>Fall, Spring</i> .		
			EET 3143C	ECS-ENT	4(3,2)	EEX 2310	ED-CFCS	3(3,0)
			<b>Electronic Devices and Circuits:</b> PR: DC & AC Circuits; MAC 1114. Theory, characteristics, operational parameters, circuits and applications of solid state electronic devices. Bipolar and field effect transistors, multistage amplifiers, power amplifiers. <i>Occasional</i> .			<b>Exceptional Populations in School and Society:</b> Characteristics of exceptionalities in school and society to increase student awareness and comfort levels with individuals with exceptionalities. <i>Fall, Even Spring</i> .		

**EEX 3102 ED-CFCS 3(3,0)**  
**Language Development and Communication Disorders:** PR: Junior standing. Interdisciplinary approach to language development, identification and remediation of communication and language disorders. *Occasional.*

**EEX 3221 ED-CFCS 3(3,0)**  
**Assessment of Exceptional Students:** Formal and informal assessment techniques for screening, placement, program planning, program evaluation, and monitoring of progress of exceptional students. *Fall, Spring.*

**EEX 3241 ED-CFCS 3(3,0)**  
**Methods for Academic Skills for Exceptional Students:** PR: EEX 2010, EEX 3864. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I. *Fall, Spring.*

**EEX 3243 ED-CFCS 3(3,1)**  
**Techniques for Exceptional Adolescents-Adults:** CR: EEX 3241. A study of strategies, basic and functional content, career and vocational educational, and transition planning for adolescents and adults with special needs. *Spring.*

**EEX 3450 ED-CFCS 3(3,0)**  
**Young Children With Special Needs:** Provides an overview of the unique field of early childhood special education, its mission, and approaches to helping young children and their families. *Spring.*

**EEX 3754 ED-CFCS 3(3,0)**  
**Parents as Educators:** Develop parental awareness of their role in child development and school success. Attention given to social context of parenting and parents as advocates for children. *Occasional.*

**EEX 3864 ED-CFCS 6(0,16)**  
**Internship I:** PR: EDG 4323, RED 3012, EEX 2010, EEX 3241. Satisfactory completion of the portfolio. Internship assignment 2 days a week under a certified exceptional education teacher. Half in elementary, half in secondary. Graded S/U. *Occasional.*

**EEX 3942 ED-CFCS 3(3,0)**  
**Internship I Exceptional Education:** PR: EDG 4323, RED 3012, EEX 2010, EEX 3241, MAE 2801. Student teaching exceptional education in secondary school setting under the supervision of a certified classroom teacher. *Occasional.*

**EEX 4003 ED-CFCS 3(3,0)**  
**Teaching Exceptional Students:** PR: EDG 4323. Development and practice of effective teaching and management strategies for elementary regular classroom teachers to use in working with mild disabilities. *Fall, Spring.*

**EEX 4054 ED-CFCS 2(2,0)**  
**Application and Theories for Students with Special Needs:** PR: EEX 2010, EDG 4323. Theories and historical foundations for students with specific learning, physical, cognitive, and emotional disabilities. *Spring.*

**EEX 4066 ED-CFCS 3(3,0)**  
**Curriculum and Instructional Strategies for Special Needs Students:** PR: EEX 2010, EEX 4054, EEX 3241, EDG 4323, RED 3012, LAE 4314, MAE 2801. Development of highly specialized techniques and curriculum materials to be used with students with emotional, learning, cognitive and physical disabilities. *Occasional.*

**EEX 4601 ED-CFCS 3(3,0)**  
**Introduction to Behavior Management:** Study of management techniques based on applied behavioral analysis principles for modifying inappropriate behaviors and maintaining appropriate behaviors of exceptional students. *Fall, Spring.*

**EEX 4751 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. *Occasional.*

**EEX 4753 ED-CFCS 3(3,0)**  
**Parent/professional Collaboration:** The special educator's role in working with families, regular educators, and other professionals in a collaborative relationship. *Fall.*

**EEX 4943 ED-CFCS 12(0,35)**  
**Internship II:** PR: Completion of specialization. Satisfactory completion of the portfolio. Full day student teaching under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U. *Occasional.*

**EEX 5051 ED-CFCS 3(3,0)**  
**Exceptional Children in the Schools:** PR: Senior standing or C.I. Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools. *Fall, Spring.*

**EEX 5702 ED-CFCS 3(3,0)**  
**Planning Curriculum for Pre-kindergarten Children with Disabilities:** Focus on curriculum planning; developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities. *Odd Spring.*

**EEX 5750 ED-CFCS 3(3,0)**  
**Communication with Parents and Agencies:** Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition. *Occasional.*

**EGM 3601 ECS-MMAE 3(3,0)**  
**Solid Mechanics:** PR: EGN 3310; CR: MAP 2302. Concepts of stress, strain, deflection; axial force, torsion, bending; combined stress, Mohr's circle, failure theories; design concepts, application to machines and vehicles. *Fall, Spring.*

**EGN 1006C ECS-ECS 1(1,2)**  
**Introduction to the Engineering Profession:** PR: New students status or C.I. Overview of academic and professional requirements in various engineering disciplines. *Fall.* M&S fee: \$5.00

**EGN 1007C ECS-ECS 1(1,2)**  
**Engineering Concepts and Methods:** PR: New student status or C.I., EGN 1006C and ENC 1101; CR: SPC 1016. Introduction to the use of computer and applications software in solving engineering problems. Introduction to the concepts of engineering design through the use of teams: engineering communication; engineering professionalism and ethics. *Spring.* M&S fee: \$5.00

**EGN 1036C ECS-MMAE 2(1,1)**  
**Foundations of Leadership:** PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Engineering & Computer Science providing a foundation of leadership, scholarship, and service regarding disciplines in the college. *Fall, Spring.*

**EGN 1050C ECS-ECS 3(2,2)**  
**The Digital Universe:** PR: High School Algebra or Trigonometry. Science, math, engineering, and technology fundamentals of the information technology. Historical significance of the advances in digital technology. Real world applications. Hands-on laboratories using digital signal processor kits. *Occasional.*

**EGN 1111C ECS-MMAE 2(1,3)**  
**Engineering Computer Graphics:** PR: Trigonometry. Spatial visualization, sketching and graphical presentation as a form of computerized engineering communication. Engineering drawing, descriptive geometry and graphical solution techniques using computer software. *Fall, Spring.* M&S fee: \$10.00

**EGN 1360 ECS-MMAE 3(3,0)**  
**Materials in Today's World:** A survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today's world with emphasis on modern developments and new materials. *Occasional.*

**EGN 2815C ECS-MMAE 3(2,3)**  
**Space Science and Technology: Past, Present, and Future:** Introduction to space technology, past, present and future. Applications to modern life. *Occasional.*

**EGN 2920C 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 1091C, EGN 1036C, EDG 1005C or HSC 1931C. Provides experiential leadership experience in an appropriate leadership setting under the direction of a university supervisor with the LEAD Scholars Program. May be repeated for credit. *Occasional.*

**EGN 3060C ECS-ECS 3(2,3)**  
**Introduction to Robotics:** PR: Engineering majors take EGN 1007C and (EEL 3004 or EGN 3373) ; Computer Science majors take COP 3330, COP 3503C and COT 3960. Introduction to classical and modern topics in robotics: mechanisms and mechatronics, sensors, data processing, and vision, kinematics and dynamics, path and motion planning, controls, AI and evolutionary computing, cooperative control and behaviors. *Occasional.*

**EGN 3211 ECS-ECE 3(3,0)**  
**Engineering Analysis and Computation:** PR: MAC 2311. Engineering analysis and computation with structured constructs. Subscripted variables, subprograms, input/output. Batch processing and time sharing. Engineering applications will be emphasized. *Fall, Spring.*

**EGN 3310 ECS-CEE 3(3,0)**  
**Engineering Analysis-Statics:** PR: PHY 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures. *Fall, Spring.*

**EGN 3310H ECS-CEE 3(3,0)**  
**Engineering Analysis-Statics (Honors):** PR: Permission of Honors and PHY 2048; CR: MAC 2312. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit. *Fall.*

**EGN 3321 ECS-MMAE 3(3,0)**  
**Engineering Analysis-Dynamics:** PR: EGN 3310; CR: MAC 2313. Kinematics and kinetics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum. *Fall, Spring.*

**EGN 3321H ECS-CEE 3(3,0)**  
**Engineering Analysis - Dynamics Honors:** PR: Permission of Honors and EGN 3310. Kinematics and kinetics of particles and rigid bodies; mass and acceleration; work and energy; impulse and momentum. *Occasional.*

**EGN 3331 ECS-CEE 3(3,0)**  
**Mechanics of Materials:** PR: EGN 3310; CR: MAP 2302. Concepts of stress, strain, strength, deflection of axial force members, shafts in torsion, beams in flexure; combined stress; stability of columns, and design of simple elements. *Fall, Spring.*

## UCF Courses and Descriptions

EGN 3343	ECS-MMAE	3(3,0)	EGN 4624	ECS-IEMS	3(3,0)	EGN 5858C	ECS-IEMS	3(2,1)
<b>Thermodynamics:</b> CR: EGN 3321, MAP 2302. Work, heat, and energy transformations. Relation of properties. Laws, concepts, and modes of analysis common to all applications of thermodynamics in engineering. <i>Fall, Spring.</i>			<b>Engineering Administration:</b> 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. <i>Fall, Spring.</i>			<b>Prototyping and Product Realization:</b> PR: Basic knowledge and/or experience in CAD/CAM technology or C.I. Product design and development cycle including design for functionality and manufacturability. Fundamentals, applications and practice of rapid prototyping and reverse engineering technologies. <i>Occasional.</i> M&S fee: \$45.00		
EGN 3358	ECS-MMAE	3(3,0)	EGN 4706C	ECS-MMAE	3(2,4)	EIN 3000	ECS-IEMS	2(2,0)
<b>Thermo-Fluids-Heat Transfer:</b> PR: EGN 3310, MAP 2302. Introduction to first and second laws of thermodynamics, continuum fluid mechanics, and heat transfer for electrical, industrial, and computer engineering majors. <i>Fall, Spring.</i>			<b>Small Satellite Payloads and Integration:</b> PR: EML 3303C OR EAS 3800C OR EEL 3801C OR ESI 4523C. 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. <i>Occasional.</i>			<b>Introduction to Industrial Engineering and Management Systems:</b> Issues important to the operation of an industrial or service facility. <i>Fall.</i>		
EGN 3365	ECS-MMAE	3(3,0)	EGN 4707C	ECS-MMAE	3(2,4)	EIN 3314C	ECS-IEMS	3(2,2)
<b>Structure and Properties of Materials:</b> PR: CHS 1440 and MAC 2312. Atomic structure and bonding, crystal structure and imperfections, solidification, phase transformations, phase diagrams, heat treatment, mechanical & electrical properties, materials characterization techniques. <i>Fall, Spring.</i>			<b>Processing Space-Launch Systems:</b> 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. <i>Occasional.</i>			<b>Work Measurement &amp; Design:</b> PR: STA 3032. Management standards for evaluation and control of man and man/machine systems. Flow and operations analysis, work measurement, job evaluations. Laboratory assignments. <i>Fall.</i> M&S fee: \$20.00		
EGN 3373	ECS-ECE	3(3,0)	EGN 4824	ECS-ENT	3(3,0)	EIN 3354	ECS-IEMS	3(3,0)
<b>Principles of Electrical Engineering:</b> PR: PHY 2049; CR: MAP 2302. Fundamentals of electrical circuits and analysis; fundamentals of electronics and AC power systems, transformers, electromechanics and rotating machines. <i>Fall, Spring.</i>			<b>Energy and Society:</b> Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions. <i>Occasional.</i>			<b>Principles of Cost Engineering:</b> 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. <i>Fall.</i>		
EGN 3373H	ECS-ECE	3(3,0)	EGN 4830	ECS-ENT	3(3,0)	EIN 4214	ECS-IEMS	3(3,0)
<b>Principles of Electrical Engineering Honors:</b> PR: Permission of Honors and PHY 2049, CR: MAP 2302. Fundamentals of electrical circuits and analysis. Fundamentals of electronics and AC power systems, transformers, electromechanics and rotating machines. <i>Spring.</i>			<b>Telecommunications:</b> Telecommunications and its role in contemporary local, national, and international society. <i>Occasional.</i>			<b>Safety Engineering and Administration:</b> Analysis of accidents in the industrial operating environment. Application of fault trees, OSHA requirements. Consideration of accident costs and organizational aspects of accident prevention. <i>Occasional.</i>		
EGN 3420	ECS-ECE	3(3,0)	EGN 4931H	ECS-ECS	3(3,0)	EIN 4243C	ECS-IEMS	3(2,2)
<b>Engineering Analysis:</b> PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting. <i>Fall, Spring.</i>			<b>Engineering Honors Seminar:</b> PR: Permission of Honors and Senior standing and C.I. Introduces a select group of students in engineering or other fields of science to the methodology commonly employed in research. Students will carry out independent research which will prepare them for graduate study. <i>Occasional.</i>			<b>Human Engineering:</b> PR: EIN 3314C; Senior standing. Man/machine systems; design and conduct of human engineering studies. <i>Spring.</i> M&S fee: \$20.00		
EGN 3613	ECS-IEMS	2(2,0)	EGN 4933C	ECS-ECS	1(1,1)	EIN 4333C	ECS-IEMS	3(2,3)
<b>Engineering Economic Analysis:</b> PR: ECO 2013. Economic evaluation of engineering alternatives and design. Time value of money and economic impact of taxes, risk, depreciation. <i>Fall, Spring.</i>			<b>Professional Practice I:</b> PR: Junior standing in engineering or computer science. Contemporary global technical issues, professional development, life long learning, and ethical responsibilities. Community service and/or community outreach projects required. <i>Occasional.</i>			<b>Industrial Control Systems:</b> PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments. <i>Spring.</i> M&S fee: \$20.00		
EGN 3704	ECS-CEE	2(2,0)	EGN 5035	ECS-ECS	3(3,0)	EIN 4364C	ECS-IEMS	3(2,2)
<b>Engineering and the Environment:</b> 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. <i>Occasional.</i>			<b>Topics in Technological Development:</b> PR: C.I. Selected topics in the technological development of western civilization including the weight-driven clock, steam engine, electric light, etc. <i>Occasional.</i>			<b>Industrial Facilities Planning and Design:</b> PR: EIN 3314C, EIN 3354 CR: EIN 4333C, EIN 4391C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments. <i>Spring.</i>		
EGN 3843	ECS-IEMS	3(3,0)	EGN 5720	ECS-IEMS	3(2,3)	EIN 4391C	ECS-IEMS	3(2,2)
<b>Systems Modeling:</b> PR: CGS 1060C or equivalent. Representation of man/machine systems through analytic and computer-based models. Case studies in the analysis and improvement of systems in industry, education, and government. <i>Occasional.</i>			<b>Internal Combustion Engine Analysis and Optimization:</b> PR: EGN 3343 or EGN 3358 or C.I. Internal combustion engine operating principles. Topics covered include engine design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models. <i>Occasional.</i> M&S fee: \$45.00			<b>Manufacturing Engineering:</b> PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. <i>Fall.</i> M&S fee: \$20.00		
EGN 4412C	ECS-MMAE	3(1,5)	EGN 5840	ECS-MMAE	3(3,0)	EIN 4450	ECS-IEMS	3(3,0)
<b>Interdisciplinary Design I:</b> PR: Industrial: EIN 4364C; Comp and Elect: EEL 3307C, EEL 3657, EEL 3552C, EEL 3801C; Aero: EAS 3810C, CR: EML 4312C, EAS 3404C; Comp Sci: COT 3960, COP 3503C; Mech: EML 3500, EML 3701, EML 3303C, CR: EML 4312C, 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. <i>Fall.</i>			<b>Small Rocket Applications for Teachers:</b> 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. <i>Occasional.</i>			<b>Principles of Concurrent Engineering:</b> PR: EGN 3613 or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly. <i>Even Spring.</i>		
EGN 4413C	ECS-MMAE	3(1,5)	EGN 5855C	ECS-IEMS	3(2,2)	EIN 4516C	ECS-IEMS	3(2,2)
<b>Interdisciplinary Design II:</b> PR: EGN 4412C. Continuation of Interdisciplinary Design I May be repeated for credit. <i>Spring.</i>			<b>Metrology:</b> PR: EIN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing. <i>Occasional.</i>			<b>Systems Analysis and Design:</b> PR: EIN 4364C. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions. Initiation of senior design projects. <i>Fall.</i> M&S fee: \$20.00		

**EIN 4545C**      **ECS-IEMS**      **3(2,2)**  
**Industrial Engineering Applications in The Service Industries:** PR: EIN 3314C, ESI 4312, ESI 4234 or CI. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc. *Even Fall.*

**EIN 4621C**      **ECS-IEMS**      **3(2,2)**  
**Computer-Aided-Manufacturing:** PR: EIN 4391C. Computer-Aided-Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP). *Occasional.* M&S fee: \$45.00

**EIN 4891C**      **ECS-IEMS**      **3(2,3)**  
**Industrial Engineering Senior Design Project:** PR: EIN 4516C, Senior standing. Capstone design course; application of IEMS techniques to real-world design applications. *Spring.* M&S fee: \$15.00

**EIN 5108**      **ECS-IEMS**      **3(3,0)**  
**The Environment of Technical Organizations:** PR: Graduate status or CI; EGN 4624 recommended. Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations. *Fall.*

**EIN 5117**      **ECS-IEMS**      **3(3,0)**  
**Management Information Systems I:** PR: C.I. The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS. *Spring.*

**EIN 5140**      **ECS-IEMS**      **3(3,0)**  
**Project Engineering:** PR: Graduate standing or C.I. Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control. *Fall, Spring.*

**EIN 5248C**      **ECS-IEMS**      **3(2,2)**  
**Ergonomics:** PR: C.I. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipments, and workstations. *Fall.* M&S fee: \$20.00

**EIN 5251**      **ECS-IEMS**      **3(3,0)**  
**Usability Engineering:** PR: STA 3032 or equivalent. Usability paradigms/principles; cognitive walkthroughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques; query techniques; laboratory techniques; and field study approaches. *Spring.*

**EIN 5255C**      **ECS-IEMS**      **3(2,2)**  
**Interactive Simulation:** PR: Graduate standing or C.I. Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment. *Fall, Spring.*

**EIN 5317**      **ECS-IEMS**      **3(3,0)**  
**Training System Design:** PR: seniors, post bac or graduate standing or CI. How human performance deficiencies should be addressed from a systems design point of view. Manpower, personnel, and training considerations will be examined. *Fall.*

**EIN 5346**      **ECS-IEMS**      **3(3,0)**  
**Engineering Logistics:** Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support. *Occasional.*

**EIN 5356**      **ECS-IEMS**      **3(3,0)**  
**Cost Engineering:** Cost estimation and control of engineering systems throughout the product life cycle. *Occasional.*

**EIN 5368C**      **ECS-IEMS**      **3(2,2)**  
**Integrated Factory Automation Systems:** PR: EIN 4391C or C. I. Automated material handling systems, industrial robots, automated guided vehicles, automated storage and retrieval systems, economics, justification. *Odd Fall.* M&S fee: \$20.00

**EIN 5388**      **ECS-IEMS**      **3(3,0)**  
**Forecasting:** PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages. *Occasional.*

**EIN 5392C**      **ECS-IEMS**      **3(2,2)**  
**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. *Occasional.* M&S fee: \$20.00

**EIN 5607C**      **ECS-IEMS**      **3(2,2)**  
**Computer Control of Manufacturing Systems:** PR: EIN 4391C, and EIN 4621C or EML 4535C; or C.I. Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control. *Spring.* M&S fee: \$45.00

**EIN 5936**      **ECS-IEMS**      **1(1,0)**  
**Seminar in Industrial Engineering: Doctoral Research:** PR: C.I. Essential topics for doctoral research including research areas, skills, funding, proposals, ethics, mentors, seminars, societies, conferences, presentations, interviewing, grants, and publishing. *Fall.*

**ELD 4011**      **ED-CFCS**      **3(3,0)**  
**Intro to Specific Learning Disabilities:** Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices. *Occasional.*

**ELD 4242**      **ED-CFCS**      **3(3,0)**  
**Program Planning for Specific Learning Disabilities:** PR: Senior standing. Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities. *Occasional.*

**ELD 4320**      **ED-CFCS**      **4(4,0)**  
**Introduction and Program Planning for Specific Learning Disabilities:** PR: EEX 2010. Theories and historical foundations of specific learning disabilities and the development of highly specialized techniques and curriculum materials. *Occasional.*

**EMA 1002**      **ECS-MMAE**      **3(3,0)**  
**Materials in Today's World:** A survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today's world with emphasis on modern developments and new materials. *Occasional.*

**EMA 3000**      **ECS-MMAE**      **3(3,0)**  
**Engineering Polymeric, Ceramic, and Composite Materials:** PR: EGN 3365. Structure, properties, processing of engineering polymeric, ceramic, and composite materials. *Occasional.*

**EMA 3012C**      **ECS-MMAE**      **2(2,2)**  
**Experimental Techniques in Mechanics and Materials:** PR: EGN 3365, EGM 3601. Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treatment, mechanical testing (hardness, tensile, impact, etc.). *Fall, Spring.*

**EMA 3014**      **ECS-MMAE**      **3(3,0)**  
**Nanomaterials Characterization and Applications:** PR: EMA 3691. Microstructural and mechanical characterization of nanostructures, nano-coatings, corrosion, magnetics, quantum dots for solar cells, materials for hydrogen economy, laboratory on material characterization. *Occasional.*

**EMA 3124**      **ECS-MMAE**      **3(3,0)**  
**Design and Selection of Materials:** PR: EGM 3601, and EGN 3365 or EMA 3706. Relationship between processing, structure and properties of various engineering materials and their selection in engineering design. *Fall.*

**EMA 3691**      **ECS-MMAE**      **3(3,0)**  
**Nanomaterials Process Engineering:** PR: CHS 1440 or CHM 2045C, and PHY 2048 or PHY 2053C. Nanomaterials, processing, nanomachining, nanocomposites, nanocomposites and computations of devices. *Occasional.*

**EMA 3706**      **ECS-MMAE**      **3(3,0)**  
**Structure and Properties of Aerospace Materials:** PR: CHS 1440 or CHM 2045C and MAC 2312. Atomic structure, bonding, crystal structures, solidification, phase transformations, heat treatment, mechanical behavior, specific aerospace materials, materials design. *Fall.*

**EMA 4102**      **ECS-MMAE**      **3(3,0)**  
**Thermodynamics and Kinetics of Materials:** PR: EGN 3343, and EGN 3365 or EMA 3706. Application of first, second and third laws of thermodynamics to materials, phase diagrams, statistical thermodynamics, kinetic processes in materials, diffusion, nucleation and growth, and phase transformations. *Fall.*

**EMA 4103**      **ECS-ENT**      **3(3,0)**  
**Space Environment Technology:** PR: MAC 2253, PHY 2053C. The space environment and how it affects manufacturing of space elements to withstand the harsh space environment. *Occasional.*

**EMA 4223**      **ECS-MMAE**      **3(3,0)**  
**Fundamentals of Mechanical Behavior of Materials:** PR: EGM 3601, and EGN 3365 or EMA 3706. Elementary treatment of elasticity, plasticity, viscoelasticity, creep, fracture, and fatigue. *Spring.*

**EMA 4413**      **ECS-MMAE**      **3(3,0)**  
**Electronic Properties of Materials:** PR: EGN 3365. Electronic processes in solids. Electrical, magnetic, and optical properties of solids. Electron energies in solids. Superconducting materials. *Occasional.*

**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. *Occasional.*

**EMA 4503**      **ECS-MMAE**      **3(3,0)**  
**Materials Characterization Techniques:** PR: EMA 3012C, and EGN 3365 or EMA 3706. Theory and practice of commonly used techniques for characterization of crystal structure, microstructure and chemistry. *Occasional.*

**EMA 4506**      **ECS-MMAE**      **3(3,0)**  
**Emerging Materials:** PR: EGN 3365, or EMA 3706. Structure, properties and processing of modern emerging materials. *Occasional.*

**EMA 4606**      **ECS-MMAE**      **3(3,0)**  
**Transport Phenomena in Materials Processing:** PR: EGN 3365, EGN 3343 or EGN 3358. Conservation equations, fluid flow, heat transfer, free and moving boundaries, solidification, single-phase and multi-phase materials, alloys, solute rejection, microstructure, macrosegregation. *Occasional.*

**EMA 4701C**      **ECS-MMAE**      **3(2,4)**  
**Materials Performance in Space Applications:** PR: EGN 3365. Laboratory failure analysis of materials within space-related environments. *Occasional.*

## UCF Courses and Descriptions

- 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. *Occasional.*
- EMA 5104 ECS-MMAE 3(3,0)**  
**Intermediate Structure and Properties of Materials:** PR: EGN 3365. Fundamentals of dislocation theory, metallurgical thermodynamics and diffusion. Phase transformations, strengthening mechanisms and fracture. Introduction to engineering polymers, ceramics, and composites. *Fall.*
- 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. *Occasional.*
- EMA 5108 ECS-MMAE 3(3,0)**  
**Surface Science:** PR: PHY 2049 and C.I. Methods of chemical and physical analysis of surfaces, with emphasis on ultra-high vacuum spectroscopies utilizing electron, ion and photon probes. *Occasional.*
- EMA 5140 ECS-MMAE 3(3,0)**  
**Introduction to Ceramic Materials:** PR: EGN 3365. Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications. *Occasional.*
- EMA 5317 ECS-MMAE 3(3,0)**  
**Materials Kinetics:** PR: C.I. Mass and thermal transport, phase transformations and Arrhenius rate processes. *Occasional.*
- EMA 5326 ECS-MMAE 3(3,0)**  
**Corrosion Science and Engineering:** PR: EGN 3365. Electrochemical principles and applications to detecting and monitoring corrosion processes. Various forms of corrosion, their causes and control. Techniques of corrosion protection. *Occasional.*
- EMA 5504 ECS-MMAE 3(2,2)**  
**Modern Characterization of Materials:** PR: EMA 5104 or C.I. Techniques and operation of instrumentation (light, scanning, transmission, and auger microscopy) for the characterization of structure, defects, composition, and surfaces. *Occasional.*
- EMA 5505 ECS-MMAE 3(2,2)**  
**Scanning Electron Microscopy:** PR: EMA 5104 or C.I. A review of electron optics, beam/specimen interactions, image formation, x-ray analysis, specimen preparation, microelectronic applications and crystallography in the SEM. *Occasional.*
- EMA 5517 ECS-MMAE 3(2,2)**  
**Advanced Materials Characterization by Ion Beam Analysis:** PR: EMA 5504 or C.I. Principle of interactions between ion beam and solid materials; sputtering and scattering theories; fundamentals and applications of secondary ion mass and Rutherford Backscattering spectrometric. May be repeated for credit. *Occasional.*
- EMA 5584 ECS-MMAE 3(3,0)**  
**Biomaterials:** PR: EGN 3365. Properties of natural biological materials and their relation to microstructure, biocompatibility, specific applications in orthopedic, cardiovascular, visual, neural, and reconstruction implants. *Even Spring.* M&S fee: \$45.00
- EMA 5585 ECS-MMAE 3(3,0)**  
**Materials Science of Thin Films:** PR: Graduate standing or C.I. Interaction of thin film processing techniques with the structure and properties of the materials deposited. *Odd Fall.*
- EMA 5586 ECS-MMAE 3(3,0)**  
**Photovoltaic Solar Energy Materials:** PR: EGN 3365. Materials properties basic to photovoltaics, structures, homojunction, heterojunction, and surface barrier solar cells, AMDS-1D modeling of c-Si, GaAs bulk and a-Si:H, CIGS, and CdTe thin film solar cells. May be repeated for credit. *Occasional.*
- EMA 5587C ECS-MMAE 3(2,2)**  
**Characterization and Reliability of PV Cells:** PR: EGN 3365. Photovoltaic characterization of solar cells, dark and light I-V, C-V, and quantum efficiency, physics of failure of microelectronic devices, solder bonds, encapsulation, PV module reliability. *Occasional.*
- EMA 5588 ECS-MMAE 3(3,0)**  
**Biocompatibility of Materials:** PR: EGN 3365 or C.I. Biocompatibility and bioactivity; Cell-biomaterials interactions; Engineering bone & cartilage; Soft-tissue replacements; Total hip replacements; Nanostructured biomaterials, Imaging techniques, Preservation techniques for biomaterials, MSDS and FDA compatibility data. *Occasional.*
- EMA 5610 ECS-MMAE 3(3,0)**  
**Laser Materials Processing:** PR: EGN 3343 or EMA 5106 or C.I. Laser beam optics; laser-material interactions; laser heating, melting, vaporization. Plasma formation; laser surface treatment, welding, machining; laser material synthesis. Thin film deposition, crystal growth. *Occasional.*
- EMA 5705 ECS-MMAE 3(3,0)**  
**High Temperature Materials:** PR: EMA 5104 or C.I. Desired material properties for high temperature applications, physical metallurgy of such materials, corrosion, hot corrosion and oxidation properties, aero- and land-based gas turbine requirements. *Occasional.*
- EME 2040 ED-ERTL 3(3,0)**  
**Technology for Educators:** Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues. *Fall, Spring.* M&S fee: \$1.00
- EME 5050 ED-ERTL 3(3,0)**  
**Fundamentals of Technology for Educators:** PR: Post-bac or C.I. Designed to provide participants with an introduction to the field of educational technology content with emphasis on using and integrating technology in K-12 to improve the teaching and learning process. *Fall, Spring.*
- EME 5051 ED-TLP 3(3,0)**  
**Technologies of Instruction & Information Management:** PR: Acceptance into Ed Media program or C.I. Theories and practices in utilizing instructional media and information technologies. Emphasis on new and emerging technologies and their effects on the school and media program. *Fall.*
- EME 5053 ED-ERTL 3(3,0)**  
**Electronic Resources for Education:** PR: Graduate standing or C.I. Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom. *Fall.*
- EME 5057 ED-ERTL 3(3,0)**  
**Communication for Instructional Systems—Application:** Applications of technology, communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction. *Occasional.*
- EME 5208 ED-TLP 3(3,0)**  
**Production Techniques for Instructional Settings:** PR: Acceptance into Ed Media Program or C.I. Survey of materials for producing instructional materials. Emphasis on graphic, audio, video, and photographic skills and the application of instructional and communication theories. *Spring.*
- EME 5225 ED-TLP 3(3,0)**  
**Media for Children and Young Adults:** PR: Acceptance into Ed Media Program or C.I. Survey of materials for children's and young adults' informational and recreational needs; analysis, evaluation, and utilization of print and non-print materials. *Spring.*
- EME 5810 ED-TLP 1(1,0)**  
**Teaching and Learning with Technology:** Overview of technologies for teaching and for learning. Practical strategies for using technology in the classroom. (May be repeated 3 times for credit.) *Occasional.*
- EML 3001C ECS-MMAE 1(1,2)**  
**Machine Shop Practice:** PR: EGN 1111C or C.I. Set up and operation of mill and lathe, cutting tools, holding devices, cutting speeds and feed rates. Measurement devices. Hands-on experience. *Occasional.* M&S fee: \$15.00
- EML 3034C ECS-MMAE 3(3,1)**  
**Modeling Methods in Mechanical and Aerospace Engineering:** PR: MAP 2302, high level programming language; CR: EGN 3321. Computer aided modeling of mechanical and aerospace systems. Solution methods. Curve fitting. Optimization. Case studies with applications to MAE design. *Fall, Spring.*
- EML 3101 ECS-MMAE 3(3,0)**  
**Thermodynamics of Mechanical Systems:** PR: EGN 3343. Applied thermodynamics, availability analysis, thermodynamics of reactive and non-reactive mixtures, thermodynamic relations of properties. Thermodynamic design analysis of complete mechanical systems. *Fall.*
- EML 3262 ECS-MMAE 3(3,0)**  
**Kinematics of Mechanisms:** PR: EGN 3321. Graphical, mathematical, and computer-aided kinematics, analysis, and synthesis of basic mechanisms. *Fall.*
- EML 3303C ECS-MMAE 2(2,2)**  
**Mechanical Engineering Measurements:** PR: EGN 3343, CR: EGM 3601. Theory, calibration and use of instruments. Measurement techniques, data analysis, report writing. Laboratory topics related to mechanical engineering. *Fall.*
- EML 3500 ECS-MMAE 3(3,0)**  
**Machine Design and Analysis:** PR: EGM 3601. Application of the principles of mechanics of materials to the design of mechanical elements. *Spring.*
- EML 3701 ECS-MMAE 3(3,0)**  
**Fluid Mechanics I:** PR: MAP 2302, EGN 3321, EGN 3343. Basic principles of continuum fluid mechanics. Integral and differential forms of governing equations, fluid statics, dimensional analysis, measurements, internal flows. *Fall, Spring.*

<b>EML 3804C</b> <b>ECS-MMAE</b> <b>3(2,3)</b> <b>Digital Control in Mechatronics:</b> PR: EML 4312C. Discrete microprocessor control of mechatronics dynamic systems using state-space representation: Digital controllers: Design for mechatronic applications. <i>Spring.</i> M&S fee: \$15.00	<b>EML 4502C</b> <b>ECS-MMAE</b> <b>3(1,6)</b> <b>Engineering Design II:</b> 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. <i>Fall, Spring.</i> M&S fee: \$45.00	<b>EML 5228C</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Modal Analysis:</b> PR: EML 3303C, EML 4220, and EML 5060. Theoretical basis. Measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures. Modeling. <i>Occasional.</i>
<b>EML 4005</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Design in Nature and Engineering:</b> PR: EGN 3343 and EGM 3601. Design for function and invention, in both engineering and nature: economy, form, beauty, energy, mechanism, structure, evolution in nature. <i>Occasional.</i>	<b>EML 4535C</b> <b>ECS-MMAE</b> <b>3(2,3)</b> <b>CAD/CAM:</b> PR: EGN 3343, EML 3034C, and EGM 3601: CR EAS 4200 or EML 3500. CAD/CAM/FEM computational technology. Basic concepts. Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software. <i>Fall, Spring.</i> M&S fee: \$15.00	<b>EML 5237</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Intermediate Mechanics of Materials:</b> PR: EML 3500, EML 5060. Elements of elasticity. Failure theories. Bending and torsion. Thin plates. Energy principles. Thick-walled cylinders. Applications to design. <i>Occasional.</i>
<b>EML 4024C</b> <b>ECS-MMAE</b> <b>3(2,2)</b> <b>Engineering Design Practice:</b> PR: EML 3034C and EML 3500 or EAS 4200. Basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software. <i>Fall, Spring.</i>	<b>EML 4600</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>HVAC Systems Engineering:</b> PR: EML 3101 and EML 4142. Heating, ventilation, air-conditioning, and refrigeration principles and systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems. <i>Fall.</i>	<b>EML 5245</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Tribology:</b> PR: EGN 3365, EGN 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, tribotesting. <i>Occasional.</i>
<b>EML 4142</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Heat Transfer:</b> PR: EML 3701 and EML 3034C. Conduction, radiation, and convection heat transfer. Basic energy balances emphasized. Steady state and transient problems, analysis and design of simple heat exchangers. <i>Fall, Spring.</i>	<b>EML 4703</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Fluid Mechanics II:</b> PR: EML 3701. Continuation of Fluid Mechanics I. External flows, fluid machinery, compressible flows, design projects. <i>Fall.</i>	<b>EML 5271</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Intermediate Dynamics:</b> PR: EML 3321. Dynamics of particles, rigid bodies, and distributed mass systems. Hamilton's principle. Lagrange's equations. Numerical methods. Mechanisms. <i>Occasional.</i>
<b>EML 4220</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Vibration Analysis:</b> PR: EGN 3321, EGM 3601 and EML 3034C. Undamped and damped vibration of single degree freedom systems. Forced vibration. Transient response. Multiple degree of freedom systems. Normal modes. <i>Spring.</i>	<b>EML 5060</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Mathematical Methods in Mechanical, Materials and Aerospace Engineering:</b> PR: MAP 2302. Vector field theory, generalized coordinates, complex variables, contour integration and Laplace and Fourier transforms and inversions, variable coefficient ODEs and solution of PDEs for governing equations of heat transfer, ideal fluid flow, and mechanics. <i>Fall.</i>	<b>EML 5290</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Introduction to MEMS &amp; Micromachining:</b> PR: Graduate standing or C.I. Introduction of Micro-Electro-Mechanical-Systems (MEMS) and micromachining (microfabrication) methods. Etching and etching mask. Basics of silicon micromachining processing. Fundamentals of bulk micromachining. Thin film formation and surface micromachining. Microplating and LIGA process. Nonlithographic micromachining process including laser. May be repeated for credit. <i>Odd Fall.</i>
<b>EML 4260</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Dynamics of Machinery:</b> PR: EML 3262 and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects; balancing of rotating and reciprocating masses; cam dynamics. <i>Occasional.</i>	<b>EML 5066</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Computational Methods in Mechanical, Materials and Aerospace Engineering:</b> PR: EML 3034C. Error Norms, interpolation and extrapolation, quadratures and adaptive quadratures, solutions of linear and nonlinear systems of equations, functional approximation, solution of ODE's and MWR. <i>Occasional.</i>	<b>EML 5291</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>MEMS Materials:</b> 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. <i>Even Spring.</i>
<b>EML 4264</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Vehicle Dynamics:</b> PR: EML 3262 and EML 4220. Basic mechanics governing vehicle dynamics, performance and handling; acceleration, braking, ride, cornering, suspension, steering, rollover. <i>Occasional.</i>	<b>EML 5105</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Gas Kinetics and Statistical Thermodynamics:</b> 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. <i>Occasional.</i>	<b>EML 5292</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Fundamental Phenomenon and Scaling laws in Miniature Engineering Systems:</b> 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. <i>Odd Fall.</i>
<b>EML 4293</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Essentials of Miniature Engineering Systems:</b> PR: Graduate status or C.I. Engineering of miniature mechanical, thermal, energy, and electrical systems, including advantages, microfabrication methods, and future trends. <i>Occasional.</i>	<b>EML 5131</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Combustion Phenomena:</b> PR: EML 4703, EML 3101. Physical and chemical aspects of combustion phenomena. Rate processes, chemical kinetics, structure, propagation and stability of premixed and diffusion flames. <i>Occasional.</i>	<b>EML 5311</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>System Control:</b> PR: EML 4312C; CR: EML 5060. Modern control theory for linear and non-linear systems; controllability and observability. Linear state feedback and state estimators, compensator design. <i>Occasional.</i>
<b>EML 4304C</b> <b>ECS-MMAE</b> <b>2(1,3)</b> <b>Thermo-Fluids Measurements:</b> PR: EML 3303C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments. <i>Spring.</i> M&S fee: \$45.00	<b>EML 5152</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Intermediate Heat Transfer:</b> PR: EML 4142, EML 5713, EML 5060. An intermediate-level course dealing with heat and mass diffusion, boundary layer problems, and radiation from real bodies. Emphasis on combined modes, numerical methods. <i>Occasional.</i>	<b>EML 5402</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Turbomachinery:</b> PR: EML 3101, EML 4703 or EAS 4134. Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps. <i>Occasional.</i>
<b>EML 4312C</b> <b>ECS-MMAE</b> <b>3(2,3)</b> <b>Feedback Control:</b> PR: EGN 3321, MAP 2302, EGN 3373 and EML 4220 or EAS 4210C. Mathematical modeling of dynamic systems: transient and steady state response; Root Locus and z-transform methods; discrete systems analysis; controller design. <i>Fall.</i>	<b>EML 5211</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Continuum Mechanics:</b> PR: EML 3500 or EML 4703 or EAS 4200 or C.I. Introduction to tensors: deformation and strain; stress; balance laws, applications in Newtonian fluid dynamics and isotropic linear elasticity. <i>Fall.</i>	<b>EML 5532C</b> <b>ECS-MMAE</b> <b>3(2,3)</b> <b>Computer-Aided Design for Manufacture:</b> PR: EGN 4535C. Builds on introductory material covered in EML 4535C. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems. <i>Even Fall, Spring.</i> M&S fee: \$15.00
<b>EML 4411</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Mechanical Power Systems:</b> PR: EML 3101. Analysis and design of large power generating systems and components, with emphasis on steam plants utilizing both chemical and nuclear fuels. <i>Occasional.</i>	<b>EML 5224</b> <b>ECS-MMAE</b> <b>3(3,0)</b> <b>Acoustics:</b> PR: EML 4220. CR: EML 5060. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers. <i>Occasional.</i>	
<b>EML 4501C</b> <b>ECS-MMAE</b> <b>3(1,6)</b> <b>Engineering Design I:</b> 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. <i>Fall, Spring.</i> M&S fee: \$15.00		

## UCF Courses and Descriptions

<p><b>EML 5546</b>      <b>ECS-MMAE</b>      <b>3(3,0)</b>  <b>Engineering Design with Composite Materials:</b> PR: EML 5237. Mechanics of structural components of composite materials under static, thermal, vibratory loads. Instability. Lamina and laminate theory, energy methods, failure theories, and structural joining methods. <i>Occasional.</i></p>	<p><b>EMR 4372</b>      <b>ED-CFCS</b>      <b>3(3,0)</b>  <b>Curriculum Method and Materials for Retarded Persons:</b> PR: Senior standing. Development of highly specialized techniques, curriculum and materials to be used with students with mental retardation. <i>Occasional.</i></p>	<p><b>ENC 3241H</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Honors Writing for the Technical Professional:</b> 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. <i>Occasional.</i></p>
<p><b>EML 5572</b>      <b>ECS-MMAE</b>      <b>3(3,0)</b>  <b>Probabilistic Methods in Mechanical Design:</b> PR: EML 3500, STA 3032. Uncertainty modeling in design. Use of probabilistic mathematics to assess strength, stiffness, toughness, and stability. Applications. <i>Occasional.</i></p>	<p><b>ENC 1101</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Composition I:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 3250</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Professional Writing:</b> PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on composition of reports, proposals, letters, and memos. <i>Fall, Spring.</i></p>
<p><b>EML 5587C</b>      <b>ECS-MMAE</b>      <b>3(2,3)</b>  <b>Mechanics of Biostructures I:</b> 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. <i>Even Fall.</i></p>	<p><b>ENC 1101H</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Honors Freshman Composition I:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 3310</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Magazine Writing I:</b> PR: Grade of C (2.0) or better required in ENC 1102. Intensive practice in description narration, exposition and argumentation; control of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing. <i>Fall, Spring.</i></p>
<p><b>EML 5588C</b>      <b>ECS-MMAE</b>      <b>3(2,3)</b>  <b>Mechanics of Biostructures II:</b> 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. <i>Even Fall, Odd Spring.</i></p>	<p><b>ENC 1102</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Composition II:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 3311</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Advanced Expository Writing:</b> PR: Grade of C (2.0) or better required in ENC 1102. Practice of expository writing directed to general reader. <i>Fall, Spring.</i></p>
<p><b>EML 5605</b>      <b>ECS-MMAE</b>      <b>3(3,0)</b>  <b>Applied HVAC Engineering:</b> 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. <i>Occasional.</i></p>	<p><b>ENC 1102H</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Honors Freshman Composition II:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 3905</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Directed experience in Writing:</b> PR: ENC 1102, C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit. <i>Occasional.</i></p>
<p><b>EML 5606</b>      <b>ECS-MMAE</b>      <b>3(3,0)</b>  <b>HVAC Systems Engineering:</b> PR: EML 3101, EML 4142, EML 3034C. Heating, ventilation, air-conditions and refrigeration principles, system design and analysis. May be repeated for credit. <i>Odd Fall.</i></p>	<p><b>ENC 2127</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Grammar and Composition:</b> A systematic study of grammar and mechanics to improve editing for clarity and accuracy in writing. <i>Occasional.</i></p>	<p><b>ENC 3942</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Journal Writing Practicum:</b> An interdisciplinary practicum in journal writing as a literary genre and a means of self-expansion. <i>Occasional.</i></p>
<p><b>EML 5713</b>      <b>ECS-MMAE</b>      <b>3(3,0)</b>  <b>Intermediate Fluid Mechanics:</b> PR: EML 4703. CR: EML 5060. Fluid kinematics; conservation equations; Navier-Stokes equations; boundary layer flow, inviscid flow, circulation and vorticity; low Reynolds number flow; turbulence. <i>Occasional.</i></p>	<p><b>ENC 2210</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Writing for the Business Professional:</b> PR: ENC 1102, Junior standing or C.I. Emphasis on clear expository writing of memoranda, reports, and articles in the student's declared field of business. <i>Occasional.</i></p>	<p><b>ENC 4215</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Technical Publication and Project Management:</b> PR: ENC 3211 or ENC 3241 or C.I. New publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction. Introduction of graphics; style, format, layout, and board-work. <i>Spring.</i></p>
<p><b>EML 5760</b>      <b>ECS-MMAE</b>      <b>3(3,0)</b>  <b>Biofluid Mechanics:</b> PR: MAP 2302, EML 3701, EML 4703. Analysis of biomedical and bioengineering systems using principles of transport phenomena. Governing equations of fluid flow, circulatory systems blood flow, macro and microcirculation, and blood rheology. <i>Occasional.</i></p>	<p><b>ENC 2411C</b>      <b>CAH-ENG</b>      <b>3(2,1)</b>  <b>Digital Literacy for the Liberal Arts:</b> 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. <i>Occasional.</i></p>	<p><b>ENC 4218</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>The Visual in Technical Documentation:</b> PR: ENC 4293. Relevant theories of the visual and their application to technical communication practice. <i>Fall.</i></p>
<p><b>EML 5936</b>      <b>ECS-MMAE</b>      <b>1(1,0)</b>  <b>Mechanical, Materials, &amp; Aerospace Engineering Graduate Seminar:</b> MMAE graduate student seminar. Graded S/U. <i>Occasional.</i></p>	<p><b>ENC 3211</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Theory and Practice of Technical Writing:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 4262</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>International Technical Communication:</b> PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241 or C.I. International issues in the field of technical communication including internationalizing documents, user interface design, international collaboration, and rhetorical and logistical challenges. <i>Occasional.</i></p>
<p><b>EMR 4011</b>      <b>ED-CFCS</b>      <b>3(3,0)</b>  <b>Intro to Mental Retardation:</b> Nature and needs of mentally handicapped students with emphasis on etiology, prevention, identification, and application of effective practices and recognition of trends and standards. <i>Occasional.</i></p>	<p><b>ENC 3211H</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Honors Theory and Practice of Technical Writing:</b> 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. <i>Occasional.</i></p>	<p><b>ENC 4265</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Writing for the Computer Industry:</b> PR: ENC 1102 and Junior standing, or C.I. Creating different kinds of software manuals or online help systems for the computer industry. <i>Occasional.</i></p>
<p><b>EML 4362</b>      <b>ED-CFCS</b>      <b>4(4,0)</b>  <b>Teaching Students with Mental Handicaps:</b> PR: EEX 2010. Relationship between the characteristics of students with mental handicaps and specialized instructional materials, strategies and curriculum. <i>Occasional.</i></p>	<p><b>ENC 3241</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Writing for the Technical Professional:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 4275</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Writing/Consulting: theory &amp; practice:</b> PR: C.I. Theory and practice of assessing and responding to writing from the standpoint of a collaborator, as opposed to evaluator. <i>Occasional.</i></p>
		<p><b>ENC 4280</b>      <b>CAH-ENG</b>      <b>3(3,0)</b>  <b>Technical Writing Style:</b> PR: ENC 3211 or ENC 3241 or C.I. Strategies for understanding and improving writing styles, particularly for a variety of technical writing genres. <i>Spring.</i></p>



<p><b>ENC 4290</b> CAH-ENG 3(3,0) <b>Usability Testing for Technical Communication:</b> PR: ENC 4293 or C.I. Usability theory and techniques for evaluating manuals, online documentation, and other technical communication genres. <i>Occasional.</i></p>	<p><b>ENC 5237</b> CAH-ENG 3(3,0) <b>Writing for the Business Professional:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 5427</b> CAH-ENG 3(3,0) <b>Hypertext:</b> PR: Graduate status or senior standing or C.I. A study of the theory and practice of computer-driven hypertext. <i>Occasional.</i></p>
<p><b>ENC 4293</b> CAH-ENG 3(3,0) <b>Technical Documentation I:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 5245</b> CAH-ENG 3(3,0) <b>Teaching Professional Writing:</b> 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. <i>Occasional.</i></p>	<p><b>ENC 5705</b> CAH-ENG 3(2,1) <b>Theory and Practice in Composition:</b> 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. <i>Spring.</i></p>
<p><b>ENC 4294</b> CAH-ENG 3(3,0) <b>Technical Documentation II:</b> 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. <i>Fall, Spring.</i> M&amp;S fee: \$10.00</p>	<p><b>ENC 5256</b> CAH-ENG 3(3,0) <b>Gendered Rhetoric:</b> 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. <i>Occasional.</i></p>	<p><b>ENC 5712</b> CAH-ENG 3(3,0) <b>Studies in Literacy and Writing:</b> 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. <i>Odd Fall.</i></p>
<p><b>ENC 4295</b> CAH-ENG 3(3,0) <b>Technical Documentation III:</b> 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. <i>Fall, Spring.</i> M&amp;S fee: \$10.00</p>	<p><b>ENC 5276</b> CAH-ENG 3(3,0) <b>Writing/Consulting: Theory &amp; Practice:</b> 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). <i>Occasional.</i></p>	<p><b>ENC 5745</b> CAH-ENG 3(3,0) <b>Teaching Practicum:</b> 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. <i>Occasional.</i></p>
<p><b>ENC 4312</b> CAH-ENG 3(3,0) <b>Theory &amp; Practice Persuasive Writing:</b> PR: ENC 1102. A study of the theory and practice of persuasion, including logical emotional and ethical appeals. <i>Occasional.</i></p>	<p><b>ENC 5277</b> CAH-ENG 3(3,0) <b>Teaching Writing With Computers:</b> 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. <i>Occasional.</i></p>	<p><b>ENC 5930</b> CAH-ENG 3(3,0) <b>Current Topics in Professional Writing:</b> PR: Graduate status or C.I. Students will learn how to produce texts for specialized fields of discourse, including the medical and legal profession, as well as for general publication. <i>Occasional.</i></p>
<p><b>ENC 4360</b> CAH-ENG 3(3,0) <b>Nature Writing:</b> PR: CRW 3013 or C.I. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing. <i>Occasional.</i></p>	<p><b>ENC 5291</b> CAH-ENG 3(3,0) <b>Developing Professional Writing Projects:</b> 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. <i>Occasional.</i></p>	<p><b>ENC 5945</b> CAH-ENG 3(3,0) <b>Community Literacy Practicum:</b> PR: Graduate status or senior standing or C.I. Designed to deepen theoretical understanding of literacy through participation in a community literacy project. <i>Occasional.</i></p>
<p><b>ENC 4414</b> CAH-ENG 3(3,0) <b>Writing and Hypertext:</b> PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241. Theories of electronic literacy and information to develop a more critical sensibility regarding hypertext. <i>Occasional.</i></p>	<p><b>ENC 5306</b> CAH-ENG 3(3,0) <b>Persuasive Writing:</b> PR: Graduate status or senior standing or C.I. Theory and practice of writing persuasively. <i>Occasional.</i></p>	<p><b>ENG 3010</b> CAH-ENG 3(3,0) <b>Practical Criticism:</b> PR: ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism. <i>Occasional.</i></p>
<p><b>ENC 4415</b> CAH-ENG 3(3,0) <b>Digital Rhetorics and The Modern Dialectic:</b> PR: ENC 1102. This online course explores the development of digital/online rhetorics through a close reading and analysis of formative rhetorical texts, modern American fiction and films. <i>Fall, Spring.</i></p>	<p><b>ENC 5335</b> CAH-ENG 3(3,0) <b>Rhetorical Traditions:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENG 3014</b> CAH-ENG 3(3,0) <b>Theories and Techniques of Literature Study:</b> PR: ENC 1102, Junior standing, or C.I. Techniques of analysis, theories of interpretation, and application of critical approaches to selected works. <i>Fall, Spring.</i></p>
<p><b>ENC 5214</b> CAH-ENG 3(3,0) <b>Production and Publication Methods:</b> PR: Graduate status or senior standing or C.I. Theory and practice of production and publication methods for technical writers. <i>Occasional.</i></p>	<p><b>ENC 5337</b> CAH-ENG 3(3,0) <b>Modern Rhetorical Theory:</b> PR: Graduate status or senior standing or C.I. With special attention to the rhetor-audience relationship, the course studies history and practice of modern rhetorical theory. <i>Spring.</i></p>	<p><b>ENG 3073</b> CAH-ENG 3(3,0) <b>Cultural Studies Literature:</b> PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce "cultural studies.". <i>Occasional.</i></p>
<p><b>ENC 5216</b> CAH-ENG 3(3,0) <b>Editing Professional Writing:</b> 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. <i>Fall, Spring.</i></p>	<p><b>ENC 5338</b> CAH-ENG 3(3,0) <b>The Rhetorics of Public Debate:</b> 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. <i>Occasional.</i></p>	<p><b>ENG 4114</b> CAH-ENG 3(3,0) <b>Literature and Film:</b> PR: ENC 1102 and ENG 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations. <i>Occasional.</i></p>
<p><b>ENC 5219</b> CAH-ENG 3(3,0) <b>Graphics in Technical Writing:</b> PR: Graduate status or senior standing or C.I. A study of the creation and editing of graphics in technical documents. <i>Occasional.</i></p>	<p><b>ENC 5344</b> CAH-ENG 3(3,0) <b>Proposal Writing:</b> PR: Graduate status or senior standing or C.I. Theory and practice of writing proposals. <i>Occasional.</i></p>	<p><b>ENG 5009</b> CAH-ENG 3(3,0) <b>Methods of Bibliography and Research:</b> PR: Graduate status or senior standing or C.I. Bibliographical, library and systematic approaches to research at the graduate level in language and literature. <i>Fall.</i></p>
<p><b>ENC 5225</b> CAH-ENG 3(3,0) <b>Theory and Practice of Document Usability:</b> PR: Graduate status or senior standing or C.I. Presents theory and practice of how document usability is assessed and improved. <i>Occasional.</i></p>	<p><b>ENC 5425</b> CAH-ENG 3(3,0) <b>Hypertext Theory and Design:</b> PR: graduate status, post bac, or senior standing, or C.I. Theoretical and practical study of the uses and premises of hypertext. <i>Occasional.</i></p>	<p><b>ENG 5018</b> CAH-ENG 3(3,0) <b>Literary Criticism:</b> PR: Graduate status or senior standing or C.I. Historical survey of major critics from classical antiquity to the modern era. <i>Spring.</i></p>
		<p><b>ENL 2012</b> CAH-ENG 3(3,0) <b>English Literature I:</b> PR: ENC 1102. Beowulf to 1798. <i>Fall, Spring.</i></p>

## UCF Courses and Descriptions

ENL 2022 English Literature II: PR: ENC 1102. From 1798 to 1914. <i>Fall, Spring.</i>	CAH-ENG 3(3,0)	ENL 5237 Eighteenth Century Studies: PR: Graduate status or senior standing or C.I. Reading, analysis, and discussion of literature in English:1660-1880. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4531 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. <i>Occasional.</i>	ECS-CEE 3(3,0)
ENL 3951 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. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENL 5250 The Victorian Age: Poetry: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4561 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. <i>Fall, Spring.</i>	ECS-CEE 4(4,0)
ENL 3951H Orlando Shakespeare Festival Honors: PR: ENC 1102 and permission of Honors. Honors theory and practice of Shakespeare's art by performance-oriented study and participation in the Orlando Shakespeare Festival's pre-season activities and productions. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENL 5256 Victorian Literature: PR: Graduate status or senior standing or C.I. A study of the major prose works and selected poetry of British Victorian writers. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4562C Environmental Engineering Systems Design: PR: ENV 4561, EES 4202C. Project course on design of water and wastewater treatment plants. <i>Spring.</i> M&S fee: \$15.00	ECS-CEE 3(2,2)
ENL 4101 English Novel: PR: ENC 1102 and ENG 3014. Analysis of major English novelists. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENL 5335 Studies in Shakespeare: PR: Graduate status or senior standing or C.I. A selection of representative plays, with emphasis on Shakespeare's development as an artist: aesthetics of dramatic literature. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4563 Environmental Control Systems: PR: EGN 3343, EGN 3373 and CWR 3201 CR: ENV 4561. Analysis and design of process control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration. <i>Occasional.</i>	ECS-CEE 3(3,0)
ENL 4220 English Renaissance Poetry and Prose: PR: ENC 1102 and ENG 3014. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly & others. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENL 5347 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. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 5071 Environmental Analysis of Transportation Systems: PR: CWR 3201; ENV 3001. Prediction and abatement of pollution from transportation sources. Analysis techniques and environment laws. <i>Occasional.</i>	ECS-CEE 3(3,0)
ENL 4230 18th Century Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of literature in English: 1660-1880. May be repeated for credit. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 3001 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. <i>Fall, Spring.</i>	ECS-CEE 3(3,0)	ENV 5116C Air Pollution Monitoring: PR: C.I. Air Pollution sampling techniques, equipment, and monitor siting. Emphasis on theory and direct applications in air pollution monitoring. <i>Occasional.</i> M&S fee: \$15.00	ECS-CEE 3(2,3)
ENL 4240 English Romantic Writers: PR: ENC 1101, ENC 1102 and ENG 3014. Study of English poets and essayists of the romantic period, such as Wordsworth, Coleridge, Hazlitt, Lamb, Byron, Shelley and Keats. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4008C Environmental Engineering Capstone Design: PR: one of - ENV 4562C, ENV 4300C, ENV 4122C, or CWR 4812C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. <i>Occasional.</i>	ECS-CEE 3(2,2)	ENV 5334 Characterization of Hazardous Waste Sites: PR: CWR 4101C and ENV 4341 or C.I. Practical and comprehensive methods of hazardous waste site characterization to determine site properties, contamination type, magnitude and risk, and remedial actions. <i>Occasional.</i>	ECS-CEE 3(3,0)
ENL 4253 The Victorian Age: Poetry: PR: ENC 1102 and ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossettis, and Emily Bronte. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4112C Air Pollution Measurements Lab: Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods. <i>Occasional.</i> M&S fee: \$30.00	ECS-CEE 3(2,2)	ENV 5335 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. <i>Occasional.</i>	ECS-CEE 3(3,0)
ENL 4262 Nineteenth Century British Prose: PR: ENC 1102 and ENG 3014. Essays and fiction of the nineteenth century. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4120 Air Pollution Control: PR: EGN 3343 and CWR 3201 and ENV 3001. Air resources engineering design, and operation of air pollution control systems. <i>Fall.</i>	ECS-CEE 3(3,0)	ENV 5410 Drinking Water Treatment: PR: ENV 4561. Drinking water treatment using existing and newly developed processes. Fe, Mn, As, NO <sub>3</sub> , DBP <sub>3</sub> , SOCs and other contaminants using oxidation, membranes, ion exchange, precipitation, sorption, and other processes. <i>Occasional.</i>	ECS-CEE 3(3,0)
ENL 4273 Modern British Literature: PR: ENC 1102 and ENG 3014. Major writers of modern British literature. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4122C Air Pollution Control Design: PR: ENV 4120. Project course on design of air pollution control equipment and systems. <i>Occasional.</i>	ECS-CEE 3(2,2)	ENV 5505 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. <i>Occasional.</i>	ECS-CEE 3(3,0)
ENL 4311 Chaucer: PR: ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4300C Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill. <i>Occasional.</i> M&S fee: \$15.00	ECS-CEE 3(2,2)	ENV 4004C General Entomology: PR: BSC 2010C and BSC 2011C, or C.I. Biology of insects: identification, taxonomy, physiology, behavior, and ecology. <i>Occasional.</i> M&S fee: \$15.00	COS-BIOL 4(2,6)
ENL 4333 Shakespeare Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of Shakespeare's plays. May be repeated for credit. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4341 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. <i>Fall.</i>	ECS-CEE 3(3,0)	EPH 5335 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. <i>Occasional.</i>	ED-CFCS 3(3,0)
ENL 4341 Milton and His Age: PR: ENC 1102 and ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes, shorter poems and selected prose. <i>Occasional.</i>	CAH-ENG 3(3,0)	ENV 4432 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. <i>Occasional.</i>	ECS-CEE 3(3,0)		
ENL 5006 British Literature: Medieval to Modern: PR: Graduate status or senior standing or C.I. Survey of British Literature from beginnings to present, with instruction in the fundamentals of prose, poetry, and drama. Emphasis on Literature's social and historical contexts. <i>Occasional.</i>	CAH-ENG 3(3,0)				

**ESE 3940** ED-TLP 3-16(0,3-16)  
**Internship I — Secondary:** PR: EDG 4323 and C.I. Student teaching in a secondary school under the supervision of a certified classroom teacher. Graded S/U. *Occasional.*

**ESE 4943** ED-TLP 7-12(0,35)  
**Internship II — Secondary:** PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars. Graded S/U or Letter grade. *Occasional.*

**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. *Occasional.*

**ESI 4221** ECS-IEMS 3(3,0)  
**Empirical Methods for Industrial Engineering:** PR: STA 3032. Application of empirical methods for industrial engineering problem solving. *Spring.*

**ESI 4234** ECS-IEMS 3(3,0)  
**Quality Engineering:** PR: STA 3032. Basic concepts and techniques of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering. *Fall.*

**ESI 4312** ECS-IEMS 3(3,0)  
**Operations Research:** PR: STA 3032. Introduction to linear, non-linear, and dynamic programming. Decision analysis, random processes, and queueing. Course covers theory through application and implementation of results. *Fall.*

**ESI 4321** ECS-IEMS 3(3,0)  
**Quantitative Techniques in Industrial Engineering:** PR: ESI 4312. Extension of ESI 4312, with primary emphasis on Operations Research and statistical applications to industrial engineering problems. *Even Fall.*

**ESI 4523C** ECS-IEMS 3(2,3)  
**Systems Simulation:** PR: STA 3032, EGN 3211 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used. *Spring.* M&S fee: \$20.00

**ESI 4628C** ECS-IEMS 3(2,3)  
**Industrial Engineering Applications of Computers:** PR: EGN 3211 or high level programming language. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises. *Fall.* M&S fee: \$20.00

**ESI 5219** ECS-IEMS 3(3,0)  
**Engineering Statistics:** PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, non-parametric stats and ANOVA. *Fall, Spring.*

**ESI 5227** ECS-IEMS 3(3,0)  
**Total Quality Improvement:** PR: STA 3032 or equivalent. Quality improvement (QI) tools and techniques, advanced QI techniques, quality improvement systems, total quality management concepts and implementation, planning and management tools, and case studies. *Fall.*

**ESI 5236** ECS-IEMS 3(3,0)  
**Reliability Engineering:** PR: ESI 4234 or equivalent, or C.I. Reliability theory and modeling approaches. Topics include: failure data analysis, maintainability, reliability standards (DOD), software reliability, reliability in design, and electronic systems reliability. *Fall.*

**ESI 5306** ECS-IEMS 3(3,0)  
**Operations Research:** PR: STA 3032. Methods of operations research, including formulation for models and derivation of solutions; linear programming, network models queueing theory, simulation, and nonlinear optimization techniques. *Fall, Spring.*

**ESI 5359** ECS-IEMS 3(3,0)  
**Risk Assessment and Management:** PR: ESI 5219 or STA 3032. Problems and complexities involved in risk assessment and management. Selected methodologies are illustrated through realistic applications in engineering and the sciences. *Odd Spring.*

**ESI 5419C** ECS-IEMS 3(2,2)  
**Engineering Applications of Linear and Nonlinear Optimization:** PR: ESI 4312 or ESI 5306. Course covers linear and nonlinear optimization applications in production planning, staffing, engineering design, distribution networks, and other engineering areas. Focuses on practicing OR analysts. *Even Spring.* M&S fee: \$45.00

**ESI 5531** ECS-IEMS 3(3,0)  
**Discrete Systems Simulation:** PR: STA 3032. Methods for performing discrete systems simulation, including network modeling, will be treated. *Spring.*

**EST 3211** ECS-ENT 3(3,0)  
**Wave Photonics:** PR: EST 3222, and EET majors. Wave properties of light, interaction with different media, and photonics technologies and systems based on wave nature of light. *Spring.*

**EST 3213** ECS-ENT 3(3,0)  
**Photonics Simulation:** PR: EST 3222. The behavior of light in standard optical systems consisting of both refractive and reflective light. Begin with general optic principles and end with system design. Not open to Physics majors or minors. *Fall.*

**EST 3222** ECS-ENT 3(3,0)  
**Photonics Technology:** PR: PHY 2053C, PHY 2054C, MAP 3401, MAC 2312. and MAC 2253 or MAC 2311. Course will introduce engineering technology students to the field of photonics. Light properties, optics, lasers, systems. *Fall.*

**EST 3543C** ECS-ENT 3(2,2)  
**Programmable Logic Applications and Device Integration:** PR: MAC 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 protocol. *Fall, Spring.*

**EST 4227** 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. *Spring.*

**EST 4236** ECS-ENT 3(3,0)  
**Laser Systems Technology:** PR: EST 3222. The theory of light amplification using gas, solid-state, and semi-conductor lasers. *Fall.*

**EST 4256** ECS-ENT 3(3,0)  
**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. *Spring.*

**EST 4259C** ECS-ENT 3(1,4)  
**Photonic Systems:** PR: Engineering Technology senior within 18 hours of graduation, C.I. Senior design project course for the BSEET Photonics concentration. *Spring.*

**EST 4502C** ECS-ENT 4(3,2)  
**Metrology and Instrumentation:** PR: ETG 3541, EET 3085C, 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. *Spring.* M&S fee: \$10.00

**ETC 4206** ECS-ENT 3(3,0)  
**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. *Spring.*

**ETC 4241C** ECS-ENT 3(2,2)  
**Construction Materials and Methods:** CR: ETG 3541. Construction principles, details, materials and methods used as related to the construction of buildings. *Fall.*

**ETC 4242** ECS-ENT 3(3,0)  
**Construction Contracts and Specifications:** The role of construction contracts, architectural specifications, product specifications, industry standards and building codes in the process of building construction. *Spring.*

**ETC 4243** ECS-ENT 4(4,0)  
**Building Systems:** PR: PHY 2053C, EET 3085C, or equivalent. Mechanical, electrical and electronic equipment and systems used in commercial/multi-story buildings. Fundamentals of air conditioning, lighting, and control systems are covered. *Even Spring.*

**ETC 4414C** ECS-ENT 3(2,2)  
**Applied Structural Design I:** PR: ETG 3533C. Introduction to indeterminate analysis. Design of steel members, components and connections. Current code and specification requirements. *Even Fall.*

**ETC 4415C** ECS-ENT 3(2,2)  
**Applied Structural Design II:** PR: ETG 3533C. Strength design of reinforced concrete members, foundations, slabs, and walls. Current code and specification requirements. *Odd Fall.*

**ETD 3350C** ECS-ENT 3(2,2)  
**Applied CADD:** PR: Engineering Drawing and some CADD background. This course in computer-aided drafting/design provides the student with the opportunity to approach detailed and intricate drafting/design problems from a computer perspective. *Fall.*

**ETG 3533C** ECS-ENT 4(3,2)  
**Applied Engineering Strength of Materials:** PR: MAC 1105, MAC 1114, ETG 3541, PHY 2053C, junior standing; CR: MAC 2253 or MAC 2311. Relationship between external forces and action of members of a structure. Topics include stress, shear, moment, deflections, columns, connections, and Mohr's circle. May be repeated for credit. *Spring.* M&S fee: \$15.00

**ETG 3541** ECS-ENT 3(3,0)  
**Applied Mechanics:** PR: MAC 1105 and MAC 1114 and PHY 2053C or equivalent. Coplanar, parallel, concurrent, and non-current force systems. Centroids, CG's, moments of inertia. Principles of dynamics, rectilinear motion and rotation, work, energy, power, impulse, momentum, and impact. *Fall, Spring.*

## UCF Courses and Descriptions

<p><b>ETG 4950C</b>      <b>ECS-ENT</b>      <b>3(1,4)</b>  <b>Senior Design Project:</b> PR: Senior Standing, Engineering Technology major and must be within 18 hour of graduation. Supervised individual or group projects involving project definition, planning, development, testing, and evaluation. <i>Fall, Spring.</i></p>	<p><b>ETI 4448</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Applied Project Management:</b> PR: Junior Standing. 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. <i>Spring.</i></p>	<p><b>ETM 4220</b>      <b>ECS-ENT</b>      <b>4(4,0)</b>  <b>Applied Energy Systems:</b> PR: MAC 2253 or MAC 2311; Chemistry, College Physics. Introduction to energy, work, and thermal systems and processes. Applications of heat energy with emphasis on solar energy. <i>Spring.</i></p>
<p><b>ETI 3116</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Applied Engineering Quality Assurance:</b> PR: STA 2014C or STA 2023. Fundamentals of industrial quality control. Technical specifications, measurements standards, inspection, and gaging. Process control techniques. <i>Fall.</i></p>	<p><b>ETI 4480C</b>      <b>ECS-ENT</b>      <b>3(2,2)</b>  <b>Applied Robotics:</b> PR: EST 3543C. Robotics programming for multifunction part manipulation and motions with stepper and servo-motor robot applications in laboratory work. <i>Occasional.</i></p>	<p><b>ETM 4225</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Manufacturing of Photonics:</b> PR: EST 3222. Manufacturing processes and practices of photonic devices and systems. Tolerance studies, manufacturing lines, tests, measurements, and other topics related to low and high volume photonics manufacturing. <i>Fall.</i></p>
<p><b>ETI 3418C</b>      <b>ECS-ENT</b>      <b>3(2,2)</b>  <b>Computer Numerical Controls - Machining Applications:</b> PR: ETD 3350C. Theory of methods and concepts for machining, computer numerical controls/programs, types of operations, cutting tools, machine tools, and electrical discharge machines. May be repeated for credit. <i>Occasional.</i></p>	<p><b>ETI 4635</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Technical Administration:</b> PR: Junior Standing. Techniques of applying management principles to professional positions held by Engineering Technologists. Management functions of planning, organizing, motivating, and controlling, production, sales, and service. <i>Fall, Spring.</i></p>	<p><b>ETM 4232C</b>      <b>ECS-ENT</b>      <b>4(3,2)</b>  <b>Applied Heat Transfer:</b> 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. <i>Spring.</i></p>
<p><b>ETI 3421</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Materials and Processes:</b> PR: MAC 1105 and MAC 1114 or equivalent; Chemistry. A study of fundamental properties of materials. Current industrial practices in founding, forming, joining and shaping processes. <i>Fall.</i></p>	<p><b>ETI 4640</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Operations Management for Technologists:</b> PR: ETI 4635. Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MTM are covered. <i>Fall.</i></p>	<p><b>ETM 4331C</b>      <b>ECS-ENT</b>      <b>4(3,2)</b>  <b>Applied Fluid Mechanics:</b> PR: MAC 2253 or MAC 2311; PHY 2053C or equivalent. An introduction to the basic concepts of hydrostatics and hydrodynamics covering fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc. <i>Occasional.</i></p>
<p><b>ETI 3651C</b>      <b>ECS-ENT</b>      <b>3(2,2)</b>  <b>Computer Applications:</b> PR: MAC 1105, and Junior standing. Standard engineering software packages found in most companies, institutions, and organizations to solve engineering problems. <i>Fall, Spring.</i></p>	<p><b>ETI 4661C</b>      <b>ECS-ENT</b>      <b>3(2,2)</b>  <b>Applied Facilities Planning and Design:</b> PR: ETI 3421, engineering drawing and senior standing. The design of manufacturing facilities and material handling systems. <i>Occasional.</i></p>	<p><b>ETM 4403C</b>      <b>ECS-ENT</b>      <b>3(2,2)</b>  <b>Applied Kinematics:</b> PR: ETG 3541 and Engineering Drawing. Analysis and design of machine elements and mechanisms involving velocities and accelerations of components, linkages, gears, and cams. <i>Occasional.</i></p>
<p><b>ETI 3671</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Technical Economic Analysis:</b> PR: MAC 1105 or equivalent. Analysis of cost elements in technical operations. Basis for comparison of alternatives. <i>Spring.</i></p>	<p><b>ETI 4700</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Occupational Safety:</b> PR: Junior standing. Accident prevention and the operation of an industrial safety program. Basic requirements of the Occupational Safety and Health Act standards. <i>Occasional.</i></p>	<p><b>ETM 4512C</b>      <b>ECS-ENT</b>      <b>3(2,2)</b>  <b>Applied Design of Machine Elements:</b> PR: ETG 3541, ETG 3533C, and Engineering Drawing. Design of basic machine elements, including cams, gears, bearings, and coupling, taking into account loads, stresses, and strength of materials. <i>Occasional.</i></p>
<p><b>ETI 3690</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Technical Sales:</b> PR: Junior standing or C.I. Application of technical knowledge to sales and service. Relationship of technical sales organization to production, customers, and competitors. <i>Even Spring.</i></p>	<p><b>ETI 4835</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Rocket Propulsion Technology:</b> 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. <i>Fall.</i></p>	<p><b>ETM 4755</b>      <b>ECS-ENT</b>      <b>4(4,0)</b>  <b>Applied Air Conditioning:</b> PR: ETM 4331C. Analysis of body comfort, psychometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements. <i>Occasional.</i></p>
<p><b>ETI 4150</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Spacecraft Quality Assurance And Testing:</b> PR: PHY 2053C. Quality assurance, reliability, and testing of space hardware and software, with the examination of designing, manufacturing, testing, and operation. <i>Occasional.</i></p>	<p><b>ETI 4836</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Space Systems Technology:</b> 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. <i>Fall.</i></p>	<p><b>EUH 2000</b>      <b>CAH-HIST</b>      <b>3(3,0)</b>  <b>Western Civilization I:</b> A survey of western civilization from ancient to 1648. <i>Fall, Spring.</i></p>
<p><b>ETI 4186</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Applied Reliability:</b> PR: ETI 3116. Practical application of reliability concepts and analysis applicable to the design, production and logistics phases of systems and system components. <i>Odd Spring.</i></p>	<p><b>ETI 4837C</b>      <b>ECS-ENT</b>      <b>3(2,2)</b>  <b>Technology of Small Space Payloads:</b> PR: ETI 4836 and high level programming lang. 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. <i>Fall.</i> M&amp;S fee: \$34.60</p>	<p><b>EUH 2000H</b>      <b>CAH-HIST</b>      <b>3(3,0)</b>  <b>Honors Western Civilization I:</b> PR: Permission of Honors. A survey of western civilization from ancient to 1648. Honors-level content. <i>Fall, Spring.</i></p>
<p><b>ETI 4205</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Applied Logistics:</b> 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. <i>Fall.</i></p>	<p><b>ETI 4838</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Flight Dynamics Technology:</b> PR: PHY 2053C, Calculus I, II, CAD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analysis; orbital maneuvering; atmospheric re entry; launch windows; rocket apogee and down range computations; wind corrections and launch angles. <i>Spring.</i></p>	<p><b>EUH 2001</b>      <b>CAH-HIST</b>      <b>3(3,0)</b>  <b>Western Civilization II:</b> A survey of western civilization from 1648 to present. May be taken before EUH 2000. <i>Fall, Spring.</i></p>
<p><b>ETI 4381</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Ground System Design:</b> 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. <i>Occasional.</i></p>	<p><b>ETI 4839</b>      <b>ECS-ENT</b>      <b>3(3,0)</b>  <b>Space Electro-Optics Technology:</b> PR: PHY 2053C, Calculus I, II, CAD. Engineering aspects of current electro-optics and laser-optics technology in theory and application, including design, system integration, system alignment, system calibration, and testing. <i>Occasional.</i></p>	<p><b>EUH 2001H</b>      <b>CAH-HIST</b>      <b>3(3,0)</b>  <b>Honors Western Civilization II:</b> PR: Permission of Honors. A survey of western civilization from 1648 to present. May be taken before EUH 2000. Honors-level content. <i>Fall, Spring.</i></p>
<p><b>ETI 4382C</b>      <b>ECS-ENT</b>      <b>3(1,4)</b>  <b>Launch Processing Technology:</b> 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. <i>Occasional.</i></p>		<p><b>EUH 3122</b>      <b>CAH-HIST</b>      <b>3(3,0)</b>  <b>Medieval Society and Civilization:</b> PR: EUH 2000 and 2001 or C.I. <i>Fall, Spring.</i></p>

## UCF Courses and Descriptions

<p><b>EUH 3142</b> CAH-HIST 3(3,0)  <b>Renaissance and Reformation:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 4400</b> CAH-HIST 3(3,0)  <b>The History of Ancient Greece:</b> PR: EUH 2000, EUH 2001 or WOH 2012, WOH 2022. Systems of government in the various city-states of the ancient Greek world from the Bronze Age through the Hellenistic era (C. 1200BCE-30BCE). <i>Occasional.</i></p>	<p><b>EUH 5285</b> CAH-HIST 3(3,0)  <b>Colloquium in Europe Since World War II:</b> PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history since WW II. <i>Occasional.</i></p>
<p><b>EUH 3235</b> CAH-HIST 3(3,0)  <b>Romanticism and Realism:</b> PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservation; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism. <i>Occasional.</i></p>	<p><b>EUH 4465</b> CAH-HIST 3(3,0)  <b>Hitler's Third Reich:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 5371</b> CAH-HIST 3(3,0)  <b>Colloquium in Spanish History:</b> PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Spanish history. <i>Occasional.</i></p>
<p><b>EUH 3242</b> CAH-HIST 3(3,0)  <b>Modern Europe and the First World War:</b> A survey of the impact of the democratic institutions, education, transportation, housing, health, mass communications, entertainment, women, and warfare. <i>Occasional.</i></p>	<p><b>EUH 4500</b> CAH-HIST 3(3,0)  <b>English History to 1485:</b> PR: EUH 2000 and 2001 or C.I. <i>Occasional.</i></p>	<p><b>EUH 5415</b> CAH-HIST 3(3,0)  <b>Rome and Early Christianity:</b> 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. <i>Occasional.</i></p>
<p><b>EUH 3281</b> CAH-HIST 3(3,0)  <b>Second World War and Rebirth of Europe:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 4501</b> CAH-HIST 3(3,0)  <b>English History: 1485-1815:</b> PR: EUH 2000 and 2001 or C.I. <i>Occasional.</i></p>	<p><b>EUH 5546</b> CAH-HIST 3(3,0)  <b>Colloquium: British History:</b> 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. <i>Occasional.</i></p>
<p><b>EUH 3315</b> CAH-HIST 3(3,0)  <b>History of Modern Spain:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 4502</b> CAH-HIST 3(3,0)  <b>British History: 1815-Present:</b> PR: EUH 2000 and 2001 or C.I. <i>Occasional.</i></p>	<p><b>EUH 5579</b> CAH-HIST 3(3,0)  <b>Colloquium in Soviet Russia:</b> PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Russian history, 1911-present. <i>Occasional.</i></p>
<p><b>EUH 3411</b> CAH-HIST 3(3,0)  <b>Ancient Rome:</b> PR: EUH 2000 and EUH 2001 or C.I. Romans and their contributions to Western Civilization. Covers traditions of Roman Republic, Carthaginian Wars, Imperial Period. <i>Occasional.</i></p>	<p><b>EUH 4571</b> CAH-HIST 3(3,0)  <b>History of Russia to 1801:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 5595</b> CAH-HIST 3(3,0)  <b>Colloquium in Czarist Russia:</b> PR: Graduate status or senior standing or C.I. Selected topics on the literature of Russia under the Czars prior to 1917. <i>Occasional.</i></p>
<p><b>EUH 3431</b> CAH-HIST 3(3,0)  <b>History of Modern Italy:</b> PR: EUH 2001. The history of modern Italy from the origins of national unification through the post-World War II era. <i>Occasional.</i></p>	<p><b>EUH 4574</b> CAH-HIST 3(3,0)  <b>History of Russia: 1801-1917:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 5608</b> CAH-HIST 3(3,0)  <b>Colloquium European Intellectual History:</b> PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of European intellectual history. <i>Occasional.</i></p>
<p><b>EUH 3431H</b> CAH-HIST 3(3,0)  <b>Honors History of Modern Italy:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 4576</b> CAH-HIST 3(3,0)  <b>History of Russia in the 20th Century:</b> PR: EUH 2000 and 2001 or C.I. War and Revolution, Lenin, Stalinist Period, WWII, The Cold War. Collapse of Soviet Union, the New Russia. <i>Occasional.</i></p>	<p><b>EVR 5930</b> COS-BIOL 1(1,0)  <b>Seminar in Conservation Issues:</b> PR: Graduate status or senior standing or C.I. Contemporary topics stressing a broad base of conservation issues will be the focus of this seminar series. May be repeated for credit, as course content will differ. <i>Occasional.</i></p>
<p><b>EUH 3451</b> CAH-HIST 3(3,0)  <b>History of Modern France:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 4582</b> CAH-HIST 3(3,0)  <b>20th Century Russian Diplomatic History:</b> PR: C.I. Russian diplomatic history from the signing of the Entente Cordiale to the aftermath of the Cold War. <i>Occasional.</i></p>	<p><b>EVT 3062</b> ED-TLP 3(3,0)  <b>Professional Role of the Vocational Teacher:</b> PR: EVT 3371 or C.I. <i>Occasional.</i></p>
<p><b>EUH 3531</b> CAH-HIST 3(3,0)  <b>Medieval Ireland:</b> PR: EUH 2000 and EUH 2001 or C.I. Ireland's historical and cultural development from 1129 to 1607. <i>Occasional.</i></p>	<p><b>EUH 4610</b> CAH-HIST 3(3,0)  <b>Women in European Society: From Medieval to Modern:</b> PR: Junior standing or C.I. This course examines the changing situation of women in Europe from the Middle Ages to the twentieth century. <i>Occasional.</i></p>	<p><b>EVT 3312</b> ED-TLP 3(3,0)  <b>Course Construction in Health Occupations Education:</b> 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. <i>Occasional.</i></p>
<p><b>EUH 3651</b> CAH-HIST 3(3,0)  <b>War and Society:</b> Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers; influence of military on governments; and international efforts to preserve peace. <i>Occasional.</i></p>	<p><b>EUH 4620</b> CAH-HIST 3(3,0)  <b>European Great Powers: 1815-1914:</b> PR: EUH 2000 and 2001 or C.I. Congress of Vienna, Metternich's system Crimean War, unifications of Italy&amp; Germany, the Bismarckian era, the alliance systems, and the outbreak of World War I. <i>Occasional.</i></p>	<p><b>EVT 3365</b> ED-TLP 3(3,0)  <b>General Methods/Testing Evaluation in Vocational Education:</b> General teaching methods, testing and evaluation. Techniques specific to Vocational Education and Industry Training. <i>Odd Fall.</i></p>
<p><b>EUH 4284</b> CAH-HIST 3(3,0)  <b>Fascism and the Totalitarian Dictatorships:</b> 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. <i>Occasional.</i></p>	<p><b>EUH 4674</b> CAH-HIST 3(3,0)  <b>Sport and Society in the Ancient World:</b> PR: EUH 2000, EUH 2001 or WOH 2012, WOH 2022. A comparison of the original form of the Olympic Games (and ancient notions of sport) to their modern counterparts. <i>Occasional.</i></p>	<p><b>EVT 3367</b> ED-TLP 3(3,0)  <b>Evaluation of Vocational Instruction:</b> PR: EVT 3371 or C.I. Study, practice, and achievement of competency in assessing student cognitive, affective, and psychomotor performance in vocational education. <i>Spring.</i></p>
	<p><b>EUH 5247</b> CAH-HIST 3(3,0)  <b>Colloquium in Europe from 1919-1939:</b> 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. <i>Occasional.</i></p>	<p><b>EVT 3371</b> ED-TLP 3(3,0)  <b>Course Construction in Industrial Education:</b> PR: EVT 3365 or C.I. Planning and preparing instructional materials, organizing and managing the Industrial Education laboratory, and involvement in VICA. <i>Occasional.</i></p>

## UCF Courses and Descriptions

<b>EVT 3502</b>	<b>ED-TLP</b>	<b>3(3,0)</b>	<b>EXP 3604C</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 2107</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Special Needs of Vocational Students:</b> PR: EVT 3365 or C.I. Achievement of teacher competency in meeting the special needs of the handicapped, culturally different, slower learner, those with basic skill deficiencies, and those in non-traditional programs. <i>Spring.</i>			<b>Cognitive Psychology:</b> PR: PSY 2012. Theory and research on attention, memory, complex human learning, and problem solving. <i>Fall, Spring.</i>			<b>Script Analysis:</b> CR: ENC 1101, FIL 1007. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional filmmaking and screenwriting. <i>Fall, Spring.</i>		
<b>EVT 4065</b>	<b>ED-TLP</b>	<b>4(4,0)</b>	<b>EXP 4507C</b>	<b>COS-PSYCH</b>	<b>3(1,4)</b>	<b>FIL 2200</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Principles and Practices of Vocational Education:</b> PR: EVT 3365 or C.I. Study of the history, structure, and current status of vocational education. Achievement of competency in applying principles of vocational education to vocational student organizations, advisory committees, and economic development. <i>Fall.</i>			<b>Advanced Human Memory and Cognition:</b> PR: PSY 3213C, EXP 3604C. In-depth coverage of experimental research on human memory and cognition. <i>Occasional.</i> M&S fee: \$15.00			<b>Cinematography I:</b> PR: Film majors, FIL 2274C, FIL 2220. Concepts and tools of cinematography and lighting. <i>Fall.</i> M&S fee: \$45.00		
<b>EVT 4169</b>	<b>ED-TLP</b>	<b>3(3,0)</b>	<b>EXP 5208</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 2220</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Curriculum Development Techniques for Industry Training:</b> The practical application of fundamental knowledge, important skills, alternative analysis methods, and the critical elements of the trainers analysis tasks. <i>Spring.</i>			<b>Sensation and Perception:</b> 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. <i>Odd Spring.</i>			<b>Directing I:</b> PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Introduction to processes and techniques of directing. <i>Spring.</i>		
<b>EVT 4368</b>	<b>ED-TLP</b>	<b>3(3,0)</b>	<b>EXP 5254</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 2221</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Advanced Teaching Techniques for Vocational Education:</b> PR: EVT 3365 or C.I. Study, practice, and achievement of techniques including cooperative learning, simulation, instructional modeling and evaluation of instructional effectiveness. <i>Fall.</i>			<b>Human Factors and Aging:</b> PR: Graduate status, post-bac, 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 environmental and task design. <i>Even Fall.</i>			<b>Acting for Film I:</b> PR: BFA Film majors. Acting through use of various acting techniques, developing an ability to direct and work with actors effectively. <i>Fall.</i>		
<b>EVT 4815</b>	<b>ED-TLP</b>	<b>3(3,0)</b>	<b>EXP 5256</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 2224C</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Safety in the Technical Education Classroom and Laboratory:</b> PR: EVT 3365 or C.I. Federal regulations, safety practices, guidance, and support materials for technical trainers and teachers in school and industrial settings. <i>Occasional.</i>			<b>Human Factors I:</b> PR: Graduate status or senior standing or C.I. Survey of human factors literature. Introduction to topics including human capabilities and human interfaces with human-machine systems. <i>Fall.</i>			<b>Foundations of Production:</b> Production techniques for non-majors. Introduction to basic techniques used in film making. Students must supply their own video equipment and editing equipment. Any format is acceptable. <i>Fall, Spring.</i>		
<b>EVT 5260</b>	<b>ED-TLP</b>	<b>2-4(2-4,0)</b>	<b>EXP 5445</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 2274C</b>	<b>CAH-FILM</b>	<b>3(3,2)</b>
<b>Cooperative Programs in Vocational Education:</b> 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. <i>Occasional.</i>			<b>Psychology of Learning and Motivation:</b> PR: DEP 5057, and graduate status or senior standing or C.I. Examination of theories and research concerning the acquisition and retention of behavior, as well as motivational factors which influence learning and behavior. <i>Occasional.</i>			<b>Editing I:</b> PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems. <i>Spring.</i> M&S fee: \$45.00		
<b>EVT 5561</b>	<b>ED-TLP</b>	<b>2-3(2-3,0)</b>	<b>FIL 1001</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>	<b>FIL 2400</b>	<b>CAH-FILM</b>	<b>3(2,2)</b>
<b>Student Guidance in the Vocational Program:</b> 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. <i>Occasional.</i>			<b>Cinema Survey:</b> Introductory course that focuses on different approaches to studying cinema. <i>Fall, Spring.</i>			<b>History of Motion Pictures:</b> The history of motion pictures as art and industry; from 1895 to the present. <i>Fall, Spring.</i> M&S fee: \$25.00		
<b>EVT 5817</b>	<b>ED-TLP</b>	<b>2-4(2-4,0)</b>	<b>FIL 1001H</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>	<b>FIL 2532</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Management of Vocational Programs:</b> 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. <i>Occasional.</i>			<b>Honors Cinema Survey:</b> PR: Permission of Honors. Introductory course that focuses on different approaches to studying cinema. Honors-level content. <i>Fall, Spring.</i>			<b>The American Film Artist:</b> 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. <i>Fall.</i> M&S fee: \$10.00		
<b>EXP 3204C</b>	<b>COS-PSYCH</b>	<b>4(3,2)</b>	<b>FIL 1007</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>	<b>FIL 3006</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Perception:</b> PR: PSY 2012, PSY 3213C. Consideration of physical and psychological variables in perceptual phenomena. Lecture/Lab. <i>Fall.</i>			<b>Foundations of Story:</b> Analysis of dramatic and cinematic narrative structures, both plot and character, from an historical and cultural perspective. <i>Fall, Spring.</i>			<b>Art of the Cinema:</b> An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound. <i>Fall, Spring.</i> M&S fee: \$25.00		
<b>EXP 3250</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 1008</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>	<b>FIL 3102</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Principles of Human Factors Psychology:</b> PR: PSY 2012. The study of human performance in human-machine-environment systems. Topics will include human factors psychology in the design of displays and controls, human information processing, and the effects of some environmental variables on human performance. <i>Spring.</i>			<b>Cinematic Expression/Aesthetics:</b> Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles. <i>Fall, Spring.</i> M&S fee: \$13.00			<b>Writing for Film and TV:</b> 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. <i>Fall, Spring.</i>		
<b>EXP 3304</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 1009</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>	<b>FIL 3106C</b>	<b>CAH-FILM</b>	<b>3(2,3)</b>
<b>Motivation:</b> PR: PSY 2012. Psychological and physiological aspects of human motivation. <i>Spring.</i>			<b>Cinematic Expression for Majors:</b> PR: FIL 1007 or FIL 1100. Analysis and practice of aesthetic principles essential in film-making, including composition, moving graphics, image design, and lighting styles. <i>Spring.</i>			<b>Introduction to Scriptwriting:</b> PR: Film majors only. Rudiments of scriptwriting, including visual storytelling, story structure, character, dialogue, and introduction to scriptwriting software. <i>Occasional.</i>		
<b>EXP 3404</b>	<b>COS-PSYCH</b>	<b>3(3,0)</b>	<b>FIL 1100</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>	<b>FIL 3124</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
<b>Basic Learning Processes:</b> PR: PSY 2012. Theory and research on learning phenomena. <i>Occasional.</i>			<b>Foundations of Story for Majors:</b> PR: Pending Film majors or Film minors. Analysis of dramatic and cinematic narrative structures, both plot and character, from a historical and cultural perspective. <i>Occasional.</i>			<b>Short Script I:</b> 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. <i>Fall, Spring.</i>		
			<b>FIL 1226</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>	<b>FIL 3125</b>	<b>CAH-FILM</b>	<b>3(3,0)</b>
			<b>Film Production Tools:</b> Basic tools of filmmaking, including digital video cameras, 16 mm cameras, basic lighting equipment, non-linear editing equipment, sound recording and mixing, laboratory processing, and digital post-production. <i>Occasional.</i>			<b>Short Script II:</b> PR: Film major, FIL 3124. Advanced writing of short scripts in preparation for Capstone 1 and 2 courses. <i>Even Spring.</i>		

<b>FIL 3201C</b> CAH-FILM 3(2,4) <b>Introduction to Film Production:</b> PR: Film majors, FIL 2107. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production. <i>Fall</i> . M&S fee: \$45.00	<b>FIL 3401</b> CAH-FILM 3(3,0) <b>Film History I:</b> 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. <i>Fall</i> .	<b>FIL 3521</b> CAH-LANG 3(3,0) <b>French Film:</b> The study of French cinema as an art form and the key role of the director. Films are analyzed from structural, social, economical, and historical perspectives with attention to their relationship with French literature. Taught in English. <i>Occasional</i> .
<b>FIL 3225</b> CAH-FILM 3(3,0) <b>Acting for Film II:</b> PR: BFA Film majors, FIL 2221 or C.I. Characterization and scene study as it applies to working in front of the camera. <i>Spring</i> .	<b>FIL 3402</b> CAH-FILM 3(3,0) <b>Film History II:</b> 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. <i>Spring</i> .	<b>FIL 3522</b> CAH-LANG 3(3,0) <b>German Film:</b> 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. <i>Occasional</i> .
<b>FIL 3229</b> CAH-FILM 3(0,3) <b>Film Production Technology Workshop:</b> PR: Restricted to Film majors. Demonstrations and hands-on equipment workshops to understand and operate the tools of the film-making process. May be repeated for credit. <i>Occasional</i> .	<b>FIL 3410</b> CAH-FILM 3(3,0) <b>History of Animated Films I:</b> 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. <i>Even Fall</i> .	<b>FIL 3531</b> CAH-FILM 3(3,0) <b>Advanced Story Structure Research:</b> PR: Majors only. Early and contemporary theories of story structure. Identification of divergent ideas without dilution, development of new language, and recognition of patterns in complex structures. <i>Occasional</i> .
<b>FIL 3236C</b> CAH-FILM 3(3,6) <b>Advanced Documentary Production:</b> PR: FIL 3300C. Processes and principles of advanced documentary production to capture on-going reality based situations. <i>Occasional</i> . M&S fee: \$14.00	<b>FIL 3412</b> CAH-FILM 3(4,0) <b>Black Cinema:</b> PR: Junior standing and ENC 1102. Independent black film movements; theory, aesthetics and criticism of African-American, African-Canadian and African-Caribbean cinema. <i>Fall</i> .	<b>FIL 3542</b> CAH-FILM 3(3,0) <b>Cinema Criticism Writing:</b> PR: ENC 1102, FIL 2400, FIL 3401, FIL 3402 and FIL 3503C. Modes of cinema criticism. <i>Occasional</i> .
<b>FIL 3252C</b> CAH-FILM 3(3,1) <b>Cinematic Expression:</b> PR: FIL 2400. Cinematography using video format; study of fundamentals of motion-picture communication, film structure and storytelling. <i>Spring</i> .	<b>FIL 3418</b> CAH-FILM 3(3,0) <b>Avant-Garde Cinema:</b> PR: Junior standing or C.I. History and aesthetics of Avant-Garde Cinema with an emphasis on post WWII North American films and filmmakers. <i>Spring</i> . M&S fee: \$10.00	<b>FIL 3551</b> CAH-FILM 3(3,0) <b>American Cinema:</b> PR: Film major. Lectures, films and forums designed to provide awareness of styles, images, and myths in cinema that influence or reflect our culture. <i>Spring</i> .
<b>FIL 3269</b> CAH-FILM 3(3,0) <b>Cinema Directors:</b> 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. <i>Occasional</i> .	<b>FIL 3503C</b> CAH-FILM 3(3,1) <b>Film Theory and Criticism I:</b> PR: FIL 2107 and Film or Cinema Studies major. Major film theories to the Second World War Period. <i>Fall</i> . M&S fee: \$10.00	<b>FIL 3625</b> CAH-DIG 3(3,0) <b>Interactive Entertainment:</b> PR: FIL 3201C or DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001; and Film or Digital Media major. Ways to apply diverse skills of film making to digital media, non-linear story telling, virtual reality, video games and non-traditional education and military simulation. <i>Fall, Spring</i> .
<b>FIL 3286C</b> CAH-ART 3(2,4) <b>Introduction to Animation:</b> 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. <i>Fall, Spring</i> . M&S fee: \$35.00	<b>FIL 3504C</b> CAH-FILM 3(3,1) <b>Film Theory and Criticism II:</b> PR: FIL 3503C and Film or Cinema Studies major. Major film theories from Second World War period to present. <i>Spring</i> . M&S fee: \$10.00	<b>FIL 3922</b> CAH-FILM 1(1,1) <b>Film Colloquium:</b> 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. <i>Fall, Spring</i> .
<b>FIL 3287C</b> CAH-ART 3(2,4) <b>Intermediate Animation:</b> 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. <i>Even Fall, Spring</i> . M&S fee: \$35.00	<b>FIL 3510</b> CAH-FILM 3(3,0) <b>World Cinema Traditions:</b> 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. <i>Fall, Spring</i> .	<b>FIL 4103</b> CAH-FILM 3(3,0) <b>Adaptation:</b> 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. <i>Occasional</i> .
<b>FIL 3297</b> CAH-FILM 3(3,0) <b>Sound Design I:</b> PR: Film or Digital Media major. Technical aspects of production and post-production sound recording, editing, and mixing. <i>Fall, Spring</i> .	<b>FIL 3511</b> CAH-FILM 3(3,0) <b>French New Wave Cinema:</b> PR: FIL 2400. Post-World War II period of the French cinema, emphasizing the work of Renoir, Bresson, Godard, Rohmer, Resnais, and Rivette. <i>Occasional</i> .	<b>FIL 4111C</b> CAH-FILM 3(2,3) <b>Feature/TV Writing I:</b> PR: Film major and FIL 3124. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting. <i>Fall</i> .
<b>FIL 3300C</b> CAH-FILM 3(3,1) <b>Film Documentary:</b> PR: Film or Cinema Studies major, FIL 3201C or FIL 3229. The uses and analysis of the non-fiction film. <i>Fall</i> . M&S fee: \$15.00	<b>FIL 3512</b> CAH-FILM 3(3,0) <b>Italian Neo-Realist Cinema:</b> PR: FIL 2400. Post-World War II period of the Italian cinema, with emphasis on the work of Antonioni, Visconti, Pasolini, Fellini, and Rossellini. <i>Even Fall, Spring</i> .	<b>FIL 4112C</b> CAH-FILM 3(2,3) <b>Feature/TV Writing II:</b> PR: Film major, FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage. <i>Spring</i> .
<b>FIL 3304C</b> CAH-FILM 3(1,3) <b>Documentary Vision:</b> PR: Film major and FIL 3201C. Styles and approaches to documentary filmmaking, with emphasis on making short, personal films. <i>Spring</i> .	<b>FIL 3513</b> CAH-FILM 3(3,0) <b>Latin American Cinema:</b> PR: FIL 3503C and FIL 3504C. Latin American films and film movements, historical and contemporary issues, social, and aesthetic concerns. <i>Spring</i> .	<b>FIL 4113C</b> CAH-FILM 3(2,3) <b>Interactive Writing I:</b> 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. <i>Occasional</i> .
<b>FIL 3307</b> CAH-FILM 3(3,0) <b>Docudrama:</b> PR: FIL 2220. Techniques to dramatize real-life events and persons, with emphasis on representation, adaptation and ethics. <i>Occasional</i> .	<b>FIL 3514</b> CAH-FILM 3(3,0) <b>International Cinema:</b> PR: FIL 2400. Post-World War II period of the international cinema, with emphasis on the cinemas of Europe and Asia. <i>Occasional</i> .	<b>FIL 4114C</b> CAH-FILM 3(3,2) <b>Interactive Writing II:</b> 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. <i>Occasional</i> .
<b>FIL 3309</b> CAH-FILM 3(3,1) <b>Women in Film:</b> 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. <i>Fall, Spring</i> .	<b>FIL 3520</b> CAH-LANG 3(3,0) <b>Italian Film:</b> This course attempts to stimulate and/or increase the interest of students in Italian cinema as an art form with the director playing the key role. Films by most outstanding Italian movie directors will be analyzed from a social, economic, and historical point of view. <i>Occasional</i> .	

## UCF Courses and Descriptions

<p><b>FIL 4127C</b> CAH-FILM 3(2,2)  <b>Motion Picture Genre:</b> PR: FIL 2400. Analysis and evaluation of films, including their major genres, directors, styles, and periods. <i>Even Fall.</i> M&amp;S fee: \$10.00</p>	<p><b>FIL 4288C</b> CAH-ART 3(2,4)  <b>Advanced Animation:</b> PR: Animation majors only, FIL 3286C, FIL 3287C, and a satisfactory portfolio review or C.I. Advanced 3D modeling and animation techniques. Working in small production teams, students will create short animated segments using a high-end 3D animation system. May be repeated for credit. <i>Fall, Odd Spring.</i> M&amp;S fee: \$35.00</p>	<p><b>FIL 5165</b> CAH-FILM 3(3,0)  <b>Visual Storytelling:</b> PR: Admission to Film and Digital Media master's program or C.I. Traditional forms of visual storytelling ranging from storyboarding to classic structural paradigms for feature film scripts. <i>Fall.</i></p>
<p><b>FIL 4202C</b> CAH-FILM 3(2,4)  <b>Intermediate Film Production:</b> PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking. <i>Occasional.</i> M&amp;S fee: \$45.00</p>	<p><b>FIL 4289C</b> CAH-ART 3(2,4)  <b>Animation Workshop:</b> PR: Animation majors only, FIL 3286C, FIL 3287C, FIL 4288C, and a satisfactory portfolio review or C.I. A production level course in computer animation that emphasizes all phases of the commercial production process, including storyboard, budgets, client relations, and post-production. May be repeated for credit. <i>Fall, Spring.</i> M&amp;S fee: \$35.00</p>	<p><b>FIL 5609</b> CAH-FILM 3(3,0)  <b>Film and Internet Business:</b> 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. <i>Fall.</i></p>
<p><b>FIL 4203C</b> CAH-FILM 3(2,4)  <b>Capstone I:</b> 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. <i>Fall.</i> M&amp;S fee: \$45.00</p>	<p><b>FIL 4294C</b> CAH-FILM 3(3,2)  <b>Editing II:</b> PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing. <i>Fall.</i> M&amp;S fee: \$45.00</p>	<p><b>FIL 5800</b> CAH-FILM 3(3,0)  <b>Research Methods in Film and Digital Media:</b> PR: Admission to Film and Digital Media graduate program or C.I. Research methodology for the study and production of Film and new Media. <i>Spring.</i></p>
<p><b>FIL 4207</b> CAH-FILM 3(3,0)  <b>Episodic Production:</b> PR: Film or Animation Majors. Episodic film production techniques. <i>Occasional.</i></p>	<p><b>FIL 4301C</b> CAH-FILM 3(1,3)  <b>Documentary Workshop I:</b> PR: FIL 3304C. Socially significant documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media. <i>Fall.</i></p>	<p><b>FIL 5810</b> CAH-DIG 3(3,0)  <b>Transmedia Story Creation:</b> PR: Admission to Film and Digital Media master's program or C.I. Repurposing of traditional stories: creation of authentic environments and the emergence of new authoring scenarios. <i>Fall.</i></p>
<p><b>FIL 4208C</b> CAH-FILM 3(3,1)  <b>Directing II:</b> PR: Film major and FIL 2220. Principles and practice in directing narrative and/or documentary motion pictures. <i>Fall.</i> M&amp;S fee: \$45.00</p>	<p><b>FIL 4302C</b> CAH-FILM 3(1,3)  <b>Documentary Workshop II:</b> PR: FIL 4301C. Advanced documentary projects for community groups, heritage organizations, non-profit agencies and NGOs using film, video and digital media. <i>Spring.</i></p>	<p><b>FIL 5853</b> CAH-FILM 3(3,0)  <b>Cinematic Forms:</b> PR: Graduate standing in Film and Digital Media or C.I. Evolution of cinematic form through the works of key directors and theorists. <i>Spring.</i></p>
<p><b>FIL 4210C</b> CAH-FILM 3(2,4)  <b>Cinematography II:</b> PR: Film major, FIL 3201C, FIL 2200. Advanced principles and practices of cinematography. <i>Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>FIL 4411</b> CAH-FILM 3(3,0)  <b>History of Animated Films II:</b> PR: FIL 3410, and Cinema Studies, Art, Animation or Digital Media major. Growth and diversification of American and international animation since 1945. <i>Spring.</i></p>	<p><b>FIN 2104</b> BA-FIN 3(3,0)  <b>Personal Finance and Investments:</b> 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. <i>Fall, Spring.</i></p>
<p><b>FIL 4211C</b> CAH-FILM 3(1,3)  <b>Capstone II:</b> PR: Film major and FIL 4203C. Intensive tutorial guidance, instruction and evaluation of final film projects in post production. May be repeated for credit. <i>Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>FIL 4506C</b> CAH-FILM 3(2,2)  <b>Genre Writing:</b> PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc. <i>Occasional.</i></p>	<p><b>FIN 3303</b> BA-FIN 3(3,0)  <b>Financial Markets:</b> PR: FIN 3403: open to majors or minors which require this course. The role of short and long-term financial markets and financial institutions in capital formation and allocation. Theories and mathematics of interest rates. <i>Fall, Spring.</i></p>
<p><b>FIL 4212C</b> CAH-FILM 3(3,1)  <b>Sound Design II:</b> PR: FIL 3297, Film or Digital Media major. To provide both professional skills and attitudes and to create an understanding of how production mixers bring the director's vision to the screen. <i>Spring.</i></p>	<p><b>FIL 4564</b> CAH-FILM 3(3,0)  <b>Africana Cinema:</b> PR: FIL 3503C, FIL 3504C. Aesthetics, theory and practice of filmmaking in the African Diaspora. <i>Occasional.</i></p>	<p><b>FIN 3403</b> BA-FIN 3(3,0)  <b>Business Finance:</b> 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. <i>Fall, Spring.</i></p>
<p><b>FIL 4213</b> CAH-FILM 3(3,0)  <b>Sound Design III:</b> PR: FIL 4212C. Advanced aspects of sound mixing and sound editing using advanced protocols and digital format. <i>Occasional.</i></p>	<p><b>FIL 4574</b> CAH-FILM 3(3,0)  <b>Images and Text in Context:</b> PR: FIL 2400 or C.I. Moving images, the still image, and text in their cultural contexts. <i>Occasional.</i></p>	<p><b>FIN 3403H</b> BA-FIN 3(3,0)  <b>Business Finance - Honors:</b> PR: Finance major, ACG 2021, ACG 2071, ECO 2013, ECO 2023 and permission of Honors. Open to University honors students and other students participating in the honors program. Same as FIN 3403 with honors level content. <i>Occasional.</i></p>
<p><b>FIL 4223</b> CAH-FILM 3(3,0)  <b>Design for Film:</b> PR: Film major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction. <i>Fall.</i></p>	<p><b>FIL 4602</b> CAH-FILM 3(3,0)  <b>Film Business:</b> PR: Film major, FIL 4207, FIL 4202C. This is a seminar course taught by a professional in the film industry which deals with issues relating to the organization and production of motion pictures. <i>Spring.</i></p>	<p><b>FIN 3414</b> BA-FIN 3(3,0)  <b>Intermediate Corporate Finance:</b> PR: Fin 3403: open to majors or minors which require this course. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined. <i>Fall, Spring.</i></p>
<p><b>FIL 4228</b> CAH-FILM 3(3,0)  <b>Directing III:</b> PR: Film major, FIL 2200 and FIL 4208C. Advanced processes and techniques of directing. <i>Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>FIL 4604</b> CAH-FILM 3(3,0)  <b>The Film Producer:</b> PR: Film major or Cinema Studies major, and FIL 4208C. The role of the producer is examined in the context of theatrical film. <i>Spring.</i></p>	<p><b>FIN 3470</b> BA-FIN 3(3,0)  <b>Financial Statement Analysis:</b> PR: FIN 3403. Understanding and interpreting financial statement data for business decisions. <i>Occasional.</i></p>
<p><b>FIL 4262C</b> CAH-FILM 4(3,2)  <b>Special Problems in Film Design:</b> A series of exercises in craft, techniques, and design for film production, including animation. <i>Odd Spring.</i> M&amp;S fee: \$20.00</p>	<p><b>FIL 4607</b> CAH-FILM 3(3,0)  <b>Film Production Management:</b> PR: Film major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement. <i>Spring.</i></p>	<p><b>FIN 3504</b> BA-FIN 3(3,0)  <b>Investment Analysis:</b> PR: Fin 3403: open to majors or minors which require this course. A survey of investments, including security markets, investment vehicles, and environment. Principles of asset valuation in efficient markets. <i>Fall, Spring.</i></p>
<p><b>FIL 4280</b> CAH-DIG 3(3,0)  <b>Animated Film-History for non film majors:</b> PR: FIL 3410. Evolution of animation since World War II. <i>Occasional.</i></p>		
<p><b>FIL 4284C</b> CAH-FILM 3(3,1)  <b>Non-Linear Editing:</b> 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. <i>Occasional.</i> M&amp;S fee: \$45.00</p>		



**FIN 4313** BA-FIN 3(3,0)  
**Management of Financial Institutions:** PR: FIN 3303, 3403; open to majors or minors which require this course. Analysis of management policies of financial institutions, including assets liability, and capital management. The economics and regulatory influence on competition is considered. *Occasional.*

**FIN 4324** BA-FIN 3(3,0)  
**Commercial Bank Management:** PR: Fin 3303; open to majors or minors which require this course. Analysis of the intersections of commercial banking policies and an analysis of current approaches to managing specific bank products. *Fall.*

**FIN 4424** BA-FIN 3(3,0)  
**Advanced Topics in Financial Management:** PR: FIN 3414; open to majors or minors which require this course. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively. *Occasional.*

**FIN 4453** BA-FIN 3(3,0)  
**Financial Models:** PR: FIN 3403, FIN 3414, and FIN 3504; open to majors or minors which require this course. Mathematical models applied specifically to financial problems, including those models suitable for representation and solutions on computers. *Fall, Spring.*

**FIN 4514** BA-FIN 3(3,0)  
**Portfolio Analysis and Management:** PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Portfolio and capital market theory in the determination of rational investment policies. Risk analysis, portfolio analysis, and evaluation techniques. *Fall, Spring.*

**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 analyses of Equity portfolio management topics, including risk/return, valuation, forecasting, portfolio construction, and performance appraisal. *Occasional.*

**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. *Occasional.*

**FIN 4533** BA-FIN 3(3,0)  
**Financial Derivatives:** PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Options, futures, forwards, and other derivative contracts. Investments traded in these markets are examined. Pricing and hedging are considered. *Fall, Spring.*

**FIN 4604** BA-FIN 3(3,0)  
**International Financial Management:** PR: FIN 3403; open to majors or minors which require this course. Analysis of the foreign financial methods and investment, currency futures market, capital budgeting, cash management, examination of Eurocurrency market and international bond markets. *Fall, Spring.*

**FIN 4730** BA-FIN 3(3,0)  
**Senior Financial Consulting I:** PR: Finance major, FIN 3403, FIN 3303, CR: FIN 3414, FIN 4453. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design and consulting in projects for major corporations. Part 1 of a two course sequence. Students must register for both semesters. *Occasional.*

**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. *Occasional.*

**FIN 4941** BA-FIN 3(0,3)  
**Finance Internship:** PR: Finance major with at least 6 hours of completed coursework in finance, minimum overall GPA of 2.75 and consent of department chair. Supervised finance work experience in a pre-approved sponsoring organization. See department for information and application. Graded S/U. *Fall, Spring.*

**FIN 5405** BA-FIN 3(3,0)  
**Financial Concepts:** PR: Acceptance into the graduate program, ACG 5005 and ECO 5005, or equivalents. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions. *Occasional.*

**FIN 5407** BA-FIN 1.5(1.5,0)  
**Financial Foundations:** PR: Graduate standing or C.I. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions. *Fall, Spring.*

**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. *Occasional.*

**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. *Occasional.*

**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. *Occasional.*

**FLE 4333** ED-TLP 3(3,0)  
**Foreign Language Teaching in the Secondary School:** PR: EDG 4323, proficiency in the target language and English. Methods of teaching foreign languages at the secondary level within a communicative framework. Current instructional techniques in listening, speaking, reading, and writing skills, testing, error correction. May be repeated for credit. *Occasional.*

**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. *Occasional.*

**FLE 5870** CAH-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. *Occasional.*

**FLE 5875** CAH-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. *Occasional.*

**FOL 3730** CAH-LANG 3(3,0)  
**Romance Philology:** The study of the major Romance Languages and their origins as they developed from Classical and Medieval Latin to their linguistic influences such as Arabic and Provençal. *Occasional.*

**FRE 1005** CAH-MUSIC 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. *Odd Fall.*

**FRE 1120** CAH-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. *Fall, Spring.*

**FRE 1121** CAH-LANG 4(4,1)  
**Elementary French Language and Civilization II:** PR: FRE 1120 or equivalent. Continuation of FRE 1120. *Fall, Spring.*

**FRE 2200** CAH-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. *Fall, Spring.*

**FRE 2201** CAH-LANG 3(3,1)  
**Intermediate French Language and Civilization II:** PR: FRE 2200 or equivalent. Continuation of FRE 2200 with emphasis on French civilization. *Fall, Spring.*

**FRE 2240** CAH-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. *Occasional.*

**FRE 2270** CAH-LANG 8(16,10)  
**Intermediate French Study Abroad:** PR: Elementary French. Intermediate French language and civilization taught in the native environment. *Occasional.*

**FRE 3300** CAH-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. *Fall.*

**FRE 3410** CAH-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. *Occasional.*

**FRE 3420** CAH-LANG 3(3,0)  
**French Composition:** PR: FRE 2201 or equivalent. Development of skills in composition. *Fall.*

**FRE 3423** CAH-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. *Occasional.*

## UCF Courses and Descriptions

<p><b>FRE 3440</b> CAH-LANG 3(3,0)  <b>Business French I:</b> 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. <i>Occasional.</i></p>	<p><b>FRW 3101</b> CAH-LANG 3(3,0)  <b>Survey of French Literature II:</b> PR: FRE 2201 or equivalent. Main literary currents and works of the 19th and 20th centuries. <i>Spring.</i></p>	<p><b>FSS 3008</b> RCHM-HOS 3(3,0)  <b>Culture and Cuisine:</b> PR: FSS 2221C and HFT 3261. The major historical and geographical developments that have affected the creation of the cuisines of the world. <i>Spring.</i></p>
<p><b>FRE 3441</b> CAH-LANG 3(3,0)  <b>Business French II:</b> PR: FRE 3440 or C.I. Introduction to French business language and practices. <i>Occasional.</i></p>	<p><b>FRW 3370</b> CAH-LANG 3(3,0)  <b>Short Stories of 18th, 19th and 20th Centuries:</b> PR: FRE 2201 or equivalent. Selected readings designed to increase reading speed and develop analytical abilities. Authors include: Voltaire, Maupassant, Flaubert, Camus, and others. <i>Occasional.</i></p>	<p><b>FSS 3124</b> RCHM-HOS 3(3,0)  <b>Supply and Procurement Management:</b> PR: HFT 1000 and junior standing or C.I. The purchasing procedures, specifications, and controls of food and related products in the hospitality industry. <i>Occasional.</i> M&amp;S fee: \$45.00</p>
<p><b>FRE 3760</b> CAH-LANG 3(3,0)  <b>Advanced French Oral Communication:</b> PR: FRE 2201 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. <i>Spring.</i></p>	<p><b>FRW 3740</b> CAH-LANG 3(3,0)  <b>The French Literature of Canada:</b> 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. <i>Occasional.</i></p>	<p><b>FSS 3232C</b> RCHM-HOS 3(1,3)  <b>Intermediate Techniques of Food Production:</b> PR: HFT 4250C. An advanced food production course which provides the student the opportunity to develop skills in pantry, garde-manger, garnishing, and convenience foods and services. Laboratory class. <i>Occasional.</i> M&amp;S fee: \$45.00</p>
<p><b>FRE 3780</b> CAH-LANG 3(3,0)  <b>French Phonetics and Diction:</b> French phonology, with emphasis on phonic groupings. <i>Spring.</i></p>	<p><b>FRW 3752</b> CAH-LANG 3(3,0)  <b>French Caribbean Literature:</b> PR: FRE 2201 or equivalent. Literature of the French speaking Caribbean from colonial times to the present, in French. <i>Occasional.</i></p>	<p><b>FSS 4135</b> RCHM-HOS 3(3,0)  <b>Corporate Contract and Managed Services Organizations:</b> PR: HFT 3261. The unique characteristics of managed services including contracting, commodity purchasing, pricing, and revenue management. <i>Occasional.</i></p>
<p><b>FRE 3954</b> CAH-LANG 6(6,0)  <b>Study Abroad in the Caribbean:</b> PR: FRE 2201 or equivalent. Travel through Caribbean islands, studying the diversity within the Creole cultures. May be repeated for credit. <i>Occasional.</i></p>	<p><b>FRW 3760</b> CAH-LANG 3(3,0)  <b>Creole Identity in the French-Speaking World:</b> PR: FRE 2201 or equivalent. Creole literatures and cultures of the Francophone world. <i>Spring.</i></p>	<p><b>FSS 4286C</b> RCHM-HOS 3(3,1)  <b>Catering and Banquet Organization:</b> 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. <i>Occasional.</i> M&amp;S fee: \$45.00</p>
<p><b>FRE 4421</b> CAH-LANG 3(3,0)  <b>Advanced French Conversation:</b> PR: FRE 3760. Advanced conversation on directed topics from various disciplines; literature, art, psychology, philosophy, music, business, and the sciences. <i>Fall.</i></p>	<p><b>FRW 3770</b> CAH-LANG 3(3,0)  <b>Francophone Literature:</b> PR: FRE 2201. The literature of the Francophone world. Students will read, analyze and discuss literary works written in French. <i>Even Spring.</i></p>	<p><b>GEA 4206</b> ECS-CEE 3(3,0)  <b>Physical Geography of North America:</b> Analysis of the North American landscape as affected by climate, vegetation, and geomorphology. <i>Occasional.</i></p>
<p><b>FRE 4422</b> CAH-LANG 3(3,0)  <b>Advanced French Composition:</b> PR: FRE 3420. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. <i>Spring.</i></p>	<p><b>FRW 4281</b> CAH-LANG 3(3,0)  <b>20th Century French Novels:</b> 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 Sarraute. <i>Occasional.</i></p>	<p><b>GEB 1091C</b> BA-BUS 2(1,1)  <b>Foundations of Leadership:</b> PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Business providing a foundation of leadership, scholarship, and service regarding disciplines in the college. <i>Fall, Spring.</i></p>
<p><b>FRE 4471</b> CAH-LANG 6(6,0)  <b>Advanced French Cultural Studies Abroad:</b> 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. <i>Occasional.</i></p>	<p><b>FRW 4310</b> CAH-LANG 3(3,0)  <b>Seventeenth Century French Theatre:</b> PR: FRW 3100. Corneille, Racine, and Moliere. A study of the lives and principal works of the authors. <i>Occasional.</i></p>	<p><b>GEB 2011</b> BA-MAN 3(3,0)  <b>Management:</b> PR: Junior standing. For non-business majors only. The interdisciplinary application of the managerial functions of planning, organizing, leading, and controlling. For Non-Business Major ONLY. <i>Occasional.</i></p>
<p><b>FRE 4500</b> CAH-LANG 3(3,0)  <b>French Civilization and Culture:</b> 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. <i>Occasional.</i></p>	<p><b>FRW 4324</b> CAH-LANG 3(3,0)  <b>20th Century French Drama:</b> PR: FRW 3100 or FRW 3101 or equivalent, or C.I. Concentration on traditional and avant-garde theater after WWII, such as the works of Beckett, Camus, Claudel, Giraudoux, Ionesco, and Sartre; different literary approaches will also be used. <i>Occasional.</i></p>	<p><b>GEB 2350</b> BA-MAR 3(3,0)  <b>Foundations of Business:</b> Introduction to the U.S. business system and the role it plays in a global economy. <i>Fall.</i></p>
<p><b>FRE 4503</b> CAH-LANG 2(2,0)  <b>Quebecois Civilization:</b> 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. <i>Occasional.</i></p>	<p><b>FRW 4440</b> CAH-LANG 3(3,0)  <b>French Literature of the Eighteenth Century:</b> PR: FRW 3100. The philosophical movement: Montesquieu, Vauvenargues, Voltaire, Diderot, Buffon. <i>Odd Fall.</i></p>	<p><b>GEB 3031</b> BA-MAN 6(6,0)  <b>The Cornerstone Course:</b> PR: Junior standing and business major or minor. ACG 2071, ECO 2013, ECO 2023, and CGS 2100C. An orientation to opportunities and challenges facing managers in contemporary business organizations. Introduces competencies of team work, communication, creative thinking, and adapting to change. <i>Fall, Spring.</i></p>
<p><b>FRE 4782</b> CAH-LANG 2(2,0)  <b>Advanced French Phonetics and Diction:</b> PR: 2 years of college level French or equivalent. Intensive exercises in French phonetics and diction with both prose and poetry with particular emphasis on difficulties for speakers of English. <i>Occasional.</i></p>	<p><b>FRW 4532</b> CAH-LANG 3(3,0)  <b>French Romanticism:</b> PR: FRW 3100. Great poets and dramatists of the Romantic Movement: Hugo, Lamartine, Vigny, Musset, and others. <i>Occasional.</i></p>	<p><b>GEB 3113</b> BA-MAN 3(3,0)  <b>How to Start a Business:</b> PR: Sophomore Standing, ECO 2013. Provides background and tools necessary to understand and participate in the entrepreneurial process within a large company, new venture, or growing a small business. <i>Occasional.</i></p>
<p><b>FRT 4552</b> CAH-LANG 3(3,0)  <b>Structural Analysis of Beckett's Watt:</b> 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. <i>Occasional.</i></p>	<p><b>FRW 4552</b> CAH-LANG 3(3,0)  <b>Nineteenth Century French Literature:</b> PR: FRW 3101. Realism and naturalism. <i>Occasional.</i></p>	<p><b>GEB 3356</b> BA-FIN 3(3,0)  <b>Introduction to International Business:</b> PR: Junior standing and business major or minor. ECO 2013, ECO 2023, and ACG 2071. Understanding the interdependence of globalized world economy and similarities and dissimilarities between domestic and international business domain. <i>Fall, Spring.</i></p>
<p><b>FRW 3100</b> CAH-LANG 3(3,0)  <b>Survey of French Literature I:</b> PR: FRE 2201 or equivalent. Main literary currents and works from the Middle Ages through the 18th century. <i>Fall.</i></p>	<p><b>FSS 2221C</b> RCHM-HOS 3(3,1)  <b>Quantity Food Preparation:</b> Basic principles of food and beverage preparation, service, and menu development. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	

<p><b>GEB 3356H</b> BA-FIN 3(3,0)  <b>Introduction to International Business - Honors:</b> PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023, ACG 2071. Understanding the interdependence of globalized world economy and similarities between domestic and international business domain. <i>Occasional.</i></p>	<p><b>GER 1005</b> CAH-MUSIC 1(0,1)  <b>German Diction:</b> This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretti. <i>Odd Spring.</i></p>	<p><b>GER 3272</b> CAH-LANG 2(2,0)  <b>Modern German Civilization Abroad II:</b> 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. <i>Occasional.</i></p>
<p><b>GEB 3814</b> BA-MAN 3(3,0)  <b>Essentials of Human Resource Management for Non-Business Majors:</b> PR: MAN 3025. Provides non-business majors with a review of basic human resource management practices and policies and the organizational role of the HRM function. <i>Occasional.</i></p>	<p><b>GER 1120</b> CAH-LANG 4(4,1)  <b>Elementary German Language and Civilization I:</b> 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. <i>Fall, Spring.</i></p>	<p><b>GER 3420</b> CAH-LANG 3(3,0)  <b>Intensive German Composition:</b> PR: GER 2201 or equivalent. Development of skills in composition. <i>Occasional.</i></p>
<p><b>GEB 3815</b> BA-MAN 3(3,0)  <b>Employee Training for Non-Business Majors:</b> PR: MAN 3025. Employee training needs and practices as performed by supervisors and managers under the direction of organizational specialists. Designed for non-business majors. <i>Occasional.</i></p>	<p><b>GER 1120H</b> CAH-LANG 4(4,1)  <b>Honors Elementary German Language and Civilization I:</b> 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. <i>Occasional.</i></p>	<p><b>GER 3440</b> CAH-LANG 3(3,0)  <b>Business German I:</b> PR: GER 2200. Introduction to German business language and practices. <i>Occasional.</i></p>
<p><b>GEB 4111</b> BA-MAN 3(3,0)  <b>New Venture Finance:</b> PR: FIN 3403. Provides hands-on processes for developing financial information necessary such as budgets and pro forma financial statements to start up a new venture. <i>Odd Fall, Even Spring.</i></p>	<p><b>GER 1121</b> CAH-LANG 4(4,1)  <b>Elementary German Language and Civilization II:</b> PR: GER 1120 or equivalent. Continuation of GER 1120. <i>Fall, Spring.</i></p>	<p><b>GER 3441</b> CAH-LANG 3(3,0)  <b>Business German II:</b> PR: GER 3440. Continuation of Business German I. <i>Occasional.</i></p>
<p><b>GEB 4117</b> BA-MAN 3(3,0)  <b>Business Plan Preparation:</b> PR: MAN 4802. Develop a new venture plan evolving from an original concept through a process that incorporates all the elements of a professionally written business proposal. <i>Fall, Spring.</i></p>	<p><b>GER 1121H</b> CAH-LANG 4(4,1)  <b>Honors Elementary German Language and Civilization II:</b> PR: GER 1120H or equivalent and permission of Honors. Continuation of GER 1120H, with honors-level content. <i>Occasional.</i></p>	<p><b>GER 3470</b> CAH-LANG 6(6,0)  <b>Advanced German Study Abroad:</b> PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment. <i>Occasional.</i></p>
<p><b>GEB 4358</b> BA-FIN 3(3,0)  <b>International Negotiations and Transactions:</b> PR: Finance major, Junior standing and admission to CBA. Focuses on providing an understanding of the concepts and skills required for international negotiations and transactions. <i>Occasional.</i></p>	<p><b>GER 2200</b> CAH-LANG 3(3,1)  <b>Intermediate German Language and Civilization I:</b> PR: GER 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Fall, Spring.</i></p>	<p><b>GER 3760</b> CAH-LANG 3(3,0)  <b>Advanced German Oral Communication:</b> 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. <i>Even Fall.</i></p>
<p><b>GEB 4361</b> BA-FIN 3(3,0)  <b>Business in the International Environment:</b> PR: Finance major, FIN 3403, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector. <i>Occasional.</i></p>	<p><b>GER 2201</b> CAH-LANG 3(3,1)  <b>Intermediate German Language and Civilization II:</b> PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization. <i>Spring.</i></p>	<p><b>GER 3780</b> CAH-LANG 3(3,0)  <b>German Phonetics and Diction:</b> PR: GER 2240. The fundamental principles of German pronunciation. <i>Occasional.</i></p>
<p><b>GEB 4363</b> BA-FIN 3(3,0)  <b>Export and Import Management:</b> PR: Finance major, Junior standing and admission to CBA. Focuses on the management of export/import businesses and provides students with knowledge about international trade. <i>Occasional.</i></p>	<p><b>GER 2210</b> CAH-LANG 3(3,0)  <b>Intensive German Conversation:</b> PR: GER 1121 or C.I. Practical use of the language, leading toward fluency and correctness in speaking. <i>Occasional.</i></p>	<p><b>GER 4422</b> CAH-LANG 3(3,0)  <b>Advanced German Grammar:</b> PR: GER 3760, or any other 3000 level German course. An accelerated grammar course designated for advanced students of the German language. <i>Occasional.</i></p>
<p><b>GEB 5941</b> BA-BUS 1.5(1.5,0)  <b>Professional Business Practicum:</b> PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the MBA program without such experience. <i>Occasional.</i></p>	<p><b>GER 2240</b> CAH-LANG 3(3,0)  <b>German Conversation:</b> PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice. <i>Occasional.</i></p>	<p><b>GER 4510</b> CAH-LANG 3(3,0)  <b>Life and Culture in Nazi Germany:</b> PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German. <i>Occasional.</i></p>
<p><b>GEO 1200</b> ECS-CEE 3(3,0)  <b>Physical Geography:</b> Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution. <i>Fall, Spring.</i></p>	<p><b>GER 2270</b> CAH-LANG 6(6,0)  <b>Intermediate German Study Abroad:</b> PR: GER 1121 or equivalent. Intermediate German language and culture taught in the native environment. <i>Occasional.</i></p>	<p><b>GER 4520</b> CAH-LANG 3(3,0)  <b>Modern Germany:</b> PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to unification and today's Germany. <i>Occasional.</i></p>
<p><b>GEO 2370</b> ECS-CEE 3(3,0)  <b>Resources Geography:</b> Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States. <i>Fall, Spring.</i></p>	<p><b>GER 2271</b> CAH-LANG 2(2,0)  <b>Modern German Civilization Abroad I:</b> PR: One year of College-level German. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. <i>Occasional.</i></p>	<p><b>GEW 3100</b> CAH-LANG 3(3,0)  <b>Survey of German Literature I:</b> PR: GER 2201 or equivalent. Main literary currents and works from the Middle Ages through 19th Century Romanticism. <i>Occasional.</i></p>
<p><b>GEO 3471</b> COS-POLS 3(3,0)  <b>World Political Geography:</b> Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy. <i>Fall, Spring.</i></p>	<p><b>GER 3102</b> CAH-LANG 3(3,0)  <b>Germany - Past to Present:</b> PR: GER 3760 or GER 3420 or equivalent. Cultural development that shaped modern Germany. Students will read and discuss selected texts from different literary periods and view the influences they had on culture and daily life. Course conducted in German. <i>Occasional.</i></p>	<p><b>GEW 3101</b> CAH-LANG 3(3,0)  <b>Survey of German Literature II:</b> PR: GER 2201 or equivalent. Main literary currents and works from 19th Century Realism to the present. <i>Occasional.</i></p>
	<p><b>GER 3370</b> CAH-LANG 3(3,0)  <b>Short Story:</b> PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries. <i>Occasional.</i></p>	<p><b>GEW 3480</b> CAH-LANG 3(3,0)  <b>German Post-War Literature:</b> PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II. <i>Occasional.</i></p>

## UCF Courses and Descriptions

- GEW 4482 CAH-LANG 3(3,0)**  
**German Children's Literature:** PR: GER 2200. A look into the history of German children's literature with a concentration on works after World War II. *Occasional.*
- GEW 4531 CAH-LANG 3(3,0)**  
**The Age of Goethe and Schiller:** PR: GER 2201. Selected texts of Goethe and Schiller are examined, with particular attention to their relationship to both German classicism and German romanticism. *Occasional.*
- GEY 3001 HPA-SOWK 3(3,0)**  
**Gerontology: An Interdisciplinary Overview:** PR: Junior standing or C.I. Study of aging from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit. *Fall.*
- GEY 5007 HPA-NURS 3(3,0)**  
**Women and Healthy Aging:** PR: Graduate standing or senior undergraduate. The examination of the health promotion opportunities and bio-psycho-social challenges of women as they age. *Spring.*
- GEY 5600 ED-TLP 3(3,0)**  
**Physiology of Aging:** PR: BSC 2010C or PCB 3703C or PET 4351C or equivalent. The purpose of this course is to develop the student's understanding of the effects of human aging on various body systems. *Occasional.*
- GEY 5648 COS-PSYCH 3(3,0)**  
**Gerontology: An Interdisciplinary Approach:** PR: Graduate status or senior standing or C.I. The study of aging will be presented from man interdisciplinary and multidisciplinary approach spanning the social sciences and health. *Occasional.*
- GIS 3043C UGST-LIBERAL ST 3(2,2)**  
**GIS for Environmental Studies:** PR: CGS 1060C and BSC 2010C, or C.I. Geographic Information Systems (GIS) technology for environmental analysis. GIS theory with training using ArcGIS, including environmental analysis and facility siting studies. *Odd Fall.*
- GIS 4035C 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. *Occasional.*
- GIS 4301C UGST-LIBERAL ST 4(2,2)**  
**Advanced GIS Applications in Environmental Studies:** PR: GIS 3043C. GIS analysis techniques used in environmental science, including raster overlay site suitability modeling, least-cost optimum paths, 3D digital elevation models, network routing and geostatistical analysis. *Occasional.*
- GLY 1030 COS-CHEM 3(3,0)**  
**Geology and its Applications:** Geologic principles, applications, and hazards including: gemstones, rock cycle, moving continents, mountain building, metal ores, fossil fuels, groundwater, sinkholes, beach erosion, landslides, earthquakes, tidal waves, volcanism. *Fall, Spring.*
- GRA 2101H CAH-ART 3(2,4)**  
**Honors Introduction to Computer Art:** PR: ART 2820 and Consent of Honors. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems. With Honors content. *Occasional.*
- GRA 2111C CAH-ART 3(2,4)**  
**Graphic Design I:** PR: ART 2201C. Basic principles, concepts, and techniques in graphic design and art for visual publication. *Occasional.* M&S fee: \$15.00
- GRA 2140C CAH-ART 3(2,4)**  
**Computer Graphic Design:** PR: Acceptance in Graphic Design Concentration, GRA 3100C, ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Problems involving the use of computer graphic systems for visual publication. *Occasional.* M&S fee: \$15.00
- GRA 2190C CAH-ART 3(2,4)**  
**Design in Advertising:** 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. *Occasional.* M&S fee: \$5.00
- GRA 3100C CAH-ART 3(2,4)**  
**Intermediate Graphic Design I:** PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Methods related to studio projects in graphic design. *Fall.* M&S fee: \$15.00
- GRA 3112C CAH-ART 3(2,4)**  
**Intermediate Graphic Design II:** PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C and a satisfactory portfolio review or C.I. Further development of studio techniques and problems in graphic design with emphasis on digital prepress. *Spring.* M&S fee: \$43.50
- GRA 3113C CAH-ART 3(2,4)**  
**Type & Design:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and publication. *Fall, Odd Spring.* M&S fee: \$15.00
- GRA 3151C CAH-ART 3(2,4)**  
**Illustration:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Pictorial and representational illustration using various media and techniques. *Occasional.*
- GRA 3801C CAH-ART 3(2,4)**  
**Intermediate Computer Graphic Design:** PR: Acceptance in Graphic Design specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 2140C, and a satisfactory portfolio review or C.I. The use of computer graphic systems for electronic publication. *Fall.*
- GRA 4119C CAH-ART 3(2,4)**  
**Packaging Design and Display Systems:** PR: Acceptance in Graphic Design Concentration and GRA 3100C. The visual concepts of packaging design and display systems. Exploration of materials, structures, function and semantic aspects of the packaging industry. *Occasional.*
- GRA 4154C CAH-ART 3(2,4)**  
**Advanced Illustration:** PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3151C, and a satisfactory portfolio review or C.I. Illustration problems involving the use of advanced level techniques in illustration media. May be repeated for credit. *Occasional.* M&S fee: \$45.00
- GRA 4196C CAH-ART 3(2,4)**  
**Advanced Graphic Design:** PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 3151C or ART 3332C, and a satisfactory portfolio review, or C.I. Practical studio problems, with emphasis on organization of visual design elements. *Fall.* M&S fee: \$43.50
- GRA 4197C CAH-ART 3(2,4)**  
**Special Problems in Graphic Design:** PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4320C, and a satisfactory portfolio review, or C.I. Advanced problems in visual design and reproduction. May be repeated for credit. *Spring.* M&S fee: \$15.00
- GRA 4802C CAH-ART 3(2,4)**  
**Advanced Computer Graphic Design:** PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4320C, and a satisfactory portfolio review or C.I. Problems involving the use of advanced computer graphic systems for electronic publication. *Odd Fall.* M&S fee: \$15.00
- GRE 1120H CAH-LANG 4(4,0)**  
**Elementary Greek Language and Civilization I:** PR: Permission of Honors. Introduces students to Classical Greek Literature and civilization through the study of grammar and syntax and extensive readings of Greek texts. *Occasional.*
- GRE 1121H CAH-LANG 4(4,1)**  
**Elementary Greek Language and Civilization II:** PR: GRE 1120H and permission of Honors. Continuation of Elementary Greek I. *Occasional.*
- GRE 2220H CAH-LANG 4(4,0)**  
**Introduction to Greek Literature:** PR: GRE 1121H and permission of Honors. Readings in selected original Greek texts, e.g., Plato's apology. May be repeated for credit. *Occasional.*
- HAI 1120 CAH-LANG 4(4,0)**  
**Elementary Haitian Language and Culture I:** Introduction to Haitian culture through the major language skills; listening, speaking, reading and writing. *Occasional.*
- HAI 1121 CAH-LANG 4(4,0)**  
**Elementary Haitian Language and Culture II:** PR: HAI 1120. A continuation of HAI 1120. *Occasional.*
- HBR 1120 CAH-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. *Fall.*
- HBR 1121 CAH-JUD 4(4,0)**  
**Elementary Modern Hebrew Language and Culture II:** PR: HBR 1120 or equivalent. Continuation of HBR 1120. *Spring.*
- HBR 2200 CAH-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. *Occasional.*

## UCF Courses and Descriptions

HBR 2201 Intermediate Modern Hebrew II: Further development of modern Hebrew language skills in listening, speaking, reading, and writing. <i>Occasional.</i>	CAH-JUD	3(3,0)	HFT 3273 Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare operations and ownership. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)	HFT 3515 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. <i>Odd Fall.</i>	RCHM-HOS	3(3,0)
HBR 3250 Biblical Hebrew: PR: HBR 1121 or C.I. Grammatical and syntactical structure of Biblical Hebrew. <i>Occasional.</i>	CAH-JUD	3(3,0)	HFT 3285 International Restaurant Corporation Management: PR: HFT 3261. The specific principles of managing a restaurant corporation in the international foodservice marketplace. <i>Occasional.</i>	RCHM-HOS	3(3,0)	HFT 3540 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. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)
HBR 3410 Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent, C.I. Study and practice of contemporary conversational Israeli Hebrew. <i>Occasional.</i>	CAH-JUD	3(3,0)	HFT 3313 Hospitality Physical Plant Management: PR: Junior standing. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry. <i>Spring.</i>	RCHM-HOS	3(3,0)	HFT 3574 Food Service Marketing Advertising and Promotion Management: PR: HFT 2500 and HFT 3261. Covers pricing, promotion, menu and product development. <i>Occasional.</i>	RCHM-HOS	3(3,0)
HFT 1000 Introduction to the Hospitality and Tourism Industry: An orientation to the hotel, restaurant, and travel industry, and its history, structure, and operating procedures. <i>Fall, Spring.</i>	RCHM-TEA	3(3,0)	HFT 3353 Golf Planning & Operations I: PR: HFT 2359. Customer relations concepts, an effective golf instruction program, and characteristics of effective merchandising & inventory procedures. <i>Occasional.</i>	RCHM-TEA	3(3,0)	HFT 3600 Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)
HFT 1350 Career & Promotional Development in Golf: PR: HFT 1357. The developmental sequence of lifelong programs for juniors, women, and seniors.; in the golf industry. <i>Spring.</i>	RCHM-TEA	3(3,0)	HFT 3354 Agronomy for Golf Course Management: PR: HFT 3353. Primary roles and responsibilities of the golf course superintendent. <i>Occasional.</i>	RCHM-TEA	3(3,0)	HFT 3610 Law and Restaurant Management: PR: HFT 3600 and HFT 3261. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed. <i>Occasional.</i>	RCHM-HOS	3(3,0)
HFT 1356 Concepts and Practices of Golf Associations: PR: Admission to Professional Golf Management Program; CR HFT 1000. Philosophies and ideals of the Professional Golfers Association of America and the importance of the rules of golf as related to rules decisions. <i>Fall.</i>	RCHM-TEA	3(3,0)	HFT 3355 Golf Planning & Operations II: PR: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models. <i>Occasional.</i>	RCHM-TEA	3(3,0)	HFT 3654 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. <i>Fall.</i>	RCHM-HOS	3(3,0)
HFT 1357 Golf Event Operations: PR: HFT 1356. Develop, plan, and organize golf tournaments of all types. <i>Even Spring.</i>	RCHM-TEA	3(3,0)	HFT 3374 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. <i>Occasional.</i>	RCHM-TEA	3(3,0)	HFT 3670 Hospitality and Event Risk Management: PR: HFT 1000 and HFT 2750; or C.I. Risk, crisis, and liability issues that may arise in the planning and management of special events, meetings, conventions, and exhibitions. <i>Occasional.</i>	RCHM-TEA	3(3,0)
HFT 2220 Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting. <i>Fall, Spring.</i>	RCHM-TEA	3(3,0)	HFT 3431 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. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)	HFT 3700 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. <i>Fall, Spring.</i>	RCHM-TEA	3(3,0)
HFT 2254 Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, house-keeping, engineering, front desk, and guest services. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)	HFT 3443 Event Technology: PR: HFT 1000 and HFT 2750; or C.I. Use of technology in the event industry to solidify processes and help people be more productive. Covers types of technology for different event processes. <i>Occasional.</i>	RCHM-TEA	3(3,0)	HFT 3741 Meeting Management: PR: HFT 4753 and HFT 4754. The process of meeting planning, from setting objectives to analyzing the success of the event. <i>Fall, Spring.</i>	RCHM-TEA	3(3,0)
HFT 2359 Design & Maintenance of Golf Equipment: PR: HFT 1350. Knowledge and application of golf club design principles and club repair procedures. <i>Occasional.</i>	RCHM-TEA	3(3,0)	HFT 3444 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. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)	HFT 3757 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. <i>Fall, Spring.</i> M&S fee: \$37.00	RCHM-TEA	3(3,0)
HFT 2403 Hospitality Industry Financial Accounting: Basic understanding of financial accounting and specifically hospitality industry accounting concepts and procedures used in hotels, restaurants and clubs. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)	HFT 3471 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. <i>Occasional.</i>	RCHM-HOS	3(3,0)	HFT 3770 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. <i>Occasional.</i>	RCHM-TEA	3(3,0)
HFT 2500 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. <i>Fall, Spring.</i>	RCHM-TEA	3(3,0)	HFT 3511 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. <i>Fall.</i>	RCHM-TEA	3(3,0)	HFT 3784 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. <i>Spring.</i>	RCHM-TEA	3(3,0)
HFT 2750 The Event Industry: Overview of meetings, conventions, special events and exhibitions including the roles of organizations and people involved in the businesses that comprise this industry. <i>Fall, Spring.</i>	RCHM-TEA	3(3,0)	HFT 3512 Event Promotion: PR: HFT 1000, HFT 2750, and HFT 2500; or C.I. Promotion of events to sponsors, attendees, exhibitors and other participants. <i>Occasional.</i>	RCHM-TEA	3(3,0)			
HFT 3261 Restaurant Management: PR: HFT 1000 and junior standing or C.I. Discussion of the topics integral for the successful management of restaurant and food service organizations. <i>Fall, Spring.</i>	RCHM-HOS	3(3,0)						

## UCF Courses and Descriptions

<p><b>HFT 3785</b> RCHM-TEA 3(3,0)  <b>Management of Gaming Enterprises:</b> 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. <i>Occasional.</i></p>	<p><b>HFT 4266</b> RCHM-HOS 3(3,0)  <b>Restaurant Brand Management:</b> PR: HFT 3261 and junior standing or C.I. Exploration of the principles of brand management for the corporate restaurant industry. <i>Occasional.</i></p>	<p><b>HFT 4298</b> RCHM-TEA 3(3,0)  <b>Hospitality Business Consulting:</b> 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. <i>Spring.</i></p>
<p><b>HFT 3792</b> RCHM-TEA 3(3,0)  <b>Event Design and Production:</b> PR: HFT 1000, HFT 2750, HFT 3443, and HFT 3670; or C.I. The many aspects of event production, including art, design, and staging. Provides hands on practical experience. <i>Occasional.</i></p>	<p><b>HFT 4268</b> RCHM-HOS 3(3,0)  <b>Case Studies in Restaurant Management:</b> PR: HFT 3261 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and food service management. <i>Fall, Spring.</i></p>	<p><b>HFT 4343</b> RCHM-HOS 3(3,0)  <b>Hospitality Facilities Planning and Design:</b> 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. <i>Odd Fall.</i></p>
<p><b>HFT 3798</b> RCHM-TEA 3(3,0)  <b>Fairs and Festivals:</b> PR: HFT 1000 and HFT 2750; or C.I. Evolution of modern day exhibitions and trade shows from fairs and festivals. <i>Occasional.</i></p>	<p><b>HFT 4269</b> RCHM-HOS 3(3,0)  <b>Case Studies in Multi-Unit Restaurant Management:</b> PR: HFT 3261 Restaurant Management. Application of case study methodology to advanced topics in chain or multi-unit restaurant and foodservice operations. <i>Fall.</i></p>	<p><b>HFT 4358</b> RCHM-TEA 3(3,0)  <b>Golf Course Facility Design:</b> PR: HFT 3355. Golf course and golf facility design from a functional perspective and from a perspective of form. <i>Occasional.</i></p>
<p><b>HFT 3802</b> RCHM-TEA 3(3,0)  <b>Catering Management:</b> PR: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>HFT 4274</b> RCHM-HOS 3(3,0)  <b>Vacation Ownership Resort Management:</b> 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. <i>Occasional.</i></p>	<p><b>HFT 4375</b> RCHM-TEA 3(3,0)  <b>Advanced Trade Show Management:</b> 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. <i>Occasional.</i></p>
<p><b>HFT 3807</b> RCHM-HOS 3(3,0)  <b>Multi-Unit Food Service Operations:</b> 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. <i>Spring.</i></p>	<p><b>HFT 4275</b> RCHM-HOS 3(3,0)  <b>Development of Vacation Ownership Resorts:</b> PR: HFT 3273 and HFT 4473 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the planning and development of vacation resorts. <i>Occasional.</i></p>	<p><b>HFT 4413</b> RCHM-HOS 3(3,0)  <b>Technology Applications for Hospitality Management:</b> PR: HFT 3444 Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations. <i>Odd Spring.</i></p>
<p><b>HFT 3834</b> RCHM-HOS 3(3,0)  <b>Topics in Restaurant and Foodservice Management:</b> PR: HFT 3261 and FSS 2221C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry. <i>Odd Spring.</i></p>	<p><b>HFT 4277</b> RCHM-TEA 3(3,0)  <b>Yacht, Country, And City Club Management:</b> PR: HFT 1000 and junior standing or C.I. A study of the history, development, operation and management of Yacht, Country and City Clubs. Emphasis will be placed on operational aspects. <i>Fall.</i></p>	<p><b>HFT 4425</b> RCHM-HOS 3(3,0)  <b>Financial Analysis for Restaurant Managers:</b> PR: HFT 2403, HFT 3431, and HFT 3261. Topics of unit level economics, budgeting, valuation of restaurant enterprises, ownership models, franchising finance, and securing access to capital through debt and equity markets. <i>Occasional.</i></p>
<p><b>HFT 3868</b> RCHM-HOS 3(3,0)  <b>History and Culture of Wine:</b> PR: World History course or C.I. The role that wine has played in the history, culture, and religion of diverse civilizations. <i>Fall, Spring.</i></p>	<p><b>HFT 4281</b> RCHM-HOS 3(3,0)  <b>Restaurant Leadership Strategies and Tactics:</b> PR: Hospitality Management Core and Restaurant Management Core or C.I. An analysis of the leadership styles of restaurant industry founders and executives. <i>Fall, Spring.</i></p>	<p><b>HFT 4432</b> RCHM-HOS 3(3,0)  <b>Hospitality Industry Auditing:</b> PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides basic fundamentals of eliminating fraud and saving money through proper internal controls in the hospitality industry. <i>Occasional.</i></p>
<p><b>HFT 3933</b> RCHM-TEA 1(1,0)  <b>Distinguished Lectures in Hospitality Management:</b> PR: HFT 1000, Junior standing. First hand introduction to hospitality leaders, their perspectives on the segments they represent, and the breadth of those segments. Graded S/U. <i>Fall, Spring.</i></p>	<p><b>HFT 4284</b> RCHM-HOS 3(3,0)  <b>Training and Employee Performance in the Foodservice Industry:</b> PR: HFT 2220; HFT 3540; HFT 4266; HFT 4268; HFT 4343; FSS 3124; FSS 4135. Teaching and training methodologies relative to the service positions in a restaurant. Encompasses training techniques, guest interaction, and assessment of service performance. <i>Occasional.</i></p>	<p><b>HFT 4442</b> RCHM-HOS 3(3,0)  <b>Vacation Ownership Reservations and Database Systems:</b> PR: HFT 1000, HFT 3273, HFT 4522, HFT 4274 or C.I. Tactics and strategies necessary for owner exchange, information transmittal, and financial reporting. <i>Occasional.</i></p>
<p><b>HFT 3949</b> RCHM-RCHM 0-5(0,1-5)  <b>Cooperative Education:</b> Provides paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major-related learning objectives. <i>Fall, Spring.</i></p>	<p><b>HFT 4286</b> RCHM-TEA 3(3,0)  <b>Hospitality Communications:</b> PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Communication exchanges in the hospitality industry for effective presentations, conflict resolution, and report writing. Emphasis on inter departmental dependence by managers in hospitality enterprises in the areas of reading, writing, speaking, and listening. <i>Fall, Spring.</i></p>	<p><b>HFT 4453</b> RCHM-HOS 3(3,0)  <b>Food, Beverage, and Labor Cost Controls:</b> PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides students with basic fundamentals of food, beverage, and labor cost control systems in the hospitality industry. <i>Fall, Even Spring.</i></p>
<p><b>HFT 4250C</b> RCHM-HOS 3(3,1)  <b>Hospitality Operations:</b> 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. <i>Occasional.</i></p>	<p><b>HFT 4294</b> RCHM-HOS 3(3,0)  <b>Hospitality Enterprises Management II:</b> PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry. <i>Occasional.</i></p>	<p><b>HFT 4462</b> RCHM-HOS 3(3,0)  <b>Hospitality Industry Finance:</b> PR: HFT 3431 and junior standing or C.I. Working knowledge of finance concepts and theories applicable to the Hospitality Industry including evaluating management contracts, franchising, and leasing. <i>Odd Fall, Odd Spring.</i></p>
<p><b>HFT 4253</b> RCHM-HOS 3(3,0)  <b>Hotel Operations:</b> PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Provides the advanced student with first-hand knowledge of the day-to-day operations of a hotel property. Reconciles conflicts between theory and practice in a real life hotel. <i>Spring.</i></p>	<p><b>HFT 4295</b> RCHM-TEA 3(3,0)  <b>Leadership and Strategic Management in Hospitality Industry:</b> PR: Completion of Hospitality Management Core program. Principles of strategic decision making in various hospitality and tourism organizations; lectures, class discussions, and group case analysis presentations. <i>Fall, Spring.</i></p>	<p><b>HFT 4473</b> RCHM-HOS 3(3,0)  <b>Hotel Development Analysis:</b> PR: HFT 3431 and junior standing or C.I. Review of methodological operation, financial, and marketing aspects of analyses for hotel development projects. <i>Even Fall.</i></p>
<p><b>HFT 4255</b> RCHM-HOS 3(3,0)  <b>Advanced Hotel Development:</b> PR: HFT 4462, HFT 4473, or C.I. Hotel investment practices, risk management and other investment decision factors. <i>Occasional.</i></p>		<p><b>HFT 4522</b> RCHM-HOS 3(3,0)  <b>Vacation Ownership Resort Sales Tactics and Strategies:</b> PR: HFT 1000, HFT 3273 or C.I. Sales tactics and corporate strategies employed in the sales and marketing of vacation ownership properties. <i>Occasional.</i></p>

## UCF Courses and Descriptions

HFT 4532	RCHM-TEA	3(3,0)	HFT 4758	RCHM-TEA	3(3,0)	HFT 4894	RCHM-HOS	3(3,0)
<b>Managing the Employee Experience in the Theme Park and Attraction Industry:</b> PR: HFT 4755 and junior standing or C.I. Managing staffing needs, supervision, communication, legal compliance, and retention in the theme parks and attraction industry. <i>Fall.</i>			<b>Contemporary Issues in the Theme Park and Attraction Industry:</b> PR: HFT 4755 and junior standing or C.I. Examination of current issues in the theme park and attractions industry, including hands-on situation analysis. <i>Fall.</i>			<b>International Gastronomy:</b> PR: FSS 2221C, HFT 3700, and C.I. A world view of culture and cuisine that includes an international travel component. May be repeated for credit one time. <i>Spring.</i>		
HFT 4561	RCHM-TEA	3(3,0)	HFT 4759	RCHM-TLS	3(3,0)	HFT 4949	RCHM-RCHM	0-5(0,1-5)
<b>Destination Marketing:</b> PR: HFT 2500 and HFT 3700. Development of destination-oriented marketing goals and strategies with an emphasis on integrated destination marketing. Covers trends and challenges influencing destination marketing. <i>Occasional.</i>			<b>Product Development in Theme Parks and Attractions:</b> PR: HFT 4755 and junior standing or C.I. The strategic management process associated with product development in the theme parks and attraction industry. <i>Spring.</i>			<b>Cooperative Education:</b> Provides paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major-related learning objectives. <i>Fall, Spring.</i>		
HFT 4645	RCHM-HOS	3(3,0)	HFT 4762	RCHM-TEA	3(3,0)	HIM 3006	HPA-HP	3(3,0)
<b>Restaurant Real Estate, Site Selection, and Modeling:</b> PR: Hospitality and Restaurant Management Cores or C.I. Explains the management systems for finding, evaluating, securing, and developing dynamic restaurant real estate locations. <i>Occasional.</i>			<b>Current Practices in the Airline Industry:</b> PR: Junior standing. A survey of the U.S. and International airline industry. Emphasis on the organization and management functions of the airlines. <i>Spring.</i>			<b>Foundations of Health Information Management (HIM):</b> PR: Acceptance into upper-division limited access HIM program or C.I. Foundation of profession; release of information; record analysis; numbering and filing systems; standards for long-term care; ambulatory care; and mental health records. <i>Fall, Spring.</i>		
HFT 4717	RCHM-HOS	3(3,0)	HFT 4786	RCHM-TEA	3(3,0)	HIM 3116C	HPA-HP	4(3,2)
<b>Hospitality Operations II:</b> PR: Junior Standing. A survey of tourism, travel agency, airline, convention and trade show operations from both the U.S. and international perspective. <i>Occasional.</i>			<b>Managing the Guest Experience in the Theme Park and Attraction Industry:</b> PR: HFT 4755. The management of guest needs and expectations in theme parks and attractions. <i>Spring.</i>			<b>Health Record Organization and Management:</b> PR: HIM 3006. Nomenclatures/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization. <i>Spring.</i>		
HFT 4722	RCHM-TEA	3(3,0)	HFT 4787	RCHM-TEA	3(3,0)	HIM 3806L	HPA-HP	4(0,8)
<b>Travel Agency Management:</b> PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations. <i>Occasional.</i>			<b>Operational Issues in the Theme Park and Attraction Industry:</b> PR: HFT 4755. Organizational structure and operational culture of theme parks and attractions. <i>Fall.</i>			<b>Professional Practice Experience I:</b> PR: Admission to HIM program. CR: HIM 3006, HIM 3531 and HIM 3116C. Interdepartmental experience; master patient index; numbering and filing systems; assembly and analysis; incomplete record control; record storage; retention and retrieval; and release of information. <i>Fall, Spring.</i>		
HFT 4735	RCHM-TEA	3(3,0)	HFT 4791	RCHM-TEA	3(3,0)	HIM 3816L	HPA-HP	4(0,8)
<b>Tourism Geography:</b> PR: HFT 3700 and junior standing or C.I. A seminar discussing the main geographical tourism destinations in U.S. and the World. <i>Fall, Spring.</i>			<b>Event Management II:</b> PR: HFT 3670, HFT 3512, HFT 3443, HFT 3792, FSS 2221C, HFT 3802, and HFT 3757. Capstone course in event management. Students produce an event that has been planned in HFT 3757. <i>Occasional.</i>			<b>Professional Practice Experience II:</b> PR: HIM 3806L; and and CR: HIM 4226C, HIM 4256C, HIM 4344C, and HIM 4506. Transcription; coding; quality improvement; risk management; human resources; statistics; accrediting and licensing; revenue management cycle; medical staff organization. <i>Fall, Spring.</i>		
HFT 4736	RCHM-TEA	3(3,0)	HFT 4795	RCHM-TEA	3(3,0)	HIM 4226C	HPA-HP	5(3,4)
<b>Destination Management:</b> PR: HFT 3700. Principles and issues related to destination management; strategies and processes involving design, operations, distribution, networking and impact of tourism at the destination. <i>Occasional.</i>			<b>Entertainment Arts and Events:</b> PR: HFT 2750 and HFT 4755 or C.I. A historical perspective of theme park, event, and attraction entertainment. Covers show development, event production, creative processes, casting, costuming, staffing, and evaluation. <i>Fall, Spring.</i>			<b>Coding Procedures I:</b> PR: HSC 4550, HSC 3531, or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders. <i>Fall, Spring.</i>		
HFT 4752	RCHM-TEA	3(3,0)	HFT 4796	RCHM-TEA	3(3,0)	HIM 4256C	HPA-HP	3(2,2)
<b>Guest Services Management II:</b> PR: HFT 3540 or C.I. Using decision theory and analytical techniques to create and maintain quality guest services. The emphasis is on strategic implications of quality service management. <i>Occasional.</i>			<b>International Events:</b> PR: HFT 1000 and HFT 2750; or C.I. Considerations when planning events that are held outside of the United States or that attract a large number of participants from outside the United States. <i>Occasional.</i>			<b>Coding Procedures II:</b> PR: HIM 4226C or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; ICD-9-CM; HCPCS; APGs; encoders. <i>Fall.</i>		
HFT 4753	RCHM-TEA	3(3,0)	HFT 4844	RCHM-HOS	3(3,0)	HIM 4344C	HPA-HP	4(3,2)
<b>Convention and Conference Services:</b> PR: HFT 3511 and junior standing or C.I. Provides an in-depth understanding of the acquisition and management of services (food and beverage, audio visual, transportation, etc.) integral to effective convention and conference operations. <i>Spring.</i>			<b>Sanitation in the Food Service Industry:</b> PR: HFT 1000 and junior standing or C.I. Causes and prevention of food spoilage and food borne illnesses. Includes National Restaurant Association (NRA) certification. <i>Occasional.</i>			<b>Health Information Department Management:</b> PR: HIM 3116C; MAN 3025. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning. <i>Fall.</i>		
HFT 4754	RCHM-TEA	3(3,0)	HFT 4861C	RCHM-HOS	3(3,1)	HIM 4506	HPA-HP	3(2,2)
<b>Exhibit and Trade Show Operations:</b> PR: HFT 2750 and junior standing or C.I. Provides an in-depth study of exhibit and trade show operations. Focuses on both supply and demand pertaining to exhibits and trade shows. <i>Fall, Spring.</i>			<b>Beverage Management:</b> PR: Minimum age of 21 by the first day of class and junior standing. The origin production, storing, marketing, and control of beverages in the hospitality industry. <i>Spring.</i> M&S fee: \$45.00			<b>Quality Management:</b> PR: HIM 3116C, HIM 4226C. CR:HIM 4256C. Principles and mechanics of quality improvement; utilization review; case management and risk management. <i>Fall, Spring.</i>		
HFT 4755	RCHM-TEA	3(3,0)	HFT 4864	RCHM-HOS	3(3,0)	HIM 4656C	HPA-HP	3(2,2)
<b>Theme Park and Attraction Management:</b> PR: HFT 1000 and junior standing or C.I. An in-depth study of the theme park and attraction industry, focusing on resources, ride operations, merchandising, food services, and architectural design. <i>Fall, Spring.</i>			<b>Seminar in Quality Brewing and Fine Beer:</b> PR: HFT 1000, HFT 3261. Minimum age of 21. The production and service of malt beverages. <i>Spring.</i> M&S fee: \$45.00			<b>Health Information Management Systems:</b> 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. <i>Fall, Spring.</i>		
			HFT 4865	RCHM-HOS	3(3,0)			
			<b>Advanced Wine Management:</b> PR: HFT 4866C or C.I. Advanced study of viticulture, enology and wine regions of the world. <i>Occasional.</i>					
			HFT 4866C	RCHM-HOS	3(3,1)			
			<b>Exploring Wines of the World:</b> PR: HFT 1000; HFT 3261; and Age of 21; or C.I. Using senses to evaluate wines, methodology of tasting and evaluating wines, growing, processing, and production of grape varieties used in making wine. <i>Odd Fall, Even Spring.</i> M&S fee: \$45.00					

## UCF Courses and Descriptions

HIM 4676 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. <i>Spring.</i>	HPA-HP 3(3,0)	HLP 4722 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. <i>Fall, Spring.</i>	ED-TLP 3(2,1)	HSA 4502 Risk Management Systems: PR: HSA 3111 or C.I. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care. <i>Fall, Spring.</i>	HPA-HP 3(3,0)
HIM 4838 Management Affiliation: PR: All other required courses. Assignment to a selected health care facility serving in an administrative capacity under the direction of a Registered Record Administrator; lab exercises; comprehensive exam. <i>Fall, Spring.</i>	HPA-HP 5(0,15)	HSA 3111 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. <i>Fall, Spring.</i>	HPA-HP 3(3,0)	HSA 4701 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. <i>Occasional.</i>	HPA-COMD 6(6,0)
HIS 3462 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. <i>Occasional.</i>	CAH-HIST 3(3,0)	HSA 3111H U.S. Health Care Systems Honors: PR: Major or minor in College of Health or C.I. Permission of Honors. A survey of the economics, social, and political aspects of the health care system in the United States. With Honors content. <i>Occasional.</i>	HPA-HP 3(3,0)	HSA 4702 Health Sciences Research Methods: PR: HSA 3111; STA 2014C or STA 2023; or C.I. Introduction to research design in the Health Sciences, including design, literature review, testing, analysis, and conclusions. <i>Fall, Spring.</i>	HPA-HP 3(3,0)
HIS 3949 Cooperative Education in History: PR: Departmental permission required before registering. Cooperative education experience in history. May be repeated. Graded S/U. <i>Occasional.</i>	CAH-HIST 0(0,8)	HSA 3170 Health Care Finance: PR: HSA 3111 or C.I., ACG 2021 and ACG 2071. Budgeting and resource allocation related to health care agencies. <i>Fall, Spring.</i>	HPA-HP 3(3,0)	HSA 5177 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. <i>Occasional.</i>	HPA-HP 3(3,0)
HIS 4070 Oral History: PR: Either AMH 2010, AMH 2020 or C.I. Theories and practices of oral history. Field work required. <i>Occasional.</i>	CAH-HIST 3(3,0)	HSA 3222 Long Term Care and Administration: PR: HSA 3111 or C.I. The clients, services, and administration of long-term care in specific settings. Students complete a service learning component in long-term care organizations. <i>Even Fall, Spring.</i>	HPA-HP 3(3,0)	HSA 5198 Health Care Decision Sciences and Knowledge Management: PR: Graduate standing. Emphasis on development of a general systematic approach to solving problems under uncertainty. The role of informatics and application of information technology in improving managerial decision making process will be presented. <i>Occasional.</i>	HPA-HP 3(3,0)
HIS 4150 History and Historians: PR: C.I. A study of European and/or American historiography. May be repeated once for credit. <i>Fall, Spring.</i>	CAH-HIST 3(3,0)	HSA 3430 Health Care Economics: PR: HSA 3111; ECO 2023; or C.I. 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. <i>Fall, Spring.</i>	HPA-HP 3(3,0)	HSA 5257 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. <i>Occasional.</i>	HPA-HP 3(3,0)
HIS 4935 Senior Seminar: PR: Senior standing, history major, and C.I. Research in history through sustained reading, writing, and discussion on a focused topic. May be repeated for credit. <i>Fall, Spring.</i>	CAH-HIST 3(3,0)	HSA 4109 Principles of Managed Care: PR: HSA 3111 or C.I. Course will introduce the contractual, financial, and practice pattern components of managed care. <i>Even Fall, Spring.</i>	HPA-HP 3(3,0)	HSA 5258 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. <i>Occasional.</i>	HPA-HP 3(3,0)
HIS 4944 Internship in Public History: PR: C.I. The Public History Internship is a one-semester course in which undergraduate history majors explore and gain experience in public history professions. <i>Fall, Spring.</i>	CAH-HIST 3(3,0)	HSA 4151H 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. <i>Occasional.</i>	HPA-HP 3(3,0)	HSC 1931C Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Health & Public Affairs providing a foundation of leadership, scholarship, and service regarding disciplines in the college. <i>Occasional.</i>	HPA-HPA 2(1,1)
HIS 4970 Senior Thesis: Original research paper available to advanced history majors, topics to be selected in consultation with a directing professor. <i>Occasional.</i>	CAH-HIST 3(3,0)	HSA 4180 Organization and Management for Health Agencies: PR: HSA 3111 or C.I. Organization and management of health care agencies, including procedural applications. <i>Fall, Spring.</i>	HPA-HP 3(3,0)	HSC 2000 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. <i>Fall.</i>	HPA-HP 2(2,0)
HIS 5067 Introduction to Public History: PR: Graduate status or senior standing or C.I. Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies. <i>Occasional.</i>	CAH-HIST 3(3,0)	HSA 4191 Health Care Automation: PR: HSA 3111; CGS 2100C, or CGS 1060C; or C.I. Analysis and design of computerized systems for health data and health administration. <i>Fall, Spring.</i>	HPA-HP 3(3,0)	HSC 2100 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. <i>Occasional.</i>	HPA-HP 3(3,0)
HIS 5158 Classic and Contemporary Historical Thought: PR: Graduate status or senior standing or C.I. Course will explore work of important historians influenced by social theory to gain an understanding of their main concepts. <i>Occasional.</i>	CAH-HIST 3(3,0)	HSA 4201 Community Health: PR: HSA 3111 or C.I. Historical, sociocultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies. <i>Fall, Spring.</i>	HPA-HP 3(3,0)	HSC 2921 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 1036C, IDS 1040C, GEB 1091C or EDG 1005C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. May be repeated for credit. <i>Occasional.</i>	HPA-HPA 2(2,0)
HLP 2701 Peer Education Training: PR: Sophomore standing and C.I. Strategies for teaching life skills and health education information for secondary students and college age peers. <i>Fall, Spring.</i>	ED-TLP 3(3,0)	HSA 4220 Long Term Patient Management: PR: HSA 3111. Concepts and process of patient care planning and management in a long term care facility. <i>Occasional.</i>	HPA-HP 3(3,0)		



**HSC 3110C** HPA-HP 3(2,2)  
**Medical Self Assessment:** Development of clinical skills and understanding of one's health to encourage active participation of individuals in their own health care. *Fall, Spring.* M&S fee: \$15.00

**HSC 3157** HPA-HP 3(3,0)  
**Introduction to Pharmacology:** Review of terminology and regulations. Study of drug types and usage. *Fall, Spring.*

**HSC 3402C** HPA-HP 3(2,3)  
**CPR & First Aid:** To train individuals to accepted and recognized medical standards in emergency first aid and CPR to include medical, environmental and trauma related emergencies. *Occasional.*

**HSC 3531** HPA-HP 3(3,0)  
**Medical Terminology:** A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms. *Fall, Spring.*

**HSC 3559** HPA-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. *Fall.*

**HSC 3593** HPA-HP 3(3,0)  
**HIV Disease: A Human Concern:** Analysis of the spectrum of HIV disease and the issues surrounding this public health crisis. *Fall, Spring.*

**HSC 3640** HPA-HP 3(3,0)  
**Health Law:** PR: HSA 3111 or C.I. Principles of law as applied to the health field, with special reference to health practices. *Fall, Spring.*

**HSC 4008** HPA-HP 3(3,0)  
**Professional Development in Health Professions:** PR: RET 3026C or C.I. Career development planning, professional leadership approaches to problem solving, regulatory and professional requirements, and the impact of disease and technology on the health care industry. *Spring.*

**HSC 4148** HPA-HP 2(2,0)  
**Medical Pharmacology I:** Drugs in pulmonary diseases; effects on nervous system, and neuroeffectors, depressants & stimulants; influence on metabolism and endocrines. (MDRV) Bronchodilators, mycolytics, etc. *Fall.*

**HSC 4149** HPA-HP 2(2,0)  
**Medical Pharmacology II:** PR: HSC 4148 or C.I. Drugs used in cardiovascular disorders. Includes inotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists. *Spring.*

**HSC 4243** HPA-HP 3(3,0)  
**Analysis of Instruction in Health Professions:** Development of teaching aids, audiovisuals, learning packets. Course development, questioning strategies, evaluation of didactic and clinical performance. *Spring.*

**HSC 4500** HPA-HP 3(3,0)  
**Epidemiology:** PR: HSA 3111 or C.I., STA 2014C or STA 2023. A study of the distribution and determination of diseases and injuries in human population. *Fall, Spring.*

**HSC 4550** HPA-HP 3(3,0)  
**Pathophysiologic Mechanisms:** PR: ZOO 3733C and PCB 3703C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state. *Fall, Spring.*

**HSC 4564** HPA-HP 3(3,0)  
**Health Care Needs of the Elderly:** PR: HSA 3111 or C.I. Overview of the physical and emotional needs of the elderly, including the institutional health care available. *Fall, Spring.*

**HSC 4653** HPA-HP 3(3,0)  
**Health Care Ethics:** PR: HSA 3111 or C.I. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making. *Fall, Spring.*

**HSC 5317** ED-TLP 3(3,0)  
**Health Methods: Teaching Strategies and Interventions:** PR: Admission to Graduate Certificate in Health and Wellness or C.I. Application of the knowledge of teaching strategies, methodology, and curriculum to develop a comprehensive school health program. *Occasional.*

**HSC 5595** HPA-HP 3(3,0)  
**AIDS: A Human Concern:** Focus on epidemiology, transmission, prevention, legal and health care issues, economic impact, psychosocial aspects, sexuality, substance abuse, ethics, hotlines, referral services and the decision making process. *Occasional.*

**HUM 2020** CAH-PHIL 3(3,0)  
**Encountering the Humanities:** The range of ideas, research methods and approaches to scholarship, critical reflection, and creative work in the humanities. *Spring.*

**HUM 2210** CAH-PHIL 3(3,0)  
**Humanistic Tradition I:** An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. *Fall, Spring.*

**HUM 2210H** CAH-PHIL 3(3,0)  
**Honors Humanistic Tradition I:** PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. Honors content. *Fall.*

**HUM 2230** CAH-PHIL 3(3,0)  
**Humanistic Tradition II:** An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. *Fall, Spring.*

**HUM 2230H** CAH-PHIL 3(3,0)  
**Honors Humanistic Tradition II:** PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. Honors content. *Spring.*

**HUM 3252** CAH-PHIL 3(3,0)  
**Contemporary Humanities:** PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the 20th century. *Occasional.*

**HUM 3255** CAH-PHIL 3(3,0)  
**Modern Humanities:** PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period. *Occasional.*

**HUM 3320** CAH-PHIL 3(3,0)  
**Contemporary Multicultural Studies:** PR: HUM 2230, Junior standing, or C.I. Studies the confluence of diverse cultures making up North America in the Information Age, focusing on complete primary sources in philosophy, literature, visual arts and music. *Even Fall.*

**HUM 3394** CAH-PHIL 3(3,0)  
**Representations of Place and Space:** PR: HUM 2230 or C.I. Phenomenological, symbolic, constructivist, and determinist approaches to personal and social place and space. *Occasional.*

**HUM 3401** CAH-PHIL 3(3,0)  
**Asian Humanities:** PR: HUM 2230 or C.I. An interdisciplinary survey of the cultures of India, China, and Japan, concentrating on their traditional art, literature, religion, philosophy, and music. *Occasional.*

**HUM 3417** CAH-PHIL 3(3,0)  
**Hindu Thought and Culture:** PR: HUM 2230, REL 2300, or C.I. A survey of the development of Hindu thought and culture from vedic times to the modern age, with emphasis on religion, literature, philosophy, art and music. *Occasional.*

**HUM 3419** CAH-PHIL 3(3,0)  
**Islamic Thought and Culture:** PR: HUM 2230, or REL 2300, or C.I. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. *Occasional.*

**HUM 3419H** CAH-PHIL 3(3,0)  
**Honors Islamic Thought and Culture:** PR: HUM 2230, or REL 2300, and Consent of Honors. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. With Honors content. *Occasional.*

**HUM 3431** CAH-PHIL 3(3,0)  
**Ancient Humanities:** PR: HUM 2230 or C.I. Development of Ancient Greek thought and culture with emphasis on philosophy, religion, literature and art. *Occasional.*

**HUM 3435** CAH-PHIL 3(3,0)  
**Medieval Humanities:** PR: ENC 1102 or C.I. Development of Medieval thought and culture with emphasis on Philosophy, Religion, Literature and Art. *Occasional.*

**HUM 3460** CAH-PHIL 3(3,0)  
**Latin American Humanities:** PR: HUM 2210 or HUM 2230. Ideas in cultures of Latin America and Caribbean basin as expressed in arts, architecture, music, philosophy, religion, literature and film. *Occasional.*

**HUM 3552** CAH-PHIL 3(3,0)  
**Christian Thought:** PR: ENC 1102. Christian thought from 4th century to present, concentrating on human nature, social justice, the state, war, and attitudes toward women. *Occasional.*

**HUM 3553** CAH-PHIL 3(3,0)  
**Moses, Jesus and Muhammad:** PR: HUM 2230, REL 2300, or C.I. Deals with the main themes of Judaism, Christianity, and Islam as found in the teachings of Moses, Jesus, and Muhammad. *Occasional.*

**HUM 3800** CAH-PHIL 3(3,0)  
**Research Methods in Humanities:** PR: Junior standing, and Humanities or Philosophy major or C.I. Research skills for the humanities, including methodologies, writing techniques, essay structuring, formatting, and methods for citing references and constructing bibliographies. *Occasional.*

## UCF Courses and Descriptions

HUM 4301	CAH-PHIL	3(3,0)	HUN 3013	RCHM-HOS	3(3,0)	IDS 4315	COS-POLS	3(3,0)
<p><b>The Classical Ideal:</b> PR: HUM 2210 and HUM 2230 or C.I. The search for order and form in the arts of various times and cultures. Concerns reason, structure, objectivity, harmony. Open to all Juniors and Seniors. <i>Occasional.</i></p>			<p><b>Nutrition Concepts and Issues in the Food Service Industry:</b> 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. <i>Occasional.</i></p>			<p><b>Global Perspectives:</b> PR: Completion of general education requirements and junior standing or C.I. The historical and contemporary contexts of globalization. <i>Spring.</i></p>		
HUM 4303	CAH-PHIL	3(3,0)	HUN 5936	HPA-HP	3(3,0)	IDS 4703	CAH-DIG	3(0,0)
<p><b>The Spiritual Ideal:</b> PR: HUM 2210 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest; mystical impulses contrasted to ethos and pathos. <i>Odd Spring.</i></p>			<p><b>Nutrition and Exercise Physiology:</b> This course correlates human nutrition with exercise physiology. Nutritional concepts are related to human performance and fitness. <i>Occasional.</i></p>			<p><b>Digital Media Project II:</b> PR: DIG 4524L and a minimum grade of "B" (3.0) or better in DIG 3001. Continuation of IDS 4682. <i>Odd Fall, Even Spring.</i></p>		
HUM 4330	CAH-PHIL	3(3,0)	IDH 1040H	BHC-HON	2(2,1)	IDS 4728	CAH-DIG	3(3,0)
<p><b>Performance Theory:</b> PR: Junior standing and HUM 2230 and either PHI 2010, PHI 2011, PHI 2108, or C.I. Traditional and contemporary theories of performance with a focus on linguistic performatives, bodily and virtual performances, self-identity, and the politics of performance. <i>Occasional.</i></p>			<p><b>Honors Foundation of Leadership:</b> PR: Permission of Honors. An honors symposium that presents academic leaders and their research or artistic achievements. Students are organized in groups to discuss leadership principles and applications. Graded S/U. <i>Occasional.</i></p>			<p><b>Unix for Graphics Production:</b> PR: COP 3223 and DIG 3525 or C.I. Unix operating system for the management of complex graphical production processes in animation and film post-production. <i>Occasional.</i></p>		
HUM 4393	CAH-PHIL	1(1,0)	IDH 1921H	BHC-HON	1(2,0)	IDS 4786C	CAH-DIG	4(3,3)
<p><b>Portfolio:</b> PR: Last semester as Humanities major. Presentation of a representative sampling of student's best undergraduate work, with appropriate revisions, including a cover narrative indicating development of humanistic knowledge and skills. Graded S/U. <i>Fall, Spring.</i></p>			<p><b>Honors Symposium:</b> Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts. <i>Fall.</i></p>			<p><b>Production Software Workshop:</b> PR: COT 3960 and DIG 4204, or C.I. Generating and manipulating digital imagery. Techniques, mechanics, underlying representations and data: introductions to scripting, plug-ins, procedural models. <i>Occasional.</i></p>		
HUM 4554	CAH-PHIL	3(3,0)	IDH 4030H	BHC-HON	1(3,0)	IDS 4935	COS-SOC	3(3,0)
<p><b>Religious Quest and Human Dilemma:</b> PR: ENC 1102 or C.I. Nature of the sacred, death, and future life and how they relate to human existence. <i>Even Fall.</i></p>			<p><b>Honors Windows To The World:</b> PR: Permission of Honors and IDH 1921H, enrolled in Accelerated Pre-med Program; or C.I. Students will cultivate an active sense of the liberal arts and sciences as they prepare for prestigious scholarships and graduate school. Graded S/U. May be repeated for credit. <i>Occasional.</i></p>			<p><b>Multidisciplinary Research Methods:</b> PR: McNair Scholar and Junior Standing. Research methods of various disciplines designed for McNair Program Scholars. <i>Occasional.</i></p>		
HUM 4556	CAH-PHIL	3(3,0)	IDS 1040C	COS-COMM	2(1,1)	IDS 5145	ECS-IEMS	3(3,2)
<p><b>Religion and the Arts:</b> PR: One of: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary. <i>Occasional.</i></p>			<p><b>Foundations of Leadership:</b> 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. <i>Fall, Spring.</i></p>			<p><b>Interdisciplinary course in simulation:</b> PR: Calculus, matrix algebra, probability &amp; statistics, high level programming language. An interdisciplinary course on simulation with hands-on experience in discrete event modeling, continuous modeling &amp; shared virtual world. May be repeated for credit. <i>Occasional.</i></p>		
HUM 4823	CAH-PHIL	3(3,0)	IDS 2041C	COS-COS	2(1,1)	IDS 5717C	CAH-IDS	3(2,2)
<p><b>Queer Theory in the Humanities:</b> PR: HUM 2210 and HUM 2230 and Junior standing or C.I. Developments in queer theory. Challenge to research by scholars, activists, performers, and visual artists. <i>Occasional.</i></p>			<p><b>LEAD Colloquium:</b> PR: Must have completed 2 of the following with a grade of B or better: IDS 1040C, GEB 1091C, HSC 1931C, EGN 1036C, EDG 1005, or EDF 1930C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. <i>Occasional.</i></p>			<p><b>Introduction to Modeling and Simulation:</b> PR: STA 2023 or equivalent. Introduction to the theory and practice of modeling and simulation with emphasis on multidisciplinary scientific underpinnings. <i>Fall, Spring.</i></p>		
HUM 4933	CAH-PHIL	3(3,0)	IDS 3150	UGST-LIBERAL ST	3(3,0)	IDS 5719	CAH-IDS	3(3,0)
<p><b>Senior Research Seminar:</b> PR: Senior standing and Humanities major. Capstone course on research, developing effective oral and written communication skills. <i>Occasional.</i></p>			<p><b>Foundations of Environmental Studies:</b> 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. <i>Spring.</i></p>			<p><b>Quantitative Aspects of Modeling and Simulation:</b> PR: MAC 2241 or equivalent. Introduction to matrix algebra and other discrete mathematics topics for modeling and simulation applications. <i>Spring.</i></p>		
HUM 5802	CAH-PHIL	3(3,0)	IDS 3334	CAH-HIST	3(3,0)	IDS 5915	CAH-PHIL	3(3,0)
<p><b>Applied Contemporary Humanities:</b> 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. <i>Occasional.</i></p>			<p><b>Topics in Latino Studies:</b> PR: ENC 1102. Multi-disciplinary course exploring various topics pertaining to Latinos in the U.S. <i>Occasional.</i></p>			<p><b>Research Methods in Cognitive Sciences:</b> PR: Admission to graduate certificate program in Cognitive Sciences or C.I. Interdisciplinary research methods in the cognitive sciences. <i>Spring.</i></p>		
HUM 5803	CAH-PHIL	3(3,0)	IDS 3701C	CAH-DIG	3(2,2)	IDS 5936	CAH-PHIL	3(3,0)
<p><b>Theories and Methods of the Humanities:</b> PR: Senior undergraduate standing and at least one of the following: HUM 3252, 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. <i>Fall.</i></p>			<p><b>Internet Software Design:</b> PR: DIG 2000, COP 2500C, COP 3330 and a minimum grade of "B" (3.0) or better in DIG 3001. Software design for media-rich Internet applications in arts and humanities. User interface, client/server, n-tier architectures, scalability, optimization, streaming, interactive media objects for storytelling and e-commerce. <i>Odd Fall, Even Spring.</i></p>			<p><b>Topics in Cognitive Sciences:</b> PR: Admission to graduate certificate in Cognitive Sciences or C.I. Theoretical issues and empirical studies in the cognitive sciences, including contemporary discussions of mind, brain, artificial intelligence, pathologies, and behavioral capacities. <i>Fall.</i></p>		
HUN 2002	HPA-HP	3(3,0)	IDS 4156	UGST-LIBERAL ST	3(3,0)	INP 3004	COS-PSYCH	3(3,0)
<p><b>Modern Concepts in Nutrition:</b> 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. <i>Fall, Spring.</i></p>			<p><b>Solving Environmental Problems:</b> PR: IDS 3150, ECP 4302, GIS 3043C, GIS 4301C and PUP 3203, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed. <i>Occasional.</i></p>			<p><b>Industrial/Organizational Psychology:</b> PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations. <i>Fall.</i></p>		
HUN 3011	HPA-NURS	3(3,0)				INP 3141C	COS-PSYCH	1-3(0,3-9)
<p><b>Human Nutrition:</b> 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. <i>Fall, Spring.</i></p>						<p><b>Advanced Applied Psychology:</b> 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. <i>Fall, Spring.</i></p>		

## UCF Courses and Descriptions

<p>INP 3951 COS-PSYCH 3(0,10)  <b>Industrial/Organizational Field Work:</b> PR: C.I. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations. <i>Occasional.</i></p>	<p>INR 4060 COS-POLS 3(3,0)  <b>Causes of War:</b> PR: POS 2041 or INR 2002 or C.I. The primary theoretical and empirical research explaining militarized interstate conflict. <i>Fall.</i></p>	<p>INR 4243 COS-POLS 3(3,0)  <b>International Politics of Latin America:</b> Study of contemporary U.S.-Latin American relations, interAmerican politics and organization, and the role of Latin America in the world. <i>Occasional.</i></p>
<p>INP 4252 COS-PSYCH 3(3,0)  <b>Advanced Industrial Psychology:</b> PR: INP 3004 and PSY 3213C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment. <i>Occasional.</i></p>	<p>INR 4064 COS-POLS 3(3,0)  <b>Changing Nature of War:</b> PR: POS 2041 or C.I. The changing nature of war in light of significant changes in technology and international politics. <i>Occasional.</i></p>	<p>INR 4304 COS-POLS 3(3,0)  <b>Issues in International Public Policy:</b> PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-making, which influence select international public policy issues. <i>Occasional.</i></p>
<p>INP 4313 COS-PSYCH 3(3,0)  <b>Organizational Psychology:</b> 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. <i>Occasional.</i></p>	<p>INR 4074 COS-POLS 3(3,0)  <b>Immigration Policy:</b> 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. <i>Occasional.</i></p>	<p>INR 4335 COS-POLS 3(3,0)  <b>Coercion in International Politics:</b> Examination of the role of coercive techniques among states in a nuclear age, ranging from nuclear strategy and deterrence to wars of national liberation and coups. <i>Even Fall.</i></p>
<p>INP 5825 COS-PSYCH 3(3,0)  <b>Human-computer Interface (HCI) design: A team approach:</b> 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. <i>Occasional.</i></p>	<p>INR 4075 COS-POLS 3(3,0)  <b>Human Rights Policy:</b> PR: POS 2041, Junior standing or C.I. Meaning of human rights, political and international implications of human rights policies, relationship to global peace, racism, gender inequality, economic development and democratization. <i>Spring.</i></p>	<p>INR 4350 COS-POLS 3(3,0)  <b>Global Environmental Politics:</b> PR: INR 2002 or POS 2041 or C.I. The unique environmental struggles and political issues that occur on the international and global levels. <i>Fall.</i></p>
<p>INR 2002 COS-POLS 3(3,0)  <b>International Relations-Theory and Practice:</b> Analysis of the fundamental principles and factors affecting interstate relations and their application to contemporary global developments. <i>Fall, Spring.</i></p>	<p>INR 4076 COS-POLS 3(3,0)  <b>Global Drug Policy:</b> PR: POS 2041, Junior standing or C.I. International drug control issues, policy formulation and enforcement, impact of government and political economic systems on drug policy. Selected Latin American and Third World cases. <i>Odd Spring.</i></p>	<p>INR 4351 COS-POLS 3(3,0)  <b>International Environmental Law:</b> PR: Junior standing or C.I. Examination of global efforts to establish a treaty regime for environmental protection of earth's biosphere when challenged by national sovereignty and economic and cultural diversity. <i>Odd Spring.</i></p>
<p>INR 3016 COS-POLS 3(3,0)  <b>Global Political Issues:</b> PR: POS 2041 or C.I. Current global political topics from political development and income gap to gender issues and environmental challenges. <i>Occasional.</i></p>	<p>INR 4085 COS-POLS 3(3,0)  <b>Women, Gender, and Globalization:</b> PR: Junior standing. Feminist and gender perspectives in International Relations, Globalization, and International Political Economy. <i>Occasional.</i></p>	<p>INR 4364 COS-POLS 3(3,0)  <b>The Intelligence Community:</b> PR: POS 2041 or INR 2002 or CPO 3103 or C.I. The intelligence community structure in its relationship to foreign policy decision making, consideration of control and reliability questions, and issues of cooperation and coordination. <i>Spring.</i></p>
<p>INR 3250 COS-POLS 3(3,0)  <b>Politics of Pan-Africanism:</b> PR: INR 2002. Political expressions of Pan-Africanism throughout the major regions of the African Diaspora. <i>Occasional.</i></p>	<p>INR 4102 COS-POLS 3(3,0)  <b>American Foreign Policy:</b> Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world. <i>Odd Fall.</i></p>	<p>INR 4401 COS-POLS 3(3,0)  <b>International Law I:</b> PR: Junior standing or C.I. The nature, evolution, and sources of international law and such subareas as recognition of states and governments, expropriation, nationality, and aliens. <i>Occasional.</i></p>
<p>INR 3253 COS-POLS 3(3,0)  <b>International Politics of Africa:</b> 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. <i>Occasional.</i></p>	<p>INR 4104 COS-POLS 3(3,0)  <b>Topics and Cases in American Foreign Policy:</b> PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems or aspects of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, policymaking and decision-making and intelligence. <i>Odd Spring.</i></p>	<p>INR 4402 COS-POLS 3(3,0)  <b>International Law II:</b> PR: INR 4401 or C.I. Examination of various sub-areas of international law, including maritime law, laws of the sea and seabed, air law, outer space, neutrality, and laws of war. <i>Occasional.</i></p>
<p>INR 4011 COS-POLS 3(3,0)  <b>Politics of Globalization:</b> PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization. <i>Occasional.</i></p>	<p>INR 4114 COS-POLS 3(3,0)  <b>American Security Policy:</b> PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control. <i>Occasional.</i></p>	<p>INR 4404 COS-POLS 3(3,0)  <b>Space Law:</b> Examination of the legal regime of outer space from both international and national perspectives, and the legal problems arising from human activity in space. <i>Occasional.</i></p>
<p>INR 4030 COS-POLS 3(3,0)  <b>Diplomacy:</b> PR: POS 2041, Junior standing or C.I. Concepts, theories, and methods of contemporary diplomacy; diplomatic processes in the international arena. <i>Spring.</i></p>	<p>INR 4115 COS-POLS 3(3,0)  <b>Strategic Weapons and Arms Control:</b> Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation. <i>Occasional.</i></p>	<p>INR 4502 COS-POLS 3(3,0)  <b>International Organizations:</b> The study of the structure and workings of international organizations of cooperation, including the UN, its affiliates, and various regional organizations. <i>Even Fall, Odd Spring.</i></p>
<p>INR 4035 COS-POLS 3(3,0)  <b>International Political Economy:</b> The international politics of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations. <i>Odd Spring.</i></p>	<p>INR 4224 COS-POLS 3(3,0)  <b>Contemporary International Politics of Asia:</b> Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan. <i>Occasional.</i></p>	<p>INR 4603 COS-POLS 3(3,0)  <b>International Relations Theory:</b> PR: INR 2002. Theoretical trends prevalent in the study of international relations, including realism, liberalism, Marxism, feminism, and post-modernism. <i>Occasional.</i></p>
<p>INR 4054 COS-POLS 3(3,0)  <b>Global Politics of Energy:</b> PR: POS 2041 or INR 2002 or C.I. International/national dimensions of global energy policy within developed and underdeveloped countries. <i>Occasional.</i></p>	<p>INR 4225 COS-POLS 3(3,0)  <b>The Vietnam War:</b> Background of events leading to America's involvement in Indochina, the course of the Vietnam War, and the lessons which that war imparts. <i>Odd Spring.</i></p>	<p>INR 4714 COS-POLS 3(3,0)  <b>Politics of International Trade Policy:</b> PR: INR 2002. Key actors and processes of international trade policy-making at the sub-national, nation-state, regional, and global levels of analysis. <i>Occasional.</i></p>

## UCF Courses and Descriptions

ISM 3011 Essentials of Management Information Systems: PR: Junior standing and business major or minor, CGS 2100C or CGS 1060C. Management and use of information technology in organizations. <i>Fall, Spring.</i>	BA-MIS 3(3,0)	ISM 4113 Information Systems Analysis and Design: PR: MIS major or minor, ISM 4212C, ISM 3253. Structured approaches to the development of computer-based information systems in business. <i>Fall, Spring.</i>	BA-MIS 3(3,0)	ISM 4400 Decision Support: PR: MIS major or minor, ISM 3011. Computer-based quantitative models and decision support systems in organizations. <i>Fall, Spring.</i>	BA-MIS 3(3,0)
ISM 3011H Honors Management Information Systems: PR: Junior standing and business major or minor, permission of Honors, CGS 2100C or CGS 1060C. Management and use of information technology in organizations. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4114 Advanced Business Application Development: PR: MIS major or minor, ISM 3253, ISM 4212C, CR: ISM 4220, ISM 4113. Theory and practice in developing client server applications for business and use of modern development tools. Includes principles of multiuser, multitier application design and implementation. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4431 Business Process Analysis: PR: ISM 4153. Analysis of enterprise resource planning technology surrounding supply chain management. <i>Occasional.</i>	BA-MIS 3(3,0)
ISM 3013 Introduction to Information Systems Management: PR: CGS 2100C or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The Course introduces fundamental concepts and methods related to the management of information systems in organizations. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4130 Information Systems Implementation: PR: MIS major or minor, ISM 4113. Management of information systems development in business. <i>Fall, Spring.</i>	BA-MIS 3(3,0)	ISM 4480 Electronic Commerce Systems: PR: MIS major or minor, ISM 3253, ISM 4212C, MAR 3023. Theory and practice in developing electronic commerce systems. Emphasizes economic issues and modern e-commerce development tools. Significant laboratory work required. <i>Occasional.</i>	BA-MIS 3(3,0)
ISM 3043 Society and Technology: PR: CGS 2100C or CGS 1060C, and Mac 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4133 Information Systems Analysis, Design, and Implementation: PR: MIS major or minor, ISM 3253, ISM 4212C. Same as ISM 4113 and ISM 4130. Comprehensive coverage of analysis, design, and implementation of information systems. <i>Occasional.</i>	BA-MIS 6(6,0)	ISM 4941 Internship in MIS: PR: ISM 3253, ISM 4212C, and ISM 3011, consent of department chair. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information. <i>Fall, Spring.</i>	BA-MIS 3(0,3)
ISM 3214 Personal Database Productivity: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The use of databases and data products. Emphasizes modern tools for accessing organizational data, data mining and reporting. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4153 Enterprise Information Systems: PR: ISM 3011. Implementing and managing enterprise information systems in organizations. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 5020 MIS Foundations: PR: Acceptance to Graduate Study. Information systems are an integral part of modern organizations. This course provides an introduction to information systems from an organizational and managerial perspective. <i>Occasional.</i>	BA-MIS 1.5(1.5,0)
ISM 3253 MIS Techniques: PR: MIS major or minor, CGS 2100C. Computer use required of users and developers of management information systems. <i>Fall, Spring.</i>	BA-MIS 4(3,3)	ISM 4154 Enterprise Application Development: PR: ISM 4431. Design and development of enterprise applications with special emphasis on web based development platforms. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 5021 Introduction to Management Information Systems: PR: Acceptance into the graduate program. Designed to provide the student with the fundamentals of business data processing and management information systems used by organizations in a modern society. <i>Occasional.</i>	BA-MIS 3(3,0)
ISM 3424 Computer-Aided Decision Making: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Prepares the student to use computer-based tools to assist in making organizational decisions. Also includes a component on problem solving techniques. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4212C Database Design and Implementation: PR: ISM 3253 and ISM 3011. Design and implementation of relational database in organizations. <i>Fall, Spring.</i>	BA-MIS 4(3,2)	ISM 5123 Concepts of Systems Analysis and Design: PR: Completion of ISM 5021 and Graduate Standing. Using a traditional life-cycle approach, the course introduces practical tools and techniques for organizational analysis and the subsequent design of an information system. <i>Occasional.</i>	BA-MIS 3(3,0)
ISM 3501 Essentials of Electronic Commerce: PR: CGS 2100C or CGS 1060C, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Basic electronic commerce and technologies. Students are required to develop an e-commerce related business plan and build a prototype Website using a tool. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4220 Distributed Information Systems: PR: MIS major or minor, ISM 3253 and ISM 3011. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Distributed database design and implementation. <i>Fall, Spring.</i>	BA-MIS 3(3,0)	ISM 5127 Concepts of Database Design and Administration: PR: ISM 5020 and admission to graduate study or MIS major or minor in term of graduation. Introduces concepts and methods related to the effective utilization of data by organizations. A database life-cycle approach is used to organize course content. <i>Occasional.</i>	BA-MIS 3(3,0)
ISM 3521 Business Applications: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Advanced topics concerning the use of application software in organizations. Focus on integration of applications. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4228 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. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 5219 Business Intelligence Systems: PR: All BS and MIS technical courses required for admission to the MSMSIS program. Modern paradigms in data analysis. The detection of useful patterns and relationships in databases. <i>Occasional.</i>	BA-MIS 3(3,0)
ISM 3530 Quality & Productivity Management: PR: MIS major or minor, GEB 3031 and MAN 3025. An examination of the principles and theories of quality and operations management in manufacturing and service organizations. <i>Fall, Spring.</i>	BA-MIS 3(3,0)	ISM 4238 Business Programming/OOP: PR: MIS major or minor, ISM 3253, ISM 4212C, or C.I. This course will provide an introduction to object-oriented programming (OOP) and object-oriented design (OOD). <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 5256 Concepts of Business Programming: PR: Admission to Graduate Study. Principles of programming including program design, fundamental programming constructs, and database access. <i>Occasional.</i>	BA-MIS 3(3,0)
ISM 4090 Seminar in Management Information Systems: PR: MIS major or minor, ISM 3011. New developments in management information systems in a business environment. <i>Occasional.</i>	BA-MIS 3(3,0)	ISM 4300 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. <i>Fall, Spring.</i>	BA-MIS 3(3,0)	ISM 5315 Information Systems Project Management: PR: Graduate standing or C.I. This course introduces students to the concept of project management including project scope, cost, time and quality. <i>Occasional.</i>	BA-MIS 3(3,0)
		ISM 4323 Information Systems Security: PR: ISM 4220. Primary issues related to security in an organization's IT infrastructure. <i>Occasional.</i>	BA-MIS 3(3,0)		

ISM 5507 <b>Electronic Agorae:</b> PR: Admission to graduate study or MIS major or minor in term of graduation. Broad exploration of internet tools as vehicles for communication, interaction, decision-making, and community formation. May include issues in ethics, privacy, security, design, implementation, and applications. <i>Occasional.</i>	BA-MIS	3(3,0)	ITT 3480 <b>Study Abroad: Italian Literature in Translation:</b> PR: C.I. Main literary tendencies and authors of Italian literature, taught in the native environment. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 4181 <b>Public Affairs Reporting:</b> PR: Journalism major, and a minimum grade of "C" (2.0) in both JOU 2100C and JOU 3___C Metro Reporting. Reporting on city, county and state government. <i>Fall, Spring.</i>	COS-COMM	3(3,0)
ISS 4155 <b>Science Fiction and the Social Sciences:</b> A multimedia examination of note-worthy science fiction from the Social Science perspective. <i>Occasional.</i>	COS-COMM	3(3,0)	ITT 4956 <b>Study Abroad: Modern and Contemporary Italian Culture:</b> PR: Junior standing and C.I. Modern and contemporary Italian culture in the natural environment. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 4211C <b>Informational Graphics:</b> PR: JOURNALISM major and a minimum grade of "C" (2.0) in JOU 2100C. Use of boxes, charts and graphics in the print media. <i>Occasional.</i>	COS-COMM	3(2,1)
ITA 1005 <b>Italian Diction:</b> This course is especially designed for music and voice students, with an emphasis on musical terms, Italian songs, and opera libretti. <i>Even Spring.</i>	CAH-MUSIC	1(1,0)	ITT 4957H <b>Honors Italian Literature in Translation:</b> PR: ENC 1102 and consent of Honors. Main literary tendencies and authors of Italian Literature, with honors content. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 4223C <b>Page Design:</b> PR: Journalism major and JOU 3201 and JOU 3202 or VIC 3001. Designing newspaper pages, including stories, headlines, and other content. <i>Occasional.</i>	COS-COMM	3(2,1)
ITA 1120 <b>Elementary Italian Language and Civilization I:</b> Introduces the student to Italian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. <i>Fall, Spring.</i>	CAH-LANG	4(4,1)	ITW 3100 <b>Survey of Italian Literature I:</b> PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 4224 <b>Magazine Editing and Production:</b> PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, including writing and editing skills, and editorial, business, and production requirements. <i>Occasional.</i>	COS-COMM	3(3,0)
ITA 1121 <b>Elementary Italian Language and Civilization II:</b> PR: ITA 1120 or equivalent. Continuation of ITA 1120. <i>Fall, Spring.</i>	CAH-LANG	4(4,1)	ITW 3101 <b>Survey of Italian Literature II:</b> PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 4300 <b>Feature Writing:</b> 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. <i>Fall, Even Spring.</i>	COS-COMM	3(3,0)
ITA 2200 <b>Intermediate Italian Language and Civilization I:</b> PR: ITA 1121 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar, study of syntax, idiomatic expression, extensive readings, and further study of Italian culture. <i>Fall.</i>	CAH-LANG	3(3,0)	ITW 3600 <b>Dante's Inferno:</b> PR: ITW 3100. An in-depth study of Dante's Inferno. In English. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 4306C <b>Critical Writing:</b> PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works. <i>Occasional.</i>	COS-COMM	3(1,2)
ITA 2201 <b>Intermediate Italian Language and Civilization II:</b> PR: ITA 2200 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Italian civilization. <i>Spring.</i>	CAH-LANG	3(3,0)	JOU 2100C <b>News Reporting:</b> PR: Com pending, or Journalism Major, or Magazine Journalism Minor and meet grammar proficiency requirement. Newsgathering and writing for the mass media. <i>Fall, Spring.</i>	COS-COMM	3(3,1)	JOU 4308 <b>Freelance Writing:</b> PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts. <i>Occasional.</i>	COS-COMM	3(3,0)
ITA 2210 <b>Intensive Italian Conversation:</b> PR: One year of Italian or equivalent. Practical use of the language leading toward fluency and correctness in speaking. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 3004 <b>History of American Journalism:</b> Development of mass media, leading innovators, and the medias role in the nation's history. <i>Fall, Spring.</i>	COS-COMM	3(3,0)	JOU 4340C <b>On-line Journalism I:</b> PR: A minimum grade of "C" (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Write and design news for the Web. <i>Occasional.</i>	COS-COMM	3(1,3)
ITA 2240 <b>Italian Conversation:</b> PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 3101 <b>Advanced Reporting:</b> 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. <i>Fall, Spring.</i> M&S fee: \$15.00	COS-COMM	3(3,0)	JOU 4341C <b>On-line Journalism II:</b> PR: JOURNALISM major, and development of on-line journalism materials. <i>Occasional.</i> M&S fee: \$15.00	COS-COMM	3(1,3)
ITA 3420 <b>Italian Composition:</b> PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture. <i>Spring.</i>	CAH-LANG	3(3,0)	JOU 3201 <b>Editing I:</b> PR: Journalism major or Magazine Journalism minor and meet grammar proficiency requirement. Editing copy, writing headlines, managing newsroom operations. <i>Fall, Spring.</i>	COS-COMM	3(3,0)	JOU 4342C <b>Converged Journalism:</b> PR: JOURNALISM major and MMC 4200. Combining print and electronic technologies to transmit information to the public. Capstone course. <i>Occasional.</i>	COS-COMM	3(2,1)
ITA 3440 <b>Italian for Business:</b> PR: ITA 2200. Italian language for business purposes. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 3202 <b>Editing II:</b> PR: Journalism major or Magazine Writing minor, a minimum grade of "C" (2.0) in JOU 3201, and a minimum grade of "C" (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout. <i>Fall, Spring.</i> M&S fee: \$15.00	COS-COMM	3(3,0)	JOU 4700 <b>Journalism Ethics:</b> PR: MMC 4200. Ethical problems, codes, and practices in newsrooms. <i>Occasional.</i>	COS-COMM	3(3,0)
ITA 3472 <b>Renaissance Art Abroad:</b> PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo. <i>Occasional.</i>	CAH-LANG	3(3,0)	JOU 3313C <b>Sports Reporting:</b> PR: Journalism major and a minimum grade of "C" (2.0) in JOU 2100C. Covering sports for the print media; issues, principles, and practices. <i>Occasional.</i>	COS-COMM	3(2,1)	JPN 1120 <b>Elementary Japanese Language and Civilization I:</b> Introduces the student to Japanese culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language. <i>Fall.</i>	CAH-LANG	4(4,1)
ITA 3760 <b>Advanced Italian Oral Communication:</b> 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. <i>Fall.</i>	CAH-LANG	3(3,0)	JOU 3510 <b>Magazine Publishing:</b> 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. <i>Spring.</i>	COS-COMM	3(3,0)	JPN 1121 <b>Elementary Japanese Language and Civilization II:</b> PR: JPN 1120 or equivalent. Continuation of JPN 1120. <i>Spring.</i>	CAH-LANG	4(4,1)
ITA 4820 <b>Italian Syntax Abroad:</b> PR: ITA 3420. A study of Italian Syntax for advanced students of Italian. <i>Occasional.</i>	CAH-LANG	3(3,0)						

## UCF Courses and Descriptions

<p>JPN 2200 CAH-LANG 3(3,1)  <b>Intermediate Japanese Language and Civilization I:</b> PR: JPN 1121 or equivalent. This course aims to aid in acquiring and refining the acquisition of the four skills in modern Japanese: speaking, listening, reading, and writing. The emphasis is on accurate communication in Japanese. The culture of Japan will also be studied. <i>Fall.</i></p>	<p>JST 3312H CAH-JUD 3 (3,0)  <b>Honors Jewish Identity and Genre:</b> PR: ENC 1102 and consent of Honors. Literary genres in Jewish and Hebrew literature of the 18th and 19th centuries as related to the intellectual quest for Jewish identity and modernism. With Honors content. <i>Occasional.</i></p>	<p>LAE 4342 ED-TLP 3(3,0)  <b>Teaching Language and Composition:</b> PR: EDG 4323; CR: LAE 4360 and ESE 3940. Techniques and methods in teaching grammar, usage, dialect, and composition; includes meeting the needs of the new English language learner. <i>Fall, Spring.</i></p>
<p>JPN 2201 CAH-LANG 3(3,1)  <b>Intermediate Japanese Language and Civilization II:</b> PR: JPN 2200 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization. <i>Spring.</i></p>	<p>JST 3401 CAH-JUD 3(3,0)  <b>The Jewish People I:</b> 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. <i>Fall.</i></p>	<p>LAE 4360 ED-TLP 4(3,2)  <b>English Instructional Analysis:</b> PR: EDG 4323. Course objectives for a school curriculum and methods and materials which have special application for teaching English at the middle grades and high school. <i>Fall, Spring.</i></p>
<p>JPN 2952 CAH-LANG 3(3,0)  <b>Japanese Cultural Studies Abroad:</b> PR: JPN 1120 and JPN 1121. Japanese culture through key elements of Japanese life and comprehensive exposure of various aspects of their material cultural heritage. Conducted in Japanese. <i>Occasional.</i></p>	<p>JST 3402 CAH-JUD 3(3,0)  <b>The Jewish People II:</b> The life and history of the Jews in the medieval and modern worlds. <i>Spring.</i></p>	<p>LAE 4361 ED-TLP 3(3,0)  <b>Literacy Strategies for Middle and High School:</b> 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 content reading. <i>Fall, Odd Spring.</i></p>
<p>JPN 3760 CAH-LANG 3(3,0)  <b>Advanced Japanese Conversation:</b> PR: JPN 1121 or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse. <i>Occasional.</i></p>	<p>JST 3450 CAH-JUD 3(3,0)  <b>Modern Jewish Experience:</b> 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. <i>Occasional.</i></p>	<p>LAE 4464 ED-TLP 3(3,0)  <b>Survey of Adolescent Literature:</b> This course is designed to explore adolescent literature from both an educational and an historical perspective. <i>Fall.</i></p>
<p>JST 3005 CAH-JUD 3(3,0)  <b>Tenets of Judaism:</b> PR: ENC 1101 and ENC 1102. Values, practices, and beliefs that define Judaism. <i>Occasional.</i></p>	<p>JST 3481 CAH-JUD 3(3,0)  <b>20th Century Jewish History and Thought:</b> PR: ENC 1102 or C.I. Study of philosophers such as Buber, Rosenzweig, Kaplan, Heschel, Borowitz, Solovechik, within the historical context of European immigration to the U.S. <i>Occasional.</i></p>	<p>LAE 5195 ED-TLP 3(3,0)  <b>CFWP Teacher Consultant:</b> 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. <i>Occasional.</i></p>
<p>JST 3100 CAH-JUD 3(3,0)  <b>The Hebrew Creative Mind:</b> Survey of Hebrew Literature in Translation. A survey of the creative expressions of Hebrew civilization as found in the Hebrew Bible, Apocrypha and Pseudepigrapha, the Mishnah, Talmud, and the Talmud, Medieval Hebrew Poetry and Prose. <i>Occasional.</i></p>	<p>JST 3550 CAH-JUD 3(3,0)  <b>Introduction of Modernism into Judaism:</b> 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). <i>Occasional.</i></p>	<p>LAE 5295 ED-TLP 1-3(1-3,0)  <b>Writing Workshop I:</b> 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. <i>Fall, Spring.</i></p>
<p>JST 3120 CAH-JUD 3(3,0)  <b>Hebrew Scriptures:</b> PR: ENC 1102, Junior standing. The Hebrew Bible (Old Testament, in translation) in historical, social, religious, cultural and literary contexts. <i>Occasional.</i></p>	<p>JST 3701 CAH-JUD 3(3,0)  <b>History of the Holocaust:</b> A comprehensive study of the Holocaust from 1933-1945, discussing the persecution of German Jews and the annihilation of the Jews in Europe. <i>Occasional.</i></p>	<p>LAE 5319 ED-TLP 3(3,0)  <b>Methods of Elementary School Language Arts:</b> PR: EDG 4323. Principles, procedures, organization and current practices in reading, writing, listening, and talking. <i>Fall.</i></p>
<p>JST 3121 CAH-JUD 3(3,0)  <b>Classic Texts of Judaism:</b> PR: ENC 1102. Scriptures, post-Biblical Rabbinic writings, Exegesis, Apocrypha, Qumran documents, Mishnah, Talmud, the Siddur, as well as Jewish mystical writings. <i>Occasional.</i></p>	<p>JST 3751 CAH-JUD 3(3,0)  <b>Literature of the Holocaust:</b> A study of the traumatic experience of the Holocaust in Europe as expressed and depicted in contemporary Jewish and Hebrew Literature. <i>Occasional.</i></p>	<p>LAE 5337 ED-TLP 3(3,0)  <b>Literacy Strategies for Middle and Secondary Teaching:</b> PR: EDG 6236 or C.I. Designed to assist teachers and graduate students in understanding the adolescent learner. This course will examine theory, strategies, research, resources and implementation options for effective middle and secondary literacy programs. <i>Occasional.</i></p>
<p>JST 3125 CAH-JUD 3(3,0)  <b>The Book of Job:</b> PR: Jr standing, ENC 1102. A textual-thematic study of Book of Job in English translation, exploring the Book of Job as literature, theology and ethics. <i>Occasional.</i></p>	<p>JST 3810 CAH-JUD 3(3,0)  <b>The Jewish National Movement and Roots of Zionism:</b> Roots of Zionism and Jewish nationalism and their relationship to modern anti-semitism, through analysis of European Jewish history and society. <i>Occasional.</i></p>	<p>LAE 5338 ED-TLP 3(3,0)  <b>Teaching Writing in Middle and High School:</b> PR: EDG 6236 or C.I. Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing. <i>Fall, Spring.</i></p>
<p>JST 3126 CAH-JUD 3(3,0)  <b>Romantic Love in the Bible:</b> 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. <i>Occasional.</i></p>	<p>JST 3820 CAH-JUD 3(3,0)  <b>Modern Hebrew Culture:</b> 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. <i>Occasional.</i></p>	<p>LAE 5346 ED-TLP 3(3,0)  <b>Methods of Teaching English Language Arts:</b> 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. <i>Fall, Spring.</i></p>
<p>JST 3144 CAH-JUD 3(3,0)  <b>Dead Sea Scrolls:</b> PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance. <i>Occasional.</i></p>	<p>LAE 3414 ED-TLP 3(3,0)  <b>Literature for Children:</b> PR: Admission to Undergraduate Elementary Education Program or C.I. Criteria for analysis and evaluation of children's literature in terms of interests, needs, and abilities of children. <i>Fall, Spring.</i></p>	<p>LAE 5367 CAH-ENG 3(3,0)  <b>English Composition and Literature for Teachers of Advanced Placement:</b> PR: Graduate status or senior standing, and C.I. A two-week summer institute for secondary school teachers preparing to teach Advanced Placement courses. <i>Occasional.</i></p>
<p>JST 3312 CAH-JUD 3 (3,0)  <b>Identity and Genre:</b> PR: ENC 1102 or C.I. Jewish and Hebrew literature as related to the intellectual quest for Jewish identity and modernism in the 18th and 19th centuries. <i>Occasional.</i></p>	<p>LAE 4314 ED-TLP 3(3,0)  <b>Language Arts in the Elementary School:</b> PR: EDG 4323 or C.I. Content, principles, materials, and techniques involved in teaching, speaking, listening, writing, and spelling in the elementary school; organizing for instruction. <i>Fall, Spring.</i></p>	<p>LAE 5415 ED-TLP 3(3,0)  <b>Children's Literature in Elementary Education:</b> 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. <i>Spring.</i></p>

LAE 5465	ED-TLP	3(3,0)	LAT 1121	CAH-LANG	4(4,1)	LIN 4711L	HPA-COMD	1(0,1)
<b>Literature for Adolescents:</b> 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. <i>Fall.</i>			<b>Elementary Latin Language and Civilization II:</b> PR: LAT 1120 or equivalent. Continuation of LAT 1120. <i>Spring.</i>			<b>Language Analysis Lab:</b> PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing and describing language samples across the lifespan. Graded S/U. <i>Fall, Spring.</i>		
LAE 5495	ED-TLP	3(3,0)	LAT 1121H	CAH-LANG	4(4,1)	LIN 4801	CAH-ENG	3(3,0)
<b>Assessing Writing:</b> PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment. <i>Spring.</i>			<b>Honors Elementary Latin Language and Civilization II:</b> PR: LAT 1120H or equivalent and permission of Honors. Continuation of LAT 1120H, with honors-level content. <i>Occasional.</i>			<b>Language and Meaning:</b> PR: ENC 1102 and Sophomore standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings. <i>Occasional.</i>		
LAH 3130	CAH-HIST	3(3,0)	LIN 3010	CAH-ENG	3(3,0)	LIN 5137	CAH-ENG	3(3,0)
<b>Latin American History I:</b> PR: EUH 2000 and 2001 or C.I. The Colonial period. <i>Occasional.</i>			<b>Principles of Linguistics:</b> PR: ENC 1102. An overview of the modern linguist's approach to language. Analytic methods of phonology, morphology, syntax. Brief systematic survey of dialectology, language acquisition, and semantics. <i>Occasional.</i>			<b>Linguistics:</b> PR: Graduate status or senior standing or C.I. Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics. <i>Occasional.</i>		
LAH 3200	CAH-HIST	3(3,0)	LIN 3640	COS-PSYCH	3(3,0)	LIN 5675	CAH-ENG	3(3,0)
<b>Latin American History II:</b> PR: EUH 2000 and 2001 or C.I. The National period. <i>Occasional.</i>			<b>Psychology of Oral Communication:</b> Psychological principles involved in the communicative process, with application to individuals and groups. <i>Occasional.</i>			<b>English Grammar and Usage:</b> PR: Graduate status or senior standing or C.I. An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage. <i>Occasional.</i>		
LAH 3400	CAH-HIST	3(3,0)	LIN 3716	HPA-COMD	3(3,0)	LIT 2000	CAH-ENG	3(3,0)
<b>History of Mexico and Central America:</b> PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present. <i>Occasional.</i>			<b>Language Development: Birth Through 8 Years.:</b> 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. <i>Fall, Spring.</i>			<b>Introduction to Literary Interpretation:</b> PR: ENC 1102. Interpretation of fiction, drama, verse: conflict, characterization, point of view, rhetorical and poetic devices, figurative language, verse forms: application of critical approaches to selected works. <i>Occasional.</i>		
LAH 3470	CAH-HIST	3(3,0)	LIN 3717	HPA-COMD	3(3,0)	LIT 2110	CAH-ENG	3(3,0)
<b>History of the Caribbean:</b> PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present. <i>Occasional.</i>			<b>Language Development: 9 - 18 Years:</b> PR: LIN 3716. Study of the language acquisition process in children from nine through eighteen years and how meaning is conveyed through sounds, words, and sentences. <i>Fall, Spring.</i>			<b>World Literature I:</b> PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe. <i>Fall, Spring.</i>		
LAH 4461	CAH-HIST	3(3,0)	LIN 4100	CAH-ENG	3(3,0)	LIT 2120	CAH-ENG	3(3,0)
<b>History of Puerto Rico:</b> PR: Any two of the following: AMH 2010, AMH 2020, WOH 2012, or WOH 2022. History of Puerto Rico from pre-Columbian era to present. <i>Occasional.</i>			<b>History of the English Language:</b> PR: ENC 1102 and Sophomore standing. Study of the English language and its development from Anglo-Saxon to Modern. <i>Fall, Spring.</i>			<b>World Literature II:</b> PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others. <i>Fall, Spring.</i>		
LAH 4480	CAH-HIST	3(3,0)	LIN 4615	CAH-ENG	3(3,0)	LIT 2120H	CAH-ENG	3(3,0)
<b>History of Cuba:</b> PR: Any two of the following: AMH 2010, AMH 2020, WOH 2012, or WOH 2022. History of Cuba from pre-Columbian era to present. <i>Occasional.</i>			<b>African-American Styles of Communication:</b> PR: ENC 1102 and Junior Standing or C.I. African-American norms contrasted to Anglo-American norms with attention given to speech acts, kinesics, proxemics, paralinguistics, and gender roles. <i>Occasional.</i>			<b>World Literature II — Honors:</b> PR: Permission of Honors. Same as LIT 2120, with honors-level content. <i>Occasional.</i>		
LAH 4742	CAH-HIST	3(3,0)	LIN 4643	CAH-ENG	3(3,0)	LIT 3082	CAH-ENG	3(3,0)
<b>The Mexican Revolution:</b> PR: AMH 2020 or C.I. Political and social history of Mexico since 1910 and domination of one party rule over 70 years. <i>Occasional.</i>			<b>Cross Cultural Communication:</b> PR: ENC 1102 and Junior standing or C.I. Styles of spoken, written, and non-verbal communication of selected cultural groups. <i>Occasional.</i>			<b>Continental European Fiction Since 1900:</b> PR: ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation. <i>Occasional.</i>		
LAH 5713	CAH-HIST	3(3,0)	LIN 4643H	CAH-ENG	3(3,0)	LIT 3192	CAH-ENG	3(3,0)
<b>Colloquium in U.S.-Latin American Relations:</b> 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. <i>Occasional.</i>			<b>Honors Cross-Cultural Communication:</b> PR: ENC 1102H and permission of Honors. Styles of spoken, written, and nonverbal communication of selected cultural groups with honors level content. <i>Occasional.</i>			<b>Caribbean Literature:</b> PR: ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; in English. <i>Occasional.</i>		
LAS 4023	CAH-AAS	3(3,0)	LIN 4660	CAH-ENG	3(3,0)	LIT 3192H	CAH-ENG	3(3,0)
<b>African Caribbean Experience:</b> 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. <i>Occasional.</i>			<b>Linguistics and Literature:</b> PR: LIN 3010 or C.I. Language study as an aid to understanding literature. <i>Occasional.</i>			<b>Honors Caribbean Literature:</b> PR: Permission of Honors and ENC 1102H or equivalent credit. How Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; taught in English. Honors content. <i>Occasional.</i>		
LAT 1120	CAH-LANG	4(4,1)	LIN 4680	CAH-ENG	3(3,0)	LIT 3202	CAH-ENG	3(3,0)
<b>Elementary Latin Language and Civilization I:</b> 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. <i>Fall.</i>			<b>Modern English Grammar:</b> PR: ENC 1102 and Sophomore standing. Emphasis upon the analysis and comparison of traditional, structural, and transformational grammar. <i>Spring.</i>			<b>Death and Dying:</b> 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. <i>Occasional.</i>		
LAT 1120H	CAH-LANG	4(4,1)	LIN 4711	HPA-COMD	3(3,0)	LIT 3313	CAH-ENG	3(3,0)
<b>Honors Elementary Latin Language and Civilization I:</b> 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. <i>Occasional.</i>			<b>Language Analysis:</b> PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing, and describing language across the lifespan. <i>Fall, Spring.</i>			<b>Science Fiction:</b> PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings. <i>Occasional.</i>		

## UCF Courses and Descriptions

<p>LIT 3313H CAH-ENG 3(3,0)  <b>Honors Science Fiction Literature:</b> 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. <i>Occasional.</i></p>	<p>LIT 4374H CAH-ENG 3(3,0)  <b>Honors Literature of the Bible:</b> PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Honors content. <i>Occasional.</i></p>	<p>LIT 5435 CAH-ENG 3(3,0)  <b>Rhetoric of Science:</b> PR: Graduate standing or C.I. To engage in rhetorical analysis of traditional scientific texts and critically examine the discourse of technology. <i>Occasional.</i></p>
<p>LIT 3383 CAH-ENG 3(3,0)  <b>Women in Literature:</b> 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. <i>Occasional.</i></p>	<p>LIT 4433 CAH-ENG 3(3,0)  <b>Literature of Science and Technology:</b> PR: ENC 1102 and Junior Standing or C.I. Major works of non-fiction that address and describe the history, philosophy, politics, and new ideas in science and technology. <i>Fall.</i></p>	<p>LIT 5556 CAH-ENG 3(3,0)  <b>Advanced Feminist Theories:</b> PR: Graduate status or senior standing or C.I. Graduate level Feminist Theories from "French Feminism" to "Critical Race Theories.". <i>Occasional.</i></p>
<p>LIT 3383H CAH-ENG 3(3,0)  <b>Honors Women in Literature:</b> 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. <i>Occasional.</i></p>	<p>LIT 4554 CAH-ENG 3(3,0)  <b>Advanced Feminist Theories:</b> PR: ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices. <i>Occasional.</i></p>	<p>MAA 4226 COS-MATH 4(4,0)  <b>Advanced Calculus I:</b> PR: MHF 3302, MAC 2313 and MAS 3106, or C.I. Limits, sequences, and continuity, differentiation and integration. Derivations of integrals. Infinite series and convergence. The BalzanoWeierstrass Theorem and the Heine-Borel Theorem. Extensions in Euclidian n-space. <i>Fall.</i></p>
<p>LIT 3394 CAH-ENG 3(3,0)  <b>Literature of AIDS:</b> 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. <i>Occasional.</i></p>	<p>LIT 4937H CAH-ENG 3(3,0)  <b>English Honors Seminar:</b> PR: ENG 3014 and permission of Honors. In-depth study of language and/or literature with an emphasis on creative and critical abilities. <i>Occasional.</i></p>	<p>MAA 4227 COS-MATH 3(3,0)  <b>Advanced Calculus II:</b> PR: MAA 4226 or C.I. Continuation of MAA 4226. <i>Spring.</i></p>
<p>LIT 3394H CAH-ENG 3(3,0)  <b>Honors Literature of AIDS:</b> PR: Permission of Honors and ENC 1102H or equivalent credit. Literature related to AIDS: Essays, short stories, plays, poetry, diaries, and novels. Honors content. <i>Occasional.</i></p>	<p>LIT 5028 CAH-ENG 3(3,0)  <b>Form and Theory of Short Story:</b> PR: Graduate status or senior standing or C.I. Evolving forms and theories of short fiction and the implications of form and theory. <i>Occasional.</i></p>	<p>MAA 5210 COS-MATH 4(4,0)  <b>Topics in Advanced Calculus:</b> PR: MAA 4226 or equivalent, graduate status or senior standing, or C.I. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor's theorem, inverse and implicit function theorems. <i>Fall.</i></p>
<p>LIT 3482 CAH-ENG 3(3,0)  <b>Literature &amp; Popular Culture:</b> PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions. <i>Occasional.</i></p>	<p>LIT 5039 CAH-ENG 3(3,0)  <b>Studies in Contemporary Poetry:</b> PR: Graduate status or senior standing or C.I. English language poetry from 1945 to the present. Emphasis will be on American poets, but others such as English or Australian will be included. <i>Occasional.</i></p>	<p>MAA 5405 COS-MATH 3(3,0)  <b>Complex Variables:</b> 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. <i>Fall.</i></p>
<p>LIT 3823 CAH-ENG 3(3,0)  <b>Hispanic Women Writers:</b> PR: ENC 1102. Hispanic women writers in a variety of genres. May be repeated for credit. <i>Occasional.</i></p>	<p>LIT 5097 CAH-ENG 3(3,0)  <b>Studies in Contemporary Fiction:</b> PR: Graduate status or senior standing or C.I. Fiction in the last 20 years in the United States and Britain. May be repeated for credit when content is different. <i>Occasional.</i></p>	<p>MAA 5416 COS-MATH 3(3,0)  <b>Foundations of Analysis:</b> PR: MAA 4226, and graduate status or senior standing or C.I. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss' theorems. <i>Odd Spring.</i></p>
<p>LIT 3905 CAH-ENG 3(3,0)  <b>Directed experience in Literature:</b> PR: ENC 1102, C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit. <i>Occasional.</i></p>	<p>LIT 5250 CAH-ENG 3(3,0)  <b>The Victorian Age: Poetry:</b> PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others. <i>Occasional.</i></p>	<p>MAC 1105 COS-MATH 3(3,0)  <b>College Algebra:</b> 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. <i>Fall, Spring.</i></p>
<p>LIT 3911H CAH-ENG 1(1,0)  <b>Research Methods — Honors:</b> PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing. <i>Occasional.</i></p>	<p>LIT 5269 CAH-ENG 3(3,0)  <b>Nineteenth-Century Essays:</b> PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century. <i>Occasional.</i></p>	<p>MAC 1105H COS-MATH 3(3,0)  <b>Honors College Algebra:</b> 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. <i>Occasional.</i></p>
<p>LIT 4043 CAH-ENG 3(3,0)  <b>Modern Drama As Literature:</b> PR: ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama. <i>Occasional.</i></p>	<p>LIT 5309 CAH-ENG 3(3,0)  <b>Popular Culture and Media:</b> PR: Graduate status or senior standing or C.I. Study of contemporary media and the literature of popular culture. <i>Occasional.</i></p>	<p>MAC 1114 COS-MATH 3(3,0)  <b>College Trigonometry:</b> 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. <i>Fall, Spring.</i></p>
<p>LIT 4184 CAH-ENG 3(3,0)  <b>Irish Literature:</b> PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience. <i>Occasional.</i></p>	<p>LIT 5366 CAH-ENG 3(3,0)  <b>The Romantic Revolt (19th Century Literature):</b> PR: Graduate status or senior standing or C.I. The romantic revolt in poetry and prose; English, American and Continental literature from 1798 to 1832. <i>Occasional.</i></p>	
<p>LIT 4303 CAH-ENG 3(3,0)  <b>Post-World War II Fiction:</b> PR: ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries. <i>Occasional.</i></p>	<p>LIT 5387 CAH-ENG 3(3,0)  <b>Captives, Housewives, and Coquettes:</b> PR: Graduate status or senior standing or C.I. Course considers early American women's literature from 17th to 19th centuries. <i>Occasional.</i></p>	
<p>LIT 4374 CAH-ENG 3(3,0)  <b>Literature of the Bible:</b> PR: ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. <i>Occasional.</i></p>	<p>LIT 5389 CAH-ENG 3(3,0)  <b>Studies in Gender &amp; Fiction Writing:</b> PR: Graduate status or senior standing or C.I. Graduate study of gender's implications for teaching and practice of fiction writing. <i>Occasional.</i></p>	



# UCF Courses and Descriptions

**MAC 2147** COS-MATH 5(5,0)  
**Mathematics for Calculus:** PR: Solid background in algebra or trigonometry, or C.I. For students with good mathematical backgrounds who do not want to go directly into calculus. Topics include matrices, determinants, permutations, combinations, sequences, series, induction, trigonometric functions. The "NC" grading policy applies to this course. *Even Fall, Spring.*

**MAC 2233** COS-MATH 3(3,0)  
**Concepts of Calculus:** PR: MAC 1105 or C.I. The differential and integral calculus of rational, exponential and logarithmic functions, with applications to business analysis. Not open to students with credit in MAC 2253 or MAC 2311. The "NC" grading policy applies to this course. *Fall, Spring.*

**MAC 2241** COS-MATH 4(4,0)  
**Calculus for Life Sciences:** PR: MAC 1105. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biologists and others required to have one semester of calculus. The "NC" grading policy applies to this course. *Occasional.*

**MAC 2253** COS-MATH 3(3,0)  
**Applied Calculus I:** PR: MAC 1105 and MAC 1114 or C.I. Differential and integral calculus. An introduction to differential equations and Laplace Transforms. Applications to engineering technology. Not open to students with credit in MAC 2233 or MAC 2311. The "NC" grading policy applies to this course. *Fall, Spring.*

**MAC 2254** COS-MATH 3(3,0)  
**Applied Calculus II:** PR: MAC 2253 or C.I. Continuation of MAC 2253. *Fall, Spring.*

**MAC 2311** COS-MATH 4(4,0)  
**Calculus with Analytic Geometry I:** PR: MAC 1105 and MAC 1114 or equivalent or C.I. The differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the 2nd and 3rd semesters the topics also include sequences and series, Taylor series, and the differential and integral calculus for functions of several variables. The "NC" grading policy applies to this course. *Fall, Spring.*

**MAC 2311H** COS-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. *Occasional.*

**MAC 2312** COS-MATH 4(4,0)  
**Calculus with Analytic Geometry II:** PR: MAC 2311 or C.I. Continuation of MAC 2311. *Fall, Spring.*

**MAC 2312H** COS-MATH 4(4,0)  
**Calculus with Analytic Geometry II (Honors):** PR: Permission of Honors. Continuation of MAC 2311H. *Occasional.*

**MAC 2313** COS-MATH 4(4,0)  
**Calculus with Analytic Geometry III:** PR: MAC 2312 or C.I. Continuation of MAC 2312. *Fall, Spring.*

**MAC 2313H** COS-MATH 4(4,0)  
**Calculus with Analytic Geometry III (Honors):** PR: Permission of Honors. Continuation of MAC 2312H. *Occasional.*

**MAC 3103H** COS-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. *Occasional.*

**MAD 2104** COS-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. *Fall, Spring.*

**MAD 4203** COS-MATH 4(4,0)  
**Combinatorics and Graph Theory I:** PR: MAC 2312, STA 2023, and MHF 3302. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and diagraphs, trees, path problems, coloring planarity, connectiveness matchings and coverings, applications. *Fall.*

**MAD 5205** COS-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. *Odd Spring.*

**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. *Fall, Spring.*

**MAE 4300** ED-CFCS 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. *Fall.*

**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. *Fall, Spring.*

**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. *Fall.*

**MAE 4634** ED-TLP 3(2,1)  
**Programs in Teaching of Mathematics:** PR: C.I. A consideration of special programs, strategies, and materials. Emphasis on individual needs of students. *Spring.*

**MAE 5318** ED-TLP 3(3,0)  
**Current Methods in Elementary School Mathematics:** PR: EDG 4323. Strategies of instruction of computation and concepts of number, geometry, and measurement; instructional materials. (Meets Elementary Education certification requirements.). *Fall, Spring.*

**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. *Occasional.*

**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. *Occasional.*

**MAE 5935** COS-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. *Even Fall.*

**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. *Fall, Spring.*

**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. *Occasional.*

**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. *Fall, Spring.*

**MAN 4029** BA-MAN 3(3,0)  
**Service Organization Management:** PR: Management major, MAN 3025 and ISM 3530. Study of the special characteristics, problems, and methods for managing service-oriented organizations. *Occasional.*

**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. *Fall, Spring.*

**MAN 4240** BA-MAN 3(3,0)  
**Organizations: Theory and Behavior:** PR: Management major, MAN 3025. A course providing a micro/macro approach to the study of organizations by integrating organizational theory and organizational behavioral science concepts. *Fall, Spring.*

**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. *Odd Spring.*

**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. *Fall, Spring.*

**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. *Fall, Odd Spring.*

## UCF Courses and Descriptions

- 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. *Fall, Spring.*
- MAN 4401** BA-MAN 3(3,0)  
**Labor Relations Management:** PR: Management major, Junior standing, MAN 3301. The impact of employee organizations on labor relations, current problems, conflicts and trends; the development of managerial approaches to achieve labor-management cooperation. *Occasional.*
- MAN 4441** BA-MAN 3(3,0)  
**Conflict Resolution and Negotiation:** PR: MAN 3025. Conflict resolution and negotiation theories and processes applied to human resource management practices and other management activities in work organizations. *Occasional.*
- MAN 4521** BA-MAN 3(3,0)  
**Production Planning and Control:** PR: Management major, ISM 3530. In depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization. *Occasional.*
- MAN 4600** BA-MAN 3(3,0)  
**International Management:** PR: Management major, GEB 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management. *Fall, Spring.*
- 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. *Fall, Spring.*
- MAN 4720** BA-MAN 3(3,0)  
**Strategic Management:** PR: MAN 3025, MAR 3023, FIN 3403 and GEB 3031. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities. *Fall, Spring.*
- 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. *Occasional.*
- MAN 4802** BA-MAN 3(3,0)  
**Entrepreneurship:** PR: GEB 3031 or (MAN 3025 and MAR 3023). Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and developing a new venture. *Fall, Spring.*
- MAN 4804** BA-MAN 3(3,0)  
**Small Business Consulting:** PR: 3.0 GPA and Business major in graduation term or C.I. Students are assigned teams and work with a local small business. *Occasional.*
- 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. *Occasional.*
- MAN 5021** BA-MAN 1.5(1.5,0)  
**Management Foundations:** PR: Graduate standing or C.I. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control. *Fall, Spring.*
- 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. *Occasional.*
- 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. *Even Fall, Even Spring.*
- MAP 2302** COS-MATH 3(3,0)  
**Differential Equations:** PR: MAC 2313 or C.I. Methods of solution for first order equations. Linear equations. Laplace transforms. Series solutions. Selected applications. *Fall, Spring.*
- MAP 2302H** COS-MATH 3(3,0)  
**Differential Equations (Honors):** PR: Permission of Honors and MAC 2313 or C.I. Methods of solution for first order equations. Linear equations. Numerical methods; Laplace transforms. Series solutions. Selected applications. Students will complete projects. For Honors students from all disciplines. *Occasional.*
- MAP 3401** ECS-ENT 3(3,0)  
**Problem Analysis:** PR: MAC 2311 or MAC 2253 or equivalent. Application of calculus techniques used in solving selected problems in Engineering Technology. *Fall, Spring.*
- MAP 4103** COS-MATH 3(3,0)  
**Mathematical Modeling I:** PR: MAC 2311 and MAP 2302. An overview of model construction. Model fitting, optimization models, empirical construction and modeling dynamic behavior. *Spring.*
- MAP 4153** COS-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. *Fall.*
- MAP 4171** COS-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. *Occasional.*
- MAP 4307** COS-MATH 3(3,0)  
**Applications of Complex Variables (Advanced Engineering Math Series):** PR: MAP 2302. Analytic functions and complex integration. Residue integration, Taylor and Laurent series, conformal mapping and the application of complex analysis to Potential Theory. *Spring.*
- MAP 4363** COS-MATH 3(3,0)  
**Applied Boundary Value Problems I:** PR: MAP 2302 or C.I. Systems of linear equations. Fourier series. The eigenvalue problem of Sturm-Liouville. The method of Green's functions. *Fall.*
- MAP 4364** COS-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. *Spring.*
- MAP 4371** COS-MATH 3(3,0)  
**Numerical Methods for Differential Equations:** PR: MAC 2313, MAS 3105 or C.I. Numerical theory and practices used in solving ordinary differential equations and PDE. Covers Euler's method, trapezoidal rule, multi-step methods, Runge-Kutta, error control, finite differences, implicit and explicit schemes, iterative methods, and stability. *Occasional.*
- MAP 5106** COS-MATH 3(3,0)  
**Introduction to Quantitative Aspects of Modeling and Simulation:** PR: MAC 2253, graduate status or senior standing, or C.I. An introduction to calculus, matrix algebra, probability and statistics, and high level programming languages. A student who has mastered this content does not have to take this course. *Occasional.*
- MAP 5117** COS-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. *Fall.*
- MAP 5336** COS-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. *Spring.*
- MAP 5385** COS-MATH 3(3,0)  
**Applied Numerical Mathematics:** PR: MAP 2302, graduate status or senior standing, or C.I. Classical topics or numerical analysis and their applications, Romberg integration, Richardson extrapolation, Gaussian quadrature schemes. *Spring.*
- MAP 5396** COS-MATH 3(3,0)  
**Splines and Data Fitting:** PR: MAS 3106, MAS 3105, MAP 2302, and graduate status or senior standing or C.I. Univariate splines and their application to data fitting. Applications to regression analysis, differential and integral equations. Algorithms to use different types of splines in computation. *Occasional.*
- MAP 5404** COS-MATH 3(3,0)  
**Mathematical Foundations for Industrial Engineering and Operations:** PR: MAP 2302, ESI 5219 or equivalent, ESI 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. *Occasional.*
- MAP 5407** COS-MATH 3(3,0)  
**Applied Mathematics I:** PR: MAP 2302, and graduate status or senior standing or C.I. Calculus of variations. Hamilton's principle, Rayleigh-Ritz method, Sturm-Liouville theory, Green's functions for ordinary differential equations, introduction to integral equations. *Fall.*
- MAP 5426** COS-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. *Occasional.*
- MAP 5435** COS-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. *Occasional.*

<p><b>MAP 5514</b>      <b>COS-MATH</b>      <b>3(3,0)</b>  <b>Linear and Nonlinear Waves I:</b> 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. <i>Occasional.</i></p>	<p><b>MAR 4156</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>International Marketing:</b> PR: Marketing major or minor, MAR 3023. Investigates strategy, policy and the variables in international marketing decisions. <i>Fall, Spring.</i></p>	<p><b>MAS 3105</b>      <b>COS-MATH</b>      <b>4(4,0)</b>  <b>Matrix and Linear Algebra:</b> PR: MAC 2312 or C.I. Matrices, determinants, vector spaces in <math>R^n</math>, linear independence, basis, solutions of systems, range of linear transformations, eigenvectors, Jordan Form, matrix functions, quadratic forms. <i>Fall, Spring.</i></p>
<p><b>MAP 5931</b>      <b>COS-MATH</b>      <b>1(1,0)</b>  <b>Research Seminar:</b> PR: Graduate status or senior standing or C.I. Four instructors will introduce the students to a research area by presenting necessary background and presenting current investigations. Different branches of mathematics will be presented for a sense of diversity. <i>Occasional.</i></p>	<p><b>MAR 4231</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Retailing Management:</b> PR: Marketing major or minor, MAR 3023. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc. <i>Occasional.</i></p>	<p><b>MAS 3106</b>      <b>COS-MATH</b>      <b>4(4,0)</b>  <b>Linear Algebra:</b> PR: MHF 3302, MAS 3105, or C.I. Abstract vector spaces, linear transformations, isomorphisms, projections, innerproducts, the spectral theorem, Jordan Canonical Form. (Only offered spring semester). <i>Spring.</i></p>
<p><b>MAR 3023</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Marketing:</b> PR: Junior standing and appropriate major or minor. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad. <i>Fall, Spring.</i></p>	<p><b>MAR 4392</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Advanced Professional Selling:</b> PR: MAR 3391 and Department Consent. Advanced study of the professional selling process, including team selling, negotiating, customer conflict management, and CRM systems. <i>Fall.</i></p>	<p><b>MAS 3203</b>      <b>COS-MATH</b>      <b>3(3,0)</b>  <b>Introduction to Number Theory:</b> PR: MHF 3302 or C.I. The course will include the following topics: inductive reasoning, factorization, the division algorithm and congruences. <i>Spring.</i></p>
<p><b>MAR 3023H</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Marketing - Honors:</b> PR: Junior standing and business major or minor, permission of Honors. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control. <i>Fall.</i></p>	<p><b>MAR 4413</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Strategic Issues in Sales:</b> PR: MAR 4392 and MAR 3403. Advanced study of selected contemporary strategic issues in selling and sales management. <i>Spring.</i></p>	<p><b>MAS 4301</b>      <b>COS-MATH</b>      <b>3(3,0)</b>  <b>Algebraic Structures:</b> PR: MHF 3302 and MAS 3106 or C.I. An introduction to groups, rings and fields. <i>Fall.</i></p>
<p><b>MAR 3323</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Integrated Marketing Communication:</b> PR: Marketing major or minor, MAR 3023. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs. <i>Fall, Spring.</i></p>	<p><b>MAR 4711</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Sport Marketing:</b> PR: Appropriate major or minor, MAR 3023. Study of marketing as it applies to the sports and leisure industry. <i>Occasional.</i></p>	<p><b>MAS 5145</b>      <b>COS-MATH</b>      <b>3(3,0)</b>  <b>Advanced Linear Algebra and Matrix Theory:</b> 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. <i>Occasional.</i></p>
<p><b>MAR 3391</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Professional Selling:</b> PR: Marketing major or minor, MAR 3023. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling. <i>Fall, Spring.</i></p>	<p><b>MAR 4712</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Healthcare Marketing:</b> PR: Marketing major or minor, MAR 3023. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers. <i>Occasional.</i></p>	<p><b>MAS 5311</b>      <b>COS-MATH</b>      <b>3(3,0)</b>  <b>Abstract Algebra with Applications:</b> PR: MAS 4301 or undergraduate abstract algebra, and graduate status or senior standing or C.I. Group actions, the class equation, Sylow Theorems, polynomial rings, Euclidian domains, principal ideal domains, field extensions, modules, and semi-simple rings. <i>Fall.</i></p>
<p><b>MAR 3403</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Sales Force Management:</b> PR: Marketing major or minor, MAR 3023. An overview of the sales management process. Emphasis on sales program formulation and implementation. <i>Fall, Spring.</i></p>	<p><b>MAR 4715</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Entertainment Marketing:</b> PR: MAR 3023. Application of marketing theory and tools to the marketing of products and services in the entertainment industry. <i>Occasional.</i></p>	<p><b>MAT 5711</b>      <b>COS-MATH</b>      <b>3(3,0)</b>  <b>Scientific Computing:</b> 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. <i>Fall.</i></p>
<p><b>MAR 3503</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Customer Behavior:</b> PR: Marketing major or minor, MAR 3023. End user and business customer buying behavior, building long-term customer relationships, segmentation of markets and positioning strategies. <i>Fall, Spring.</i></p>	<p><b>MAR 4724</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Strategic Foundations in Global E-Business:</b> PR: Marketing major or minor, MAR 3023. Course inspects the forces shaping managerial decision-making in a new rapidly changing electronic global marketplace. Emphasis on product-market entry strategies, standardization/adaptation, and organizing for efficient international marketing operations. <i>Occasional.</i></p>	<p><b>MCB 1310</b>      <b>BCBS-M&amp;M</b>      <b>3(3,0)</b>  <b>Introduction to Biotechnology and Genetic Engineering:</b> Introduction to theories, laws, principles, foundations, scientific methods of genetic engineering &amp; biotechnology and their applications in agriculture, environment and human health. <i>Fall, Spring.</i></p>
<p><b>MAR 3613</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Marketing Analysis and Research:</b> PR: Appropriate major or minor, MAR 3023, and one of the following: ECO 3401, ECO 3411, STA 2023, STA 3032. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized. <i>Fall, Spring.</i></p>	<p><b>MAR 4803</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Marketing Management:</b> PR: Marketing major or minor, MAR 3503 and MAR 3613. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments. <i>Fall, Spring.</i></p>	<p><b>MCB 2004C</b>      <b>BCBS-M&amp;M</b>      <b>4(3,2)</b>  <b>Microbiology for Health Professionals:</b> PR: BSC 2010C, CHM 1032 or CHM 2045C. A survey of microbiology for the health professional. <i>Spring.</i> M&amp;S fee: \$45.00</p>
<p><b>MAR 3641</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Marketing Intelligence:</b> PR: Marketing major or minor, MAR 3023. Contemporary sources and applications of information concerning external forces impacting market decision making. <i>Fall, Spring.</i></p>	<p><b>MAR 4804</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Marketing Strategy:</b> PR: Marketing major or minor, MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making. <i>Fall, Spring.</i></p>	<p><b>MCB 3020C</b>      <b>BCBS-M&amp;M</b>      <b>5(3,4)</b>  <b>General Microbiology:</b> PR: BSC 2010C, CHM 2046, or CR: CHM 2210. Fundamentals of microbiology, evaluating microbial structure and function, metabolism, growth, genetics, virology environmental control, ecology, pathogenicity; and laboratory techniques. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>
<p><b>MAR 3880</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>E-Marketing:</b> PR: Marketing major or minor, MAR 3023, CGS 2100C. Course provides an in-depth study of the role of the internet in developing marketing strategies and plans. <i>Occasional.</i></p>	<p><b>MAR 4841</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Services Marketing:</b> PR: Marketing major or minor, MAR 3023. Examination of marketing in services industries, with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of services strategies. <i>Fall, Spring.</i></p>	<p><b>MCB 3020H</b>      <b>BCBS-M&amp;M</b>      <b>5(3,5)</b>  <b>General Microbiology Honors:</b> 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. <i>Fall.</i></p>
	<p><b>MAR 4941</b>      <b>BA-MAR</b>      <b>3(3,0)</b>  <b>Marketing Internship:</b> PR: Marketing major, application approval, consent of department chair. Provides student with supervised, market-related work experience in a sponsoring organization. Application required. <i>Fall, Spring.</i></p>	
	<p><b>MAR 5055</b>      <b>BA-MAR</b>      <b>1-3(1-3,0)</b>  <b>Marketing Foundations:</b> PR: Acceptance into the graduate program. Study of functions, institutions, and basic marketing of goods in the U.S. economy. <i>Fall, Spring.</i></p>	

## UCF Courses and Descriptions

<p>MCB 3203 BCBS-M&amp;M 3(3,0)  <b>Pathogenic Microbiology:</b> PR: MCB 3020C or C.I. Microorganisms producing disease in man and other animals; means of transmission; protection against disease. <i>Spring.</i></p>	<p>MCB 5654 BCBS-M&amp;M 3(3,0)  <b>Applied Microbiology:</b> PR: MCB 3020C or C.I. Microbial biochemistry of industrial processes including: economics, screening, scale up, quality control and applied genetics. <i>Occasional.</i></p>	<p>MLS 4420C BCBS-M&amp;M 1(1,2)  <b>Clinical Mycology:</b> PR: Admission to the professional phase of the MLS program with C.I. Instruction and laboratory practice in the isolation and identification of fungi associated with mycotic infections of man. <i>Occasional.</i> M&amp;S fee: \$15.00</p>
<p>MCB 3203L BCBS-M&amp;M 1(0,3)  <b>Pathogenic Microbiology:</b> CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms. <i>Spring.</i> M&amp;S fee: \$45.00</p>	<p>MCB 5932 BCBS-M&amp;M Variable  <b>Current Topics in Molecular Biology:</b> 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. <i>Occasional.</i></p>	<p>MLS 4430C BCBS-M&amp;M 2(1,3)  <b>Clinical Parasitology:</b> PR: Admission to the professional phase of the MLS program with C.I. Instruction and laboratory practice in the examination and study of clinical material for the detection and identification of animal parasites. <i>Even Fall.</i> M&amp;S fee: \$15.00</p>
<p>MCB 3522H BCBS-M&amp;M 3(3,0)  <b>Biotechnology and Genetic Engineering Seminar:</b> PR: Permission of Honors. Principles, applications, laws, ethics and impact on society of biotechnology and genetic engineering in agriculture, medicine, forestry, environment, computer/ industrial/ chemical engineering and business administration. <i>Occasional.</i></p>	<p>MGF 1106 COS-MATH 3(3,0)  <b>Finite Mathematics:</b> 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. <i>Fall, Spring.</i></p>	<p>MLS 4460C BCBS-M&amp;M 5(3,6)  <b>Clinical Pathogenic Microbiology:</b> 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. <i>Spring.</i> M&amp;S fee: \$45.00</p>
<p>MCB 4114C BCBS-M&amp;M 4(3,3)  <b>Determinative &amp; Systemic Microbiology:</b> PR: MCB 3020C, MCB 3203. Microbial classification taxonomic rules and nomenclature techniques for identification and interrelating the phyla and taxa of bacteria. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p>MHF 3302 COS-MATH 3(3,0)  <b>Logic and Proof in Mathematics:</b> PR: MAC 2311. CR: MAC 2312. Basic mathematical logic. Methods of proof in mathematics. Application of proofs to elementary mathematical structures. <i>Fall, Spring.</i></p>	<p>MLS 4505C BCBS-M&amp;M 3(3,0)  <b>Immunodiagnostics:</b> PR: PCB 3233. Theory and application of immunologic principles and their use in diagnosis of human disease. <i>Spring.</i> M&amp;S fee: \$15.00</p>
<p>MCB 4312 BCBS-M&amp;M 3(3,0)  <b>Molecular Biotechnology:</b> PR: MCB 3020C. Principles, techniques, and applications of Molecular Biotechnology in genetically modified food, cloning, gene therapy, and forensics; transgenic animals; patents and regulations. <i>Fall.</i></p>	<p>MHF 4404 COS-MATH 3(3,0)  <b>History of Mathematics:</b> PR: MAC 2312 or C.I. A chronological study of the evolution of mathematical thought from primitive counting through modern ideas of the 20th century. Recommended for prospective teachers in mathematics. <i>Fall.</i></p>	<p>MLS 4550 BCBS-M&amp;M 4(2,6)  <b>Clinical Immunohematology:</b> 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. <i>Spring.</i> M&amp;S fee: \$15.00</p>
<p>MCB 4414 BCBS-M&amp;M 3(3,0)  <b>Microbial Metabolism:</b> PR: MCB 3020C, CR: BCH 4053. Interrelationship between cellular structure function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment. <i>Fall, Spring.</i></p>	<p>MHS 2330 ED-CFCS 3(3,0)  <b>Career Planning:</b> Introduction to career and life planning theories and concepts that assists students in applying these to their own lives. <i>Odd Fall, Even Spring.</i></p>	<p>MLS 4625 BCBS-M&amp;M 3(3,0)  <b>Advanced Clinical Chemistry I:</b> 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. <i>Fall.</i></p>
<p>MCB 4503C BCBS-M&amp;M 3(3,0)  <b>Virology:</b> PR: PCB 3522. Concepts of structure and function of viruses, virus-host interactions and viral, and related disease states. <i>Occasional.</i></p>	<p>MHS 2441 ED-CFCS 3(3,0)  <b>Marriage and Intimate Relationships:</b> Examination of the dynamics of intimate relationships, dating, courtship and challenges of establishing stable and satisfying marriage, impact of divorce, premarital preparation and marital education. <i>Occasional.</i></p>	<p>MLS 4625L BCBS-M&amp;M 1(0,3)  <b>Advanced Clinical Chem I Lab:</b> CR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory. <i>Fall.</i></p>
<p>MCB 4603 BCBS-M&amp;M 3(3,0)  <b>Environmental Microbiology:</b> PR: MCB 3020C. Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environments. <i>Fall.</i></p>	<p>MHS 5005 ED-CFCS 3(3,0)  <b>Introduction to the Counseling Profession:</b> 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. <i>Fall, Spring.</i></p>	<p>MLS 4630 BCBS-M&amp;M 3(3,0)  <b>Advanced Clinical Chemistry II:</b> PR: Admission to professional phase of MLS or C.I. Correlation of laboratory tests to specific human disease states. <i>Spring.</i></p>
<p>MCB 5205 BCBS-M&amp;M 3(3,0)  <b>Infectious Processes:</b> PR: MCB 3020C or C.I. Discussion of current theories of the infectious process and the response of host cells and tissue to infection. <i>Fall.</i></p>	<p>MLS 3220C BCBS-M&amp;M 3(3,3)  <b>Techniques in Clinical Microscopy:</b> Analysis of body fluids and urine by chemical and microscopic methods with interpretation and correlation to human disease. <i>Fall.</i> M&amp;S fee: \$25.00</p>	<p>MLS 4630L BCBS-M&amp;M 1(0,3)  <b>Advanced Clinical Chem II Lab:</b> PR: CHM 2205 or C.I. CR: MLS 4630. Performance of laboratory procedures routinely used in a clinical chemistry laboratory. <i>Occasional.</i></p>
<p>MCB 5225 BCBS-M&amp;M 3(3,0)  <b>Molecular Biology of Disease:</b> PR: Graduate standing or C.I. An in-depth study of the molecular biological mechanisms of diseases in experimental animal models and human populations. <i>Occasional.</i></p>	<p>MLS 3305 BCBS-M&amp;M 3(3,0)  <b>Hematology:</b> PR: CHM 2210 and PCB 3703C. Overview of the hematopoietic system and disease states associated with blood and bone marrow. <i>Spring.</i></p>	<p>MLS 4830C BCBS-M&amp;M 4(4,8)  <b>Interpretive &amp; Practical Clinical Chemistry:</b> PR: Admission to the MLS program, MLS 4625, MLS 4630. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on practice both in the student lab and affiliate. <i>Fall.</i> M&amp;S fee: \$15.00</p>
<p>MCB 5505 BCBS-M&amp;M 3(3,0)  <b>Molecular Virology:</b> 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. <i>Occasional.</i></p>	<p>MLS 3305L BCBS-M&amp;M 1(0,6)  <b>Hematology Lab:</b> PR: MLS 3305. Practical laboratory procedures routinely performed for analyzing hematologic abnormalities. <i>Spring.</i></p>	<p>MLS 4831C BCBS-M&amp;M 4(4,8)  <b>Interpretive &amp; Practical Immunohematology:</b> PR: Admission to the MLS program, MLS 3305, MLS 4334. Advanced study of principles of immunohematology. Application and performance of technique to solve problems in blood banking will be included. <i>Fall.</i> M&amp;S fee: \$15.00</p>
<p>MCB 5527 BCBS-M&amp;M 3(3,0)  <b>Genetic Engineering and Biotechnology:</b> PR: PCB 3522 and PCB 4524 or C.I. Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems, Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth. <i>Fall.</i></p>	<p>MLS 3705 BCBS-M&amp;M 3(3,0)  <b>Concepts in Education/Management:</b> 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. <i>Spring.</i></p>	<p>MLS 4832C BCBS-M&amp;M 4(4,8)  <b>Interpretive &amp; Practical Hematology:</b> PR: Admission to the MLS program, MLS 3305, MLS 4334. Advanced study of hematology and pathophysiological correlation to hematology disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates. <i>Fall.</i> M&amp;S fee: \$15.00</p>
	<p>MLS 4334 BCBS-M&amp;M 3(3,0)  <b>Hemostasis:</b> PR: CHM 2210 and PCB 3703C. Overview of hemostatic and fibrinolytic conditions at the time of disease and the relationship of lab tests to diagnosis. <i>Occasional.</i></p>	

**MLS 4833C**    **BCBS-M&M**    **4(4,8)**  
**Diagnostic Microbiology:** PR: Admission to the MLS program, MLS 4460C. 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. *Fall*. M&S fee: \$15.00

**MLS 4834C**    **BCBS-M&M**    **4(4,8)**  
**Advanced Instrumentation:** PR: Admission to the MLS program, MLS 4833C. An examination review & practice of technologies impacting the clinical laboratory to include flow cytometry, PCR, LIS, robotics. Case studies will be a fundamental part of this course. *Occasional*.

**MLS 4910**    **BCBS-M&M**    **1(1,0)**  
**Introduction to Clinical Research:** PR: MLS 3220C, MLS 4625, MLS 4550. Introduces MLS students to different types of research within the clinical setting. *Spring*.

**MLS 4933**    **BCBS-M&M**    **2(2,0)**  
**Medical Technology Seminar:** PR: MLS Senior status. Review of MLS coursework, case study discussions and preparation for certification. Graded S/U. *Spring*.

**MMC 2004**    **COS-COMM**    **3(3,0)**  
**Mass Media:** Introduction to the nation's mass media, including newspapers, radio, television, magazines, advertising, and public relations. *Fall, Spring*.

**MMC 3420**    **COS-COMM**    **3(3,0)**  
**Mass Media Research Methods:** PR: Communication major. Theory and methods of research used by media professionals and academics, focusing on radio / TV and advertising / public relations research. *Fall, Spring*.

**MMC 4200**    **COS-COMM**    **3(3,0)**  
**Mass Communication Law:** PR: SPC 1600 or SPC 1016 and Junior standing. Legal rights and responsibilities of the mass media. *Fall, Spring*.

**MMC 4203**    **COS-COMM**    **3(3,0)**  
**Journalism Ethics:** PR: MMC 4200. Ethical problems, codes, and practices in newsrooms. *Occasional*.

**MMC 4254**    **COS-COMM**    **3(3,0)**  
**Ad/Pr campaigns:** PR: AD/PR majors only and ADV 3000, PUR 4000 and either PUR 3100 or ADV 4101. Planning and managing communication Campaigns that integrate both advertising and public relations strategies. *Even Fall, Odd Spring*.

**MMC 4263**    **COS-COMM**    **3(3,0)**  
**New Media Technologies:** PR: Majors only, RTV 3200. An examination of the technologies impacting the communications media environment and society. *Occasional*.

**MMC 4300**    **COS-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. *Occasional*.

**MMC 4602**    **COS-COMM**    **3(3,0)**  
**Contemporary Media Issues:** PR: A minimum grade of "C" (2.0) in JOU 2100C. Relationship between the mass media and society; examination of social and ethical issues and responsibilities of the media's relationship with government. *Even Spring*.

**MSL 1001C**    **ECS-AROTC**    **2(1,1)**  
**Foundations of Officership:** 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. *Fall*.

**MSL 1002C**    **ECS-AROTC**    **2(1,1)**  
**Basic Leadership:** Presents fundamental leadership concepts and doctrine; practice basic skills that underlie effective problem solving; examine the officer experience. *Spring*.

**MSL 2101C**    **ECS-AROTC**    **2(1,1)**  
**Individual Leadership Studies:** Develops knowledge of self, self-confidence, and leadership skills; develop problem solving and critical thinking skills; apply communication, feedback, and conflict resolution skills. *Fall*.

**MSL 2102C**    **ECS-AROTC**    **2(1,1)**  
**Leadership and Teamwork:** Focuses on self-development guided by knowledge of self and group processes; challenges current beliefs, knowledge and skills. *Spring*.

**MSL 3201C**    **ECS-AROTC**    **4(3,1)**  
**Leadership and Problem Solving:** PR: Junior standing. Examines skills that underlie effective problem solving; analyzes military missions and plan military operations; and executes squad battle drills. *Fall*.

**MSL 3202C**    **ECS-AROTC**    **4(3,1)**  
**Leadership and Ethics:** PR: MSL 3201C. Probes leadership responsibilities that foster an ethical command climate; develops cadet leadership competencies; applies principles and techniques of effective written and oral communication. *Spring*.

**MSL 4301C**    **ECS-AROTC**    **4(3,1)**  
**Leadership and Management:** PR: MSL 3202C. Discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, apply leadership and problem solving principles to a complex case study/simulation. *Fall*.

**MSL 4302C**    **ECS-AROTC**    **4(3,1)**  
**Officership:** PR: MSL 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. *Spring*.

**MTG 4212**    **COS-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. *Fall*.

**MTG 4302**    **COS-MATH**    **3(3,0)**  
**Introduction to Topology:** PR: MHF 3302 and MAS 3106 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness. *Spring*.

**MTG 5256**    **COS-MATH**    **3(3,0)**  
**Differential Geometry:** PR: MAA 4227, graduate status or senior standing, or C.I. Differentiable manifolds, tangent space and tangent bundle, flows and vector fields, Lie derivatives, cotangent space and cotangent bundles, Riemann metrics, connections and geodesics, applications in classical mechanics. *Occasional*.

**MUC 1101C**    **CAH-MUSIC**    **2(1,1)**  
**Composition I:** PR: Open to qualified majors and non-music majors with C.I. Creative work in small forms. May be repeated for credit. *Fall, Spring*.

**MUC 2104C**    **CAH-MUSIC**    **2(1,1)**  
**Composition II:** PR: MUC 1101C and Music or composition major. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit. *Fall, Spring*.

**MUC 3105C**    **CAH-MUSIC**    **2(1,1)**  
**Composition III:** PR: MUC 1101C and MUC 2104C. Continuation of Composition II. Competence determined by faculty jury. *Fall, Spring*.

**MUC 3311**    **CAH-MUSIC**    **3(2,2)**  
**MIDI Sequencing I:** PR: Keyboard ability and reading music or C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing software to create music. *Fall, Spring*. M&S fee: \$15.83

**MUC 4106C**    **CAH-MUSIC**    **2(1,1)**  
**Composition IV:** PR: MUC 1101C, MUC 2104C, MUC 3105C. Continuation of Composition III. Competence determined by faculty jury. *Fall, Spring*.

**MUC 4313**    **CAH-MUSIC**    **3(3,0)**  
**MIDI Sequencing III:** PR: MUC 4441, Junior standing or C.I. Technical aspects of MIDI usage, including MIDI specification, sysEx, and MIDI machine control. *Occasional*.

**MUC 4441**    **CAH-MUSIC**    **3(3,0)**  
**MIDI Sequencing II:** PR: MUC 3311, Junior standing, and C.I. Continuation of sequencing, sampling, and inactive digital music technology. *Spring*. M&S fee: \$15.83

**MUC 4611C**    **CAH-MUSIC**    **3(2,1)**  
**Computer Animation and Digital Music:** PR: MUC 4441 or FIL 3286C and C.I. Music students and computer animation students work collaboratively to produce animation projects with original musical scores and sound effects. *Occasional*.

**MUC 4612C**    **CAH-MUSIC**    **3(2,2)**  
**Film/Video Composition:** PR: MUC 1101C, MUC 2104C, MUC 3311, MUC 4441. Music composition for film, video, computer games. *Occasional*.

**MUE 1291**    **CAH-MUSIC**    **1(0,1)**  
**Classroom Instruments:** Instruction in recorder and guitar, as it applies to classroom usage for music educators. *Odd Fall*.

**MUE 2040**    **CAH-MUSIC**    **2(2,0)**  
**Introduction to Music Education:** PR: None. An introduction to music education covering philosophy, history, and current practice and trends. Observation in schools required. *Fall*.

**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. *Occasional*.

**MUE 2440**    **CAH-MUSIC**    **1(0,2)**  
**String Techniques:** PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical techniques. *Spring*.

**MUE 2450**    **CAH-MUSIC**    **1(1,0)**  
**Woodwind Techniques I:** PR: MUED major, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques. *Fall*.

**MUE 2460**    **CAH-MUSIC**    **1(0,2)**  
**Brass Techniques:** PR: MUED major, junior standing or C.I. Class instruction in brass playing and pedagogical techniques. May be repeated for credit. *Fall*.

**MUE 2470**    **CAH-MUSIC**    **1(0,2)**  
**Percussion Techniques:** PR: MUED major, junior standing or C.I. Class instruction in percussion playing and pedagogical techniques. May be repeated for credit. *Spring*. M&S fee: \$35.00

# UCF Courses and Descriptions

<b>MUE 3210</b>	<b>ED-TLP</b>	<b>3(2,1)</b>	<b>MUG 3302</b>	<b>CAH-MUSIC</b>	<b>Variable</b>	<b>MUL 2017</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>
<b>Music in the Elementary School:</b> Fundamental procedures for teaching elementary school music, stressing appropriate music materials and activities for different age groups; selected experience in music. <i>Fall, Spring.</i>			<b>Instrumental Conducting and Materials:</b> PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials. <i>Spring.</i>			<b>Survey of Rock Music:</b> Rise of rock music to prominence, and its impact on audience reception. No musical background required. <i>Fall, Spring.</i>		
<b>MUE 3451</b>	<b>CAH-MUSIC</b>	<b>1(1,0)</b>	<b>MUG 4103C</b>	<b>CAH-MUSIC</b>	<b>2(1,1)</b>	<b>MUL 2720</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>
<b>Woodwind Techniques II:</b> PR: MUE 2450, MUED major, Junior standing or C.I. Continuation of Woodwind Techniques I, with emphasis on double reeds. <i>Occasional.</i>			<b>Advanced Conducting:</b> 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. <i>Occasional.</i>			<b>Music of the World:</b> Music in cross-cultural context. Relation of music to religion and society. <i>Fall, Spring.</i>		
<b>MUE 4311</b>	<b>ED-TLP</b>	<b>2(2,0)</b>	<b>MUH 2019</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>	<b>MUL 3381</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>
<b>Elementary School Music Methods:</b> PR: Junior standing, MUED major. Organization and administration of instruction for comprehensive music education, K-6; instructional planning, techniques, and materials for elementary music education. <i>Fall.</i>			<b>American Popular Music, 1840s-present:</b> Musical and cultural development of popular music in the United States from the 1840s to the present. <i>Fall, Spring.</i>			<b>Contemporary Popular Music:</b> PR: MUL 2010 or MUT 1112 or C.I. History and analysis of selected genres in recent popular music. Music reading not required. <i>Spring.</i>		
<b>MUE 4330</b>	<b>ED-TLP</b>	<b>2(2,0)</b>	<b>MUH 2071C</b>	<b>CAH-MUSIC</b>	<b>1(0,1)</b>	<b>MUL 3400</b>	<b>CAH-MUSIC</b>	<b>2(1,1)</b>
<b>Secondary School Music Methods:</b> PR: MUE 4311 or C.I. Instructional planning, techniques and materials in middle school, junior high and senior high classrooms; consideration of general music education program, evaluation materials and procedures. <i>Spring.</i>			<b>World Music Survey and Performance Laboratory:</b> PR: MUT 1112 or C.I. An introduction to different musical cultures including West African, Caribbean, South American, and Asian. <i>Occasional.</i>			<b>Piano Literature I:</b> 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. <i>Odd Fall.</i>		
<b>MUE 4350</b>	<b>ED-TLP</b>	<b>2-3(2-3,0)</b>	<b>MUH 3361</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>	<b>MUL 3401</b>	<b>CAH-MUSIC</b>	<b>2(1,1)</b>
<b>General Music Pre-K through Grade 8:</b> PR: Consent of instructor. Designed for music educators. Exploration of music materials and teaching strategies for enhancing students' learning through music. Experience with recorder, movement, choral, conducting, and curriculum infusion included. Implementation project available. May be repeated for credit. Graded S/U. <i>Occasional.</i>			<b>Music of the 19th Century:</b> PR: MUH 4211 and MUH 4212 with grades of "C," 2.0, or higher in each. Western European art music from the era of C. 1790-1914. <i>Odd Fall.</i>			<b>Piano Literature II:</b> PR: MUL 3400. Continuation of MUL 3400. <i>Even Spring.</i>		
<b>MUE 4354</b>	<b>ED-TLP</b>	<b>3(3,0)</b>	<b>MUH 3622</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>	<b>MUL 3432</b>	<b>CAH-MUSIC</b>	<b>2(2,0)</b>
<b>General Music: ORFF Level I:</b> PR: Junior Standing or C.I. ORFF SCHULWERK methods of music education for pre-K - grade 8. Development of personal and pedagogical skills in singing, moving, playing Orff instruments, recorder and compositions. <i>Occasional.</i>			<b>Music and Ritual in East Asian Religions:</b> PR: ENC 1102 and one of the following: REL 2300, HUM 2210, 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. <i>Occasional.</i>			<b>String Literature:</b> PR: Music major and C.I. Survey of string solo/chamber music literature from the 16th century to the present. <i>Odd Fall.</i>		
<b>MUE 4480C</b>	<b>CAH-MUSIC</b>	<b>1(1,1)</b>	<b>MUH 4211</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>	<b>MUL 3441</b>	<b>CAH-MUSIC</b>	<b>2(2,0)</b>
<b>Marching Band Techniques:</b> PR: MUT 1112 and C.I. Principles of organizing and training marching bands: Planning, charting football shows, rehearsal problems. Guided observations. May be repeated for credit. <i>Fall.</i>			<b>History and Literature I:</b> PR: MUT 1112. In-depth study of the development of Western musical styles from antiquity to present. <i>Fall.</i>			<b>Woodwind Literature:</b> PR: Junior standing, C.I., Music major. Survey of woodwind literature from the 16th century to the present. <i>Even Fall.</i>		
<b>MUE 4481</b>	<b>CAH-MUSIC</b>	<b>1(1,0)</b>	<b>MUH 4212</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>	<b>MUL 3442</b>	<b>CAH-MUSIC</b>	<b>2(2,0)</b>
<b>Jazz Pedagogy:</b> PR: Music major, MUT 1112 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level. <i>Occasional.</i>			<b>History and Literature II:</b> PR: MUH 4211. Continuation of MUH 4211. <i>Spring.</i>			<b>Brass Literature:</b> PR: Music major (Brass), Junior standing, C.I. Survey of brass solo/ensemble literature from 16th century to present. <i>Even Fall.</i>		
<b>MUE 4963</b>	<b>CAH-MUSIC</b>	<b>0(1,0)</b>	<b>MUH 4218</b>	<b>CAH-MUSIC</b>	<b>1(1,0)</b>	<b>MUL 3463</b>	<b>CAH-MUSIC</b>	<b>2(2,0)</b>
<b>Music Education Pre-Professional Interview:</b> PR: Internship I. Demonstration of comprehensive music education skills and knowledge. Graded S/U. May be repeated one time. <i>Occasional.</i>			<b>Review of Music History:</b> PR: C.I. A review of music history from Ancient Greece to the present. <i>Occasional.</i>			<b>Percussion Literature:</b> PR: Music major (Percussion), Junior standing, C.I. Survey of music written for percussion instruments. <i>Odd Fall.</i>		
<b>MUE 5348C</b>	<b>ED-TLP</b>	<b>4(4,0)</b>	<b>MUH 4963</b>	<b>CAH-MUSIC</b>	<b>0(1,0)</b>	<b>MUL 3603</b>	<b>CAH-MUSIC</b>	<b>1(1,1)</b>
<b>K-12 Music Methods:</b> PR: Graduate standing in Music Education or C.I. Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for general, choral, and instrumental music education. <i>Spring.</i>			<b>Music History Proficiency Exam:</b> PR: MUH 4212. A comprehensive examination in music history. Required of music majors. May be repeated one time. Graded S/U. <i>Occasional.</i>			<b>American/English Song Literature:</b> PR: C.I. Survey of songs written by American or English composers. <i>Even Spring.</i>		
<b>MUG 3104</b>	<b>CAH-MUSIC</b>	<b>2(1,1)</b>	<b>MUH 5345</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>	<b>MUL 3604</b>	<b>CAH-MUSIC</b>	<b>1(1,1)</b>
<b>Basic Conducting:</b> Fundamental techniques and practice in conducting. <i>Fall.</i>			<b>Music of the Baroque:</b> PR: Graduate standing in music or music education or C.I. Baroque music, 1600-1750. Investigates Baroque musical styles and composers within their diverse historical, musical, and cultural contexts. <i>Even Spring.</i>			<b>German Song Literature:</b> PR: Music major or C.I. Survey of German song literature. <i>Odd Spring.</i>		
<b>MUG 3202</b>	<b>CAH-MUSIC</b>	<b>Variable</b>	<b>MUL 2010</b>	<b>CAH-MUSIC</b>	<b>3(2,1)</b>	<b>MUL 3605</b>	<b>CAH-MUSIC</b>	<b>1(1,1)</b>
<b>Choral Conducting and Materials:</b> PR: MUG 3104. Fundamental principles of choral conducting and rehearsal techniques including an examination of materials. <i>Even Spring.</i>			<b>Enjoyment of Music:</b> PR: Non-music majors only. Designed to develop an understanding of musical principles and techniques for listening to music. <i>Fall, Spring.</i>			<b>French Song Literature:</b> PR: Music major or C.I. Survey of French song literature. <i>Odd Fall.</i>		
			<b>MUL 2016</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>	<b>MUM 5806</b>	<b>CAH-MUSIC</b>	<b>3(3,0)</b>
			<b>Evolution of Jazz:</b> Survey of jazz literature and performance. <i>Fall, Spring.</i>			<b>Performing Arts Management:</b> PR: Graduate status or senior standing or C.I. Structure of nonprofit performing arts organization (PAOs), examining the fundamental elements of administration, audience development, marketing, and fund-raising. <i>Spring.</i>		
			<b>MUN 2023</b>	<b>CAH-MUSIC</b>	<b>1(0,2)</b>	<b>MUN 2442</b>	<b>CAH-MUSIC</b>	<b>1(1,0)</b>
			<b>Synthesizer Ensemble:</b> PR: C.I. and keyboard ability. Rehearsal and performance of music for synthesizers. May be repeated for credit. <i>Occasional.</i>			<b>Percussion/Mallet Ensemble:</b> PR: C.I. Preparation and performance of music for percussion with mallets. May be repeated for credit. <i>Fall.</i>		

## UCF Courses and Descriptions

MUN 3113	CAH-MUSIC	2(0,8)	MUN 3713	CAH-MUSIC	1(0,4)	MUS 4330	CAH-MUSIC	2(1,1)
<b>Marching Band:</b> PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit. <i>Fall, M&amp;S fee: \$36.54</i>			<b>Jazz Lab:</b> PR: C.I. Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$8.00</i>			<b>Recording Techniques for Classical Music:</b> PR: MUL 2010 or C.I. Concert hall recording techniques for classical music. <i>Occasional.</i>		
MUN 3123	CAH-MUSIC	1(0,3)	MUN 3714	CAH-MUSIC	1(0,2)	MUS 4347C	CAH-MUSIC	3(2,2)
<b>Concert Band:</b> Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$10.00</i>			<b>Jazz Combo:</b> PR: Junior standing and C.I. Rehearsal and performance of music for small jazz combo, emphasizing improvisation. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Digital Notation:</b> PR: MUC 3311. Work on projects utilizing computer notational software applications. <i>Spring, M&amp;S fee: \$15.83</i>		
MUN 3143	CAH-MUSIC	1(0,4)	MUN 3717	CAH-MUSIC	1(0,3)	MUS 4401	CAH-MUSIC	2(1,1)
<b>Wind Ensemble:</b> Open to all students by audition. Study and performance of music for wind ensemble and band. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$10.00</i>			<b>Jazz/Pop Ensemble:</b> PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Occasional.</i>			<b>Studio Teaching:</b> 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. <i>Occasional.</i>		
MUN 3283	CAH-MUSIC	1(0,5)	MUN 3723	CAH-MUSIC	1(0,3)	MUS 4543C	CAH-MUSIC	5(3,2)
<b>Symphony Orchestra:</b> PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Vocal-Jazz Ensemble:</b> PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Occasional.</i>			<b>Digital Music Project:</b> PR: MUC 3311 and MUC 4441, or C.I. Individual work on media related audio projects with emphasis on artistic/technical skills. <i>Occasional.</i>		
MUN 3313	CAH-MUSIC	1(3,0)	MUN 3813	CAH-MUSIC	1(1,1)	MUS 4635C	CAH-MUSIC	3(2,2)
<b>University Choir:</b> PR: C.I. Open to all students by audition. Study and performance of large ensemble music. Possible tours. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Steel Drum Ensemble:</b> PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Sound Design:</b> PR: MUC 3311, MUC 4441. Audio storage processing/compression for digital media. <i>Occasional.</i>		
MUN 3323	CAH-MUSIC	1(0,3)	MUN 4476	CAH-MUSIC	1(0,2)	MUS 4645C	CAH-MUSIC	3(2,2)
<b>Women's Chorus:</b> PR: Audition and C.I. Study and performance of music for women's voices. Open to all students. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Early Music Ensemble:</b> PR: C.I. Study and performance of pre-classical music. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Music Post Production Techniques:</b> PR: MUC 3311, MUC 4441, MUC 4612C, MUS 4635C. 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. <i>Occasional.</i>		
MUN 3343	CAH-MUSIC	1(0,3)	MUO 2501C	CAH-MUSIC	2(1,1)	MUS 4905	CAH-MUSIC	1-4(1-4)
<b>Madrigal Singers:</b> PR: C.I. Open to all students by audition. Extra rehearsals and Madrigal Dinners required. Tours. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Opera Skills:</b> PR: Open to all students by audition. Integration of singing, acting, and movement in opera; explores basic stage movement, character preparation, and performance of opera arias. <i>Fall.</i>			<b>Directed Experience:</b> PR: C.I. and Junior standing. Special topics of study and/or research as determined by student/faculty consultation. May be repeated for credit. <i>Occasional.</i>		
MUN 3423	CAH-MUSIC	1(0,2)	MUO 3503	CAH-MUSIC	1(0,3)	MUS 4954	CAH-MUSIC	0(1,0)
<b>Woodwind Ensemble:</b> PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Opera Workshop:</b> PR: MUO 2501C, or C.I., and audition. Study, preparation, and performance of opera literature. May be repeated for credit. 7 times. <i>Occasional.</i>			<b>Recital Performance II:</b> PR: Senior level applied music and C.I. Public recital of 45 minutes to demonstrate performance skills. Graded S/U. May repeat one time. <i>Fall, Spring.</i>		
MUN 3430	CAH-MUSIC	1(1,0)	MUS 1010	CAH-MUSIC	0(9,2)	MUS 5365	CAH-MUSIC	3(3,0)
<b>Trumpet Ensemble:</b> PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit. <i>Occasional, M&amp;S fee: \$5.00</i>			<b>Music Forum:</b> A series of special musical events required of music majors. Includes lectures and recitals by faculty, students, and guest artists. Graded S/U. May be repeated for credit. <i>Fall, Spring.</i>			<b>Music and Technology:</b> 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. <i>Occasional.</i>		
MUN 3433	CAH-MUSIC	1(0,2)	MUS 1201	CAH-MUSIC	1(1,0)	MUT 1002	CAH-MUSIC	3(3,0)
<b>Brass Ensemble:</b> PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>European Diction:</b> A survey of French, German and Italian diction for music educators. <i>Even Fall.</i>			<b>Fundamentals of Music II:</b> PR: MUT 1004. Theory and sight singing skills. <i>Occasional.</i>		
MUN 3443	CAH-MUSIC	1(0,2)	MUS 1952C	CAH-MUSIC	3(3,0)	MUT 1004	CAH-MUSIC	3(3,0)
<b>Percussion Ensemble:</b> PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$35.00</i>			<b>Study Abroad: Irish Music:</b> PR: C.I. The history, genres, forms, instruments, and performance of Irish music taught in the native environment. Graded S/U. <i>Occasional.</i>			<b>Fundamentals of Music I:</b> Basic music theory and reading music at the keyboard. <i>Fall.</i>		
MUN 3444	CAH-MUSIC	1(1,0)	MUS 2360C	CAH-MUSIC	3(2,2)	MUT 1111	CAH-MUSIC	2(2,1)
<b>Mallet Ensemble:</b> PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit. <i>Fall, Odd Spring, M&amp;S fee: \$35.00</i>			<b>Introduction to Music Technology:</b> PR: Music or Digital Media major or C.I. Utilization of computers and keyboards to acquire skills in MIDI sequencing, notation, CDs, and the Internet. <i>Fall, Spring, M&amp;S fee: \$15.83</i>			<b>Music Theory IA:</b> CR: MUT 1241. Writing, performance, analysis of and music of various stylistic periods. <i>Fall, Spring.</i>		
MUN 3453	CAH-MUSIC	1(0,3)	MUS 3953	CAH-MUSIC	0(1,0)	MUT 1112	CAH-MUSIC	2(2,1)
<b>Piano Ensemble:</b> PR: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring.</i>			<b>Recital Performance I:</b> PR: Junior Level Applied Music and C. I. Public recital of 30 minutes to demonstrate performance skills. Graded S/U. May repeat one time. <i>Fall, Spring.</i>			<b>Music Theory IB:</b> PR: MUT 1111, CR: MUT 1242. Continuation of MUT 1111. <i>Spring.</i>		
MUN 3483	CAH-MUSIC	1(0,2)	MUS 4293	CAH-MUSIC	1(1,0)	MUT 1241	CAH-MUSIC	1(0,2)
<b>String Ensemble:</b> PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring, M&amp;S fee: \$5.00</i>			<b>Music Theatre Ensemble:</b> 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. <i>Occasional.</i>			<b>Ear Training and Sight Singing IA:</b> Aural and visual/oral comprehension of elements of music - rhythm, melody, harmony, form. Intended to be taken with MUT 1111. <i>Fall, Spring.</i>		

## UCF Courses and Descriptions

MUT 1242	CAH-MUSIC	1(0,2)	MUT 3642	CAH-MUSIC	2(0,2)	MVB 2422	CAH-MUSIC	2(1,1)
Ear Training and Sight Singing IB: PR: MUT 1241. Continuation of MUT 1241. Intended to be taken with MUT 1112. <i>Spring</i> .			Jazz Improvization II: PR: MUT 3641 Junior standing or C.I. A continuation of Jass Improvization I. <i>Even Spring</i> .			French Horn II: PR: MVB 1412 and competence determined by faculty jury. Continuation of MVB 1412. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 2116	CAH-MUSIC	2(2,1)	MUT 4031	CAH-MUSIC	1(1,0)	MVB 2423	CAH-MUSIC	2(1,1)
Music Theory IIA: PR: MUT 1112, CR: MUT 2246. Continuation of MUT 1111-1112: writing, performance, and analysis of music of various stylistic periods. <i>Fall</i> .			Review of Music Theory: PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit. <i>Occasional</i> .			Trombone II: PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 2117	CAH-MUSIC	2(2,1)	MUT 4344	CAH-MUSIC	1(1,0)	MVB 2424	CAH-MUSIC	2(1,1)
Music Theory IIB: PR: MUT 2116, CR: 2247. Continuation of MUT 2116. <i>Spring</i> .			Seminar in Music Arranging: Scoring for choral and instrumental ensembles. <i>Occasional</i> .			Baritone II: PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 2246	CAH-MUSIC	1(0,2)	MUT 5381	CAH-MUSIC	3(3,0)	MVB 2425	CAH-MUSIC	2(1,1)
Ear Training and Sight Singing IIA: PR: MUT 1242. Continuation of MUT 1242. Intended to be taken with MUT 2116. <i>Fall</i> .			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. <i>Even Fall</i> .			Tuba II: PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 2247	CAH-MUSIC	1(0,2)	MVB 1211	CAH-MUSIC	1(0,1)	MVB 3431	CAH-MUSIC	2(1,1)
Ear Training and Sight Singing IIB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117. <i>Spring</i> .			Secondary Trumpet: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trumpet. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring</i> .			Trumpet III: PR: MVB 2421 and competence determined by faculty jury. Continuation of MVB 2421. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 2960	CAH-MUSIC	0(1,0)	MVB 1212	CAH-MUSIC	1(0,1)	MVB 3432	CAH-MUSIC	2(1,1)
Ear-Training Proficiency Exam: PR: MUT 2247. Demonstration of basic skills in ear-training. Required of Music majors. May repeat one time. Graded S/U. <i>Occasional</i> .			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. <i>Fall, Spring</i> .			French Horn III: PR: MVB 2422 and competence determined by faculty jury. Continuation of MVB 2422. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 2961	CAH-MUSIC	0(1,0)	MVB 1213	CAH-MUSIC	1(0,1)	MVB 3433	CAH-MUSIC	2(1,1)
Sight-Singing Proficiency Exam: PR: MUT 2247. Basic skills in sight-singing. Required of Music majors. May repeat one time. Graded S/U. <i>Occasional</i> .			Secondary Trombone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring</i> .			Trombone III: PR: MVB 2423 and competence determined by faculty jury. Continuation of MVB 2423. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 2962	CAH-MUSIC	0(1,0)	MVB 1214	CAH-MUSIC	1(0,1)	MVB 3434	CAH-MUSIC	2(1,1)
Music Theory Proficiency Exam: PR: MUT 2117. Demonstration of basic skills in part-writing, visual analysis, counterpoint, instrumentation and form. Required for Music majors. May repeat one time. Graded S/U. <i>Occasional</i> .			Secondary Baritone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in baritone. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring</i> .			Baritone III: PR: MVB 2424 and competence determined by faculty jury. Continuation of MVB 2424. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 3170	CAH-MUSIC	2(1,1)	MVB 1215	CAH-MUSIC	1(0,1)	MVB 3435	CAH-MUSIC	2(1,1)
Jazz Theory I: PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242. Examine traditional harmony, melody, and rhythm. <i>Even Fall</i> .			Secondary Tuba: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring</i> .			Tuba III: PR: MVB 2425 and competence determined by faculty jury. Continuation of MVB 2425. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 3171	CAH-MUSIC	2(1,1)	MVB 1411	CAH-MUSIC	2(1,1)	MVB 4441	CAH-MUSIC	2(1,1)
Jazz Theory II: PR: MUT 3170. Continuation of Jazz Theory I: examining jazz harmony, melody, and rhythm. <i>Odd Spring</i> .			Trumpet I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring</i> .			Trumpet IV: PR: MVB 3431 and competence determined by faculty jury. Continuation of MVB 3431. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 3401	CAH-MUSIC	3(3,0)	MVB 1412	CAH-MUSIC	2(1,1)	MVB 4442	CAH-MUSIC	2(1,1)
Counterpoint: PR: MUT 2117. Discuss, analyze, and write counterpoint exercises. 18th, 19th, and 20th scores will be examined. <i>Even Spring</i> .			French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring</i> .			French Horn IV: PR: MVB 3432 and competence determined by faculty jury. Continuation of MVB 3432. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 3571	CAH-MUSIC	3(3,0)	MVB 1413	CAH-MUSIC	2(1,1)	MVB 4443	CAH-MUSIC	2(1,1)
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. <i>Fall</i> .			Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring</i> .			Trombone IV: PR: MVB 3433 and competence determined by faculty jury. Continuation of MVB 3433. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 3622	CAH-MUSIC	3(3,0)	MVB 1414	CAH-MUSIC	2(1,1)	MVB 4444	CAH-MUSIC	2(1,1)
Analytical Approaches to Musical Rhythm: PR: MUT 2117 or equivalent or C.I. Contemporary, cognitive, hyper-metric, and projective approaches to musical rhythm, rhythm in dance, performance, and non-Western music. <i>Occasional</i> .			Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring</i> .			Baritone IV: PR: MVB 3434 and competence determined by faculty jury. Continuation of MVB 3434. May be repeated for credit. <i>Fall, Spring</i> .		
MUT 3641	CAH-MUSIC	2(0,2)	MVB 1415	CAH-MUSIC	2(1,1)	MVB 4445	CAH-MUSIC	2(1,1)
Jazz Improvisation I: PR: MUT 3171, Junior standing or C.I. Jazz improvisation with an emphasis on listening, harmony, arranging, and jazz forms. Melodic and harmonic dictation at the keyboard. <i>Odd Fall</i> .			Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Even Fall, Spring</i> .			Tuba IV: PR: MVB 3435 and competence determined by faculty jury. Continuation of MVB 3435. May be repeated for credit. <i>Fall, Spring</i> .		
			MVB 2421	CAH-MUSIC	2(1,1)	MVB 4640	CAH-MUSIC	2(2,0)
			Trumpet II: PR: MVB 1411 and competence determined by faculty jury. Continuation of MVB 1411. May be repeated for credit. <i>Fall, Spring</i> .			Brass Pedagogy: PR: Music major and C.I. Methods and materials for teaching instruments in a small group or studio setting. <i>Odd Spring</i> .		



## UCF Courses and Descriptions

MVB 5451	CAH-MUSIC	2(1,0)	MVK 3431	CAH-MUSIC	2(1,1)	MVP 2421	CAH-MUSIC	2(1,1)
<b>Trumpet V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			<b>Piano III:</b> PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit. <i>Fall, Spring.</i>			<b>Percussion II:</b> PR: MVP 1411 and competence determined by faculty jury. Continuation of MVP 1411. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00		
MVB 5452	CAH-MUSIC	2(1,0)	MVK 3433	CAH-MUSIC	2(1,1)	MVP 3431	CAH-MUSIC	2(1,1)
<b>French Horn V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			<b>Organ III:</b> PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit. <i>Occasional.</i>			<b>Percussion III:</b> PR: MVP 2421 and competence determined by faculty jury. Continuation of MVP 2421. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00		
MVB 5453	CAH-MUSIC	2(1,0)	MVK 4141	CAH-MUSIC	1(0,2)	MVP 3630	CAH-MUSIC	2(2,0)
<b>Trombone V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			<b>Class Piano IV:</b> PR: MVK 1131 or C.I. Continuation of MVK 1131. <i>Fall, Spring.</i>			<b>Percussion Pedagogy:</b> PR: Music major, C.I. Teaching methods and materials for percussion students and groups. <i>Fall, Spring.</i>		
MVB 5454	CAH-MUSIC	2(1,0)	MVK 4441	CAH-MUSIC	2(1,1)	MVP 4441	CAH-MUSIC	2(1,1)
<b>Baritone V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			<b>Piano IV:</b> PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit. <i>Fall, Spring.</i>			<b>Percussion IV:</b> PR: MVP 3431 and competence determined by faculty jury. Continuation of MVP 3431. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00		
MVB 5455	CAH-MUSIC	2(1,0)	MVK 4443	CAH-MUSIC	2(1,1)	MVP 5451	CAH-MUSIC	2(1,0)
<b>Tuba V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			<b>Organ IV:</b> PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit. <i>Occasional.</i>			<b>Percussion V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 1111	CAH-MUSIC	1(0,2)	MVK 4640	CAH-MUSIC	1(1,0)	MVS 1211	CAH-MUSIC	1(0,1)
<b>Class Piano I:</b> Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano. <i>Fall, Spring.</i>			<b>Piano Pedagogy I:</b> 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. <i>Even Fall.</i>			<b>Secondary Violin:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in violin. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 1211	CAH-MUSIC	1(0,1)	MVK 4641	CAH-MUSIC	1(1,0)	MVS 1212	CAH-MUSIC	1(0,1)
<b>Secondary Piano:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in piano. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>			<b>Piano Pedagogy II:</b> PR: C.I. Continuation of MVK 4640. Emphasis on intermediate through advanced levels. May be repeated for credit. <i>Odd Spring.</i>			<b>Secondary Viola:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in viola. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 1213	CAH-MUSIC	1(1,1)	MVK 4960	CAH-MUSIC	0(1,0)	MVS 1213	CAH-MUSIC	1(0,1)
<b>Secondary Organ:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in organ. Intended for non-music majors. May be repeated for credit. <i>Occasional.</i>			<b>Piano Proficiency Exam:</b> PR: C.I. Demonstration of piano skills in basic repertoire, sight-reading, harmonization and transposition. Required of Music majors. May repeat one time. Graded S/U. <i>Fall, Spring.</i>			<b>Secondary Cello:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in cello. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 1411	CAH-MUSIC	2(1,1)	MVK 5451	CAH-MUSIC	2(1,0)	MVS 1214	CAH-MUSIC	1(0,1)
<b>Piano I:</b> PR: Major in music or consent of chairperson; audition. May be repeated for credit. <i>Fall, Spring.</i>			<b>Piano V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			<b>Secondary Bass:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in bass. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 1413	CAH-MUSIC	2(1,1)	MVK 5453	CAH-MUSIC	2(1,0)	MVS 1216	CAH-MUSIC	1(0,1)
<b>Organ I:</b> PR: Major in music or consent of chairperson; audition. May be repeated for credit. <i>Occasional.</i>			<b>Organ V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Occasional.</i>			<b>Secondary Guitar:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in guitar. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 1800	CAH-MUSIC	2(2,0)	MVO 1214	CAH-MUSIC	1(0,1)	MVS 1411	CAH-MUSIC	2(1,1)
<b>Keyboard Class I:</b> Keyboard training for non-Music students with no prior keyboard training. <i>Fall, Spring.</i>			<b>Secondary Recorder:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in recorder. Intended for non-music majors. May be repeated for credit. <i>Occasional.</i>			<b>Violin I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 1801	CAH-MUSIC	2(2,0)	MVK 5250	CAH-MUSIC	1(1,0)	MVS 1412	CAH-MUSIC	2(1,1)
<b>Keyboard Class II:</b> PR: MVK 1800. Continuation of Keyboard class I. <i>Occasional.</i>			<b>Advanced Secondary Instruction:</b> PR: Graduate status or senior standing, and C.I. Advanced instructional techniques on a secondary instrument or in voice. May be repeated for credit. <i>Occasional.</i>			<b>Viola I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 2121	CAH-MUSIC	1(0,2)	MVP 1211	CAH-MUSIC	1(0,1)	MVS 1413	CAH-MUSIC	2(1,1)
<b>Class Piano II:</b> PR: MVK 1111 or C.I. Continuation of MVK 1111. Not open to music majors whose major performing medium is piano. <i>Fall, Spring.</i>			<b>Secondary Percussion:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in percussion. Intended for non-music majors. May be repeated for credit. <i>Occasional.</i> M&S fee: \$35.00			<b>Cello I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 2421	CAH-MUSIC	2(1,1)	MVP 1411	CAH-MUSIC	2(1,1)	MVS 1414	CAH-MUSIC	2(1,1)
<b>Piano II:</b> PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit. <i>Fall, Spring.</i>			<b>Percussion I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00			<b>Bass I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 2423	CAH-MUSIC	2(1,1)				MVS 1415	CAH-MUSIC	2(1,1)
<b>Organ II:</b> PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit. <i>Occasional.</i>						<b>Harp I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>		
MVK 3131	CAH-MUSIC	1(0,2)						
<b>Class Piano III:</b> PR: MVK 1121 or C.I. Continuation of MVK 1121. <i>Fall, Spring.</i>								

## UCF Courses and Descriptions

<b>MVS 1416</b> CAH-MUSIC 2(1,1) <b>Guitar I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 4443</b> CAH-MUSIC 2(1,1) <b>Cello IV:</b> PR: MVS 3433 and competence determined by faculty jury. Continuation of MVS 3433. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 2421</b> CAH-MUSIC 2(1,1) <b>Voice II:</b> PR: MVV 1411 and competence determined by faculty jury. Continuation of MVV 1411. Major in music or consent of chair; audition. Private and class lessons. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 2421</b> CAH-MUSIC 2(1,1) <b>Violin II:</b> PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 4444</b> CAH-MUSIC 2(1,1) <b>Bass IV:</b> PR: MVS 3434 and competence determined by faculty jury. Continuation of MVS 3434. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 3431</b> CAH-MUSIC 2(1,1) <b>Voice III:</b> PR: MVV 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 2422</b> CAH-MUSIC 2(1,1) <b>Viola II:</b> PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 4445</b> CAH-MUSIC 2(1,1) <b>Harp IV:</b> PR: MVS 3435 and competence determined by faculty jury. Continuation of MVS 3435. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 4441</b> CAH-MUSIC 2(1,1) <b>Voice IV:</b> PR: MVV 3431 and competence determined by faculty jury. Continuation of MVV 3431. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 2423</b> CAH-MUSIC 2(1,1) <b>Cello II:</b> PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 4446</b> CAH-MUSIC 2(1,1) <b>Guitar IV:</b> PR: MVS 3436 and competence determined by faculty jury. Continuation of MVS 3436. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 4640</b> CAH-MUSIC 1(1,0) <b>Voice Pedagogy I:</b> PR: C.I. Methods, materials for vocalists; teachers, conductors; voice production; diagnosis of problems and correction; demonstration and observation of teaching; beginning to intermediate levels. May be repeated for credit. <i>Even Fall.</i>
<b>MVS 2424</b> CAH-MUSIC 2(1,1) <b>Bass II:</b> PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 4640</b> CAH-MUSIC 2(2,0) <b>String Pedagogy:</b> PR: Music major and C.I. Methods and materials for teaching string instruments in a small group or studio setting. <i>Even Spring.</i>	<b>MVV 4641</b> CAH-MUSIC 1(1,0) <b>Voice Pedagogy II:</b> PR: C.I. Continuation of MVV 4640. Intermediate to advanced levels. May be repeated for credit. <i>Odd Spring.</i>
<b>MVS 2425</b> CAH-MUSIC 2(1,1) <b>Harp II:</b> PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 5451</b> CAH-MUSIC 2(1,0) <b>Violin V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 5451</b> CAH-MUSIC 2(1,0) <b>Voice V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 2426</b> CAH-MUSIC 2(1,1) <b>Guitar II:</b> PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 5452</b> CAH-MUSIC 2(1,0) <b>Viola V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1211</b> CAH-MUSIC 1(0,1) <b>Secondary Flute:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in flute. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 3431</b> CAH-MUSIC 2(1,1) <b>Violin III:</b> PR: MVS 2421 and competence determined by faculty jury. Continuation of MVS 2421. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 5453</b> CAH-MUSIC 2(1,0) <b>Cello V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1212</b> CAH-MUSIC 1(0,1) <b>Secondary Oboe:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in oboe. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 3432</b> CAH-MUSIC 2(1,1) <b>Viola III:</b> PR: MVS 2422 and competence determined by faculty jury. Continuation of MVS 2422. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 5454</b> CAH-MUSIC 2(1,0) <b>Bass V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1213</b> CAH-MUSIC 1(0,1) <b>Secondary Clarinet:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in clarinet. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 3433</b> CAH-MUSIC 2(1,1) <b>Cello III:</b> PR: MVS 2423 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 5455</b> CAH-MUSIC 2(1,0) <b>Harp V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1214</b> CAH-MUSIC 1(0,1) <b>Secondary Bassoon:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in bassoon. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 3434</b> CAH-MUSIC 2(1,1) <b>Bass III:</b> PR: MVS 2424 and competence determined by faculty jury. Continuation of MVS 2424. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVS 5456</b> CAH-MUSIC 2(1,0) <b>Guitar V:</b> PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1215</b> CAH-MUSIC 1(0,1) <b>Secondary Saxophone:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in saxophone. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 3435</b> CAH-MUSIC 2(1,1) <b>Harp III:</b> PR: MVS 2425 and competence determined by faculty jury. Continuation of MVS 2425. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1111</b> CAH-MUSIC 1(0,1) <b>Class Voice:</b> Class instruction in beginning voice. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1411</b> CAH-MUSIC 2(1,1) <b>Voice I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 3436</b> CAH-MUSIC 2(1,1) <b>Guitar III:</b> PR: MVS 2426 and competence determined by faculty jury. Continuation of MVS 2426. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 1873</b> CAH-MUSIC 1(0,1) <b>Secondary Voice:</b> PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>	<b>MVV 2322</b> CAH-MUSIC 1(1,0) <b>Singing Broadway:</b> 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 principles of the Italian "Bel Canto" school. May be repeated for credit. <i>Occasional.</i>
<b>MVS 4441</b> CAH-MUSIC 2(1,1) <b>Violin IV:</b> PR: MVS 3431 and competence determined by faculty jury. Continuation of MVS 3431. May be repeated for credit. <i>Fall, Spring.</i>		<b>MVV 1412</b> CAH-MUSIC 2(1,1) <b>Oboe I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>
<b>MVS 4442</b> CAH-MUSIC 2(1,1) <b>Viola IV:</b> PR: MVS 3432 and competence determined by faculty jury. Continuation of MVS 3432. May be repeated for credit. <i>Fall, Spring.</i>		<b>MVV 1413</b> CAH-MUSIC 2(1,1) <b>Clarinet I:</b> PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>

**MVW 1414 CAH-MUSIC 2(1,1)**  
**Bassoon I:** PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.* M&S fee: \$20.00

**MVW 1415 CAH-MUSIC 2(1,1)**  
**Saxophone I:** PR: Major in music or consent of chair; audition. May be repeated for credit. *Fall, Spring.*

**MVW 2421 CAH-MUSIC 2(1,1)**  
**Flute II:** PR: MVW 1411 and competence determined by faculty jury. Continuation of MVW 1411. May be repeated for credit. *Fall, Spring.*

**MVW 2422 CAH-MUSIC 2(1,1)**  
**Oboe II:** PR: MVW 1412 and competence determined by faculty jury. Continuation of MVW 1412. May be repeated for credit. *Fall, Spring.*

**MVW 2423 CAH-MUSIC 2(1,1)**  
**Clarinet II:** PR: MVW 1413 and competence determined by faculty jury. Continuation of MVW 1413. May be repeated for credit. *Fall, Spring.*

**MVW 2424 CAH-MUSIC 2(1,1)**  
**Bassoon II:** PR: MVW 1414 and competence determined by faculty jury. Continuation of MVW 1414. May be repeated for credit. *Fall, Spring.* M&S fee: \$20.00

**MVW 2425 CAH-MUSIC 2(1,1)**  
**Saxophone II:** PR: MVW 1415 and competence determined by faculty jury. Continuation of MVW 1415. May be repeated for credit. *Fall, Spring.*

**MVW 3431 CAH-MUSIC 2(1,1)**  
**Flute III:** PR: MVW 2421 and competence determined by faculty jury. Continuation of MVW 2421. May be repeated for credit. *Fall, Spring.*

**MVW 3432 CAH-MUSIC 2(1,1)**  
**Oboe III:** PR: MVW 2422 and competence determined by faculty jury. Continuation of MVW 2422. May be repeated for credit. *Fall, Spring.*

**MVW 3433 CAH-MUSIC 2(1,1)**  
**Clarinet III:** PR: MVW 2423 and competence determined by faculty jury. Continuation of MVW 2423. May be repeated for credit. *Fall, Spring.*

**MVW 3434 CAH-MUSIC 2(1,1)**  
**Bassoon III:** PR: MVW 2424 and competence determined by faculty jury. Continuation of MVW 2424. May be repeated for credit. *Fall, Spring.*

**MVW 3435 CAH-MUSIC 2(1,1)**  
**Saxophone III:** PR: MVW 2425 and competence determined by faculty jury. Continuation of MVW 2425. May be repeated for credit. *Fall, Spring.*

**MVW 3630 CAH-MUSIC 2(2,0)**  
**Woodwind Pedagogy:** PR: C.I. Methods, materials for teaching individuals and woodwind ensembles. *Even Fall.*

**MVW 4441 CAH-MUSIC 2(1,1)**  
**Flute IV:** PR: MVW 3431 and competence determined by faculty jury. Continuation of MVW 3431. May be repeated for credit. *Fall, Spring.*

**MVW 4442 CAH-MUSIC 2(1,1)**  
**Oboe IV:** PR: MVW 3432 and competence determined by faculty jury. Continuation of MVW 3432. May be repeated for credit. *Fall, Spring.*

**MVW 4443 CAH-MUSIC 2(1,1)**  
**Clarinet IV:** PR: MVW 3433 and competence determined by faculty jury. Continuation of MVW 3433. May be repeated for credit. *Fall, Spring.*

**MVW 4444 CAH-MUSIC 2(1,1)**  
**Bassoon IV:** PR: MVW 3434 and competence determined by faculty jury. Continuation of MVW 3434. May be repeated for credit. *Fall, Spring.*

**MVW 4445 CAH-MUSIC 2(1,1)**  
**Saxophone IV:** PR: MVW 3435 and competence determined by faculty jury. Continuation of MVW 3435. May be repeated for credit. *Fall, Spring.*

**MVW 5451 CAH-MUSIC 2(1,0)**  
**Flute V:** PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

**MVW 5452 CAH-MUSIC 2(1,0)**  
**Oboe V:** PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

**MVW 5453 CAH-MUSIC 2(1,0)**  
**Clarinet V:** PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

**MVW 5454 CAH-MUSIC 2(1,0)**  
**Bassoon V:** PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

**MVW 5455 CAH-MUSIC 2(1,0)**  
**Saxophone V:** PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

**NGR 5003 HPA-NURS 2(2,0)**  
**Advanced Health Assessment and Diagnostic Reasoning:** PR: or CR: NGR 5141; CR: NGR 5004L. Concepts and skills of advanced health assessment over the lifespan. Application of the diagnostic reasoning process through differential diagnoses. *Fall, Spring.*

**NGR 5004L HPA-NURS 1(0,1)**  
**Advanced Health Assessment and Diagnostic Reasoning (Lab):** PR: or CR: NGR 5141; CR: NGR 5003. Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan. Graded S/U. *Fall, Spring.* M&S fee: \$45.00

**NGR 5090 HPA-NURS 3(3,0)**  
**Urgent Care for the Advanced Practice Nurse:** PR: NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings. *Occasional.*

**NGR 5141 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. *Fall, Spring.*

**NGR 5195C HPA-NURS 3(2,1)**  
**International Perspectives of Global Health:** PR: Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation's health care systems. *Occasional.*

**NGR 5252 HPA-NURS 3(3,0)**  
**Psycho-Social Factors and Health Care Outcomes in the Elderly:** PR: Post-baccalaureate or graduate status or C.I. Interdisciplinary perspective to examine the relationship between client characteristics, client health care provider interactions and health care outcomes in the elderly. *Occasional.*

**NGR 5635 HPA-NURS 3(3,0)**  
**Transdisciplinary and Community-Based Strategies of Health Professionals:** PR: Graduate standing or C.I. A study of healthcare issues and strategies encountered by speech-language pathologists and nurse practitioners when promoting transdisciplinary and collaborative interactions. *Occasional.*

**NGR 5637 HPA-NURS 3(3,0)**  
**Advanced Practice Nursing in Rural Settings:** PR: Graduate student in COHPA. Focus is on advanced practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness. *Occasional.*

**NGR 5638 HPA-NURS 3(3,0)**  
**Health Promotion:** PR: Baccalaureate degree or C.I. Exploration and analysis of concepts, theories, research evidence, clinical assessment and interventions for health promotion and wellness. *Fall, Spring.*

**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. *Occasional.*

**NGR 5714 HPA-NURS 3(3,0)**  
**Clinical Teaching Strategies for Health Professional Education:** PR: EDG 6236 or Teaching Strategies for Health Professionals, or C.I. In depth study of the development, implementation, and evaluation of clinical education programs for health profession students. May be repeated for credit. *Occasional.*

**NGR 5715 HPA-NURS 3(3,0)**  
**Instructional Technology Resources for Health Professional Education:** PR: EDG 6236, Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources. *Spring.*

**NGR 5720 HPA-NURS 3(3,0)**  
**Organizational Dynamics:** PR: Baccalaureate Degree in Nursing or C.I. Analysis of organizational theories related to health care organizations and the use of leadership, communication and power to influence health care delivery and policy. *Fall.*

**NGR 5744 HPA-NURS 1(1,0)**  
**Health Care Systems, Policy and Health Professionals:** PR: Admission to the MSN program or C.I. Examine social responses to health and illness, health care systems and policies and the role of advanced practice nurses. *Fall, Spring.*

**NGR 5745 HPA-NURS 1(1,0)**  
**Professional Obligations and Activities of Advanced Practice Nursing:** PR: NGR 5746 (Roles and Issues in Advanced Practice Nursing II). Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam. *Fall, Spring.*

**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. *Fall, Spring.*

## UCF Courses and Descriptions

<p><b>NGR 5791</b> HPA-NURS 3(3,0)  <b>Teaching Strategies for Health Professionals:</b> 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. <i>Fall/NGR 5800</i> HPA-NURS 3(3,0)  <b>Theory for Advanced Practice Nursing:</b> PR: Baccalaureate degree in Nursing or C.I. Conceptual and theoretical bases of nursing practice and research with emphasis on scholarly writing and critique. <i>Fall, Spring.</i></p>	<p><b>NUR 3165</b> HPA-NURS 3(3,0)  <b>Nursing Research:</b> PR: Admission to the BSN program; STA 2014C or 2023; for Basic program students: successful completion of the first semester; for RN to BSN students: NUR 3805 and RN status; or C.I. Nursing research as a basis for nursing practice. Selected experiences in reviewing, analyzing, and interpreting nursing research for nursing practice. <i>Fall, Spring.</i></p>	<p><b>NUR 3795</b> HPA-NURS 3(3,0)  <b>Principles of Oncology Nursing:</b> PR: C.I. or Junior standing. Basic principles and concepts in oncology. Focus on cancer as it affects individuals and families. Emphasis on cancer treatment, symptoms management and psychosocial response. <i>Occasional.</i></p>
<p><b>NGR 5801</b> HPA-NURS 3(3,0)  <b>Research Methodology for Advanced Practice Nursing:</b> PR: Undergraduate Research Methods and Statistics or CI; NGR 5800. 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. <i>Fall, Spring.</i></p>	<p><b>NUR 3167</b> HPA-NURS 1(2,0)  <b>Accelerated Nursing Research Seminar:</b> PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the SON, NUR 3235; NUR 3235L; NUR 3128. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues. <i>Spring.</i></p>	<p><b>NUR 3805</b> HPA-NURS 3(3,0)  <b>Transitional Concepts in Nursing I:</b> 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. <i>Fall, Spring.</i></p>
<p><b>NGR 5871</b> HPA-NURS 3(3,0)  <b>Health Care Informatics:</b> PR: Baccalaureate in health related field or C.I. Use of information systems, clinical data management, communication strategies, and decision-making models. <i>Fall.</i></p>	<p><b>NUR 3235</b> HPA-NURS 5(5,0)  <b>Promoting Physical and Mental Health in the Community:</b> PR: Completion of all Jr. level first semester courses or C.I. Biopsychosocial nursing interventions in physical and mental health problems with emphasis on family-centered care in the community. <i>Fall, Spring.</i></p>	<p><b>NUR 3806</b> HPA-NURS 1(1,0)  <b>Professional Socialization Seminar:</b> PR: NUR 3065 and C.I. Application of library utilization and professional writing skills, critical thinking and stress management principles to the beginning role of the professional nurse. <i>Spring.</i></p>
<p><b>NGR 5880</b> HPA-NURS 3(3,0)  <b>Professional Ethics:</b> PR: C.I. Clinical cases and other professional ethical issues related to codes of conduct and research; application of ethical principles. May be repeated for credit. <i>Occasional.</i></p>	<p><b>NUR 3235L</b> HPA-NURS 4(0,4)  <b>Clinical Practice in Promoting Physical and Mental Health in the Community:</b> PR: Completion of all Jr. level first semester courses or C.I. Clinical application of biopsychosocial nursing interventions in physical &amp; mental health problems with emphasis on family-centered care in the community. Graded S/U. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>NUR 3825</b> HPA-NURS 2(2,0)  <b>The Role of the Professional Nurse:</b> PR: Admission to the school of Nursing. Examination of the role and function of the professional nurse, including professional standards, legal and practice issues. <i>Fall, Spring.</i></p>
<p><b>NGR 5930</b> HPA-NURS 3(3,0)  <b>Issues in Health Care for the Homeless:</b> PR: Pre-senior level baccalaureate status or admission to the graduate program; CI. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless. <i>Occasional.</i></p>	<p><b>NUR 3616</b> HPA-NURS 3(3,0)  <b>Promoting Healthy Families Across the Lifespan:</b> 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 childbearing, childrearing, adulthood, and aging. <i>Fall, Spring.</i></p>	<p><b>NUR 3826H</b> HPA-NURS 3(3,0)  <b>Bioethical and Legal Issues in Health Care -Honors:</b> 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. <i>Occasional.</i></p>
<p><b>NGR 5931</b> HPA-NURS 3(3,0)  <b>Interdisciplinary Care at End-of-Life:</b> 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. <i>Fall.</i></p>	<p><b>NUR 3616L</b> HPA-NURS 3(0,3)  <b>Clinical Practice in Promoting Healthy Families:</b> 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. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>NUR 3936</b> HPA-NURS 3(2,2)  <b>International Perspectives of Nursing and Health Care:</b> PR: Enrolled in School of Nursing or C.I. Comparative analysis of professional nursing practice and health care system in the United States and selected countries. May be repeated for credit. <i>Occasional.</i></p>
<p><b>NUR 1015</b> HPA-NURS 3(3,0)  <b>Nursing as a Profession:</b> Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care. <i>Fall.</i></p>	<p><b>NUR 3617</b> HPA-NURS 3(3,0)  <b>Promoting Healthy Communities:</b> 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. <i>Fall, Spring.</i></p>	<p><b>NUR 4084</b> HPA-NURS 3(3,0)  <b>Transitional Concepts in Nursing II:</b> PR: NUR 3805, NUR 3065, NUR 3165. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3805. <i>Fall, Spring.</i></p>
<p><b>NUR 3026L</b> HPA-NURS 1(0,2)  <b>Therapeutic Interventions for Health Professionals:</b> PR: Admission to Nursing Program. Theoretical rationale and psychomotor development for therapeutic interventions in nursing practice. Graded S/U. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>NUR 3637</b> HPA-NURS 5(5,0)  <b>Accelerated Promoting Healthy Families and Communities:</b> PR: Admission to Accelerated Second Degree BSN Option; NUR 3065, NUR 3026L, NUR 3825, NUR 3637L. Application of concepts of family and community nursing as it relates to health across the lifespan including childbearing, childrearing, childhood, adulthood, and aging. <i>Occasional.</i></p>	<p><b>NUR 4196</b> HPA-NURS 3(3,0)  <b>Crisis Intervention:</b> PR: Completion of PSY 2012, SYG 2000 or ANT 2000. Crisis theory and techniques; recognition and intervention in crisis events. Applicable to all areas of nursing and all helping professions. <i>Occasional.</i></p>
<p><b>NUR 3065</b> HPA-NURS 2(2,0)  <b>Health Assessment:</b> PR: or CR: NUR 3065L, and admission to the School of Nursing or C.I. Concepts of health assessment of clients. <i>Fall, Spring.</i></p>	<p><b>NUR 3637L</b> HPA-NURS 2(0,2)  <b>Accelerated Clinical Practice in Promoting Healthy Families and Communities:</b> PR: Admission to Accelerated Second Degree BSN option, Coreqs: NUR 3637, NUR 3026L; NUR 3065, NUR 3825. Primary care nursing practice with healthy communities and families across the lifespan, including common health promotion activities related to childbearing, childrearing, childhood, adulthood, and aging. Graded S/U. <i>Occasional.</i> M&amp;S fee: \$40.00</p>	<p><b>NUR 4257</b> HPA-NURS 3(3,0)  <b>Introduction to Critical Care Nursing:</b> PR: RN status or C.I. Theories and principles of comprehensive nursing care of individuals and families in critical care settings. <i>Spring.</i></p>
<p><b>NUR 3065L</b> HPA-NURS 1(0,1)  <b>Health Assessment Lab:</b> CR: NUR 3065 and admission to the School of Nursing or C.I. Clinical application of concepts and techniques of health assessment of clients. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>NUR 3128</b> HPA-NURS 5(5,0)  <b>Pathophysiology and Pharmacology for Nursing Practice:</b> PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiological basis of illness, and principles of pharmacology. <i>Fall, Spring.</i></p>	<p><b>NUR 4286</b> HPA-NURS 3(3,0)  <b>Gerontologic Nursing:</b> 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. <i>Occasional.</i></p>
		<p><b>NUR 4525</b> HPA-NURS 2(2,0)  <b>Nursing Intervention in Mental Illness:</b> 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. <i>Fall, Spring.</i></p>
		<p><b>NUR 4525L</b> HPA-NURS 1(0,1)  <b>Clinical Practice with Mentally Ill Clients:</b> 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. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>

## UCF Courses and Descriptions

NUR 4636	HPA-NURS	3(3,0)	<b>Community as the Continuum of Care:</b> PR: Completion of all Jr. level and Sr. Fall courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. <i>Fall, Spring.</i>	NUR 4829	HPA-NURS	3(3,0)	<b>Accelerated Transitioning into Professional Practice as a Leader:</b> PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4639, NUR 4636L. Application of leadership and management principles to the beginning role of the professional nurse. <i>Occasional.</i>	NUR 4945L	HPA-NURS	4(0,4)	<b>Nursing Practicum:</b> PR: Admission to the BSN program; STA 2014C or 2023; for Basic program successful completion of the first three semesters; for RN to BSN students: NUR 3805 and RN status or C.I. Designed to enhance student's knowledge and expertise in an area of nursing practice chosen by the student and school of nursing faculty. Graded S/U. <i>Spring.</i>
NUR 4636L	HPA-NURS	2(0,2)	<b>Clinical for Community as the Continuum of Care:</b> 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. <i>Fall, Spring.</i> M&S fee: \$45.00	NUR 4835	HPA-NURS	2(2,0)	<b>Role Transition:</b> 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. <i>Spring.</i>	NUR 4971H	HPA-NURS	3(3,0)	<b>Thesis or Project Works-Honors:</b> PR: Permission of Honors. This course provides students with faculty mentoring through the process of writing and defending the Honors Thesis or Project. <i>Occasional.</i>
NUR 4639	HPA-NURS	2(2,0)	<b>Accelerated Community as a Continuum of Care:</b> PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4829, NUR 4636L. Focus on knowledge needed in a community oriented practice model to effect changes in health status and risk, and self care capacity of target population. <i>Occasional.</i>	NUR 4836	HPA-NURS	3(1,2)	<b>Professional Development Seminar in Nursing:</b> PR: Acceptance to RN-MSN program track; Current Florida RN license; CR: NUR 3805. Exploration of the role of the professional nurse. <i>Spring.</i>	OCE 3008	COS-BIOL	3(3,0)	<b>Oceanography:</b> PR: BSC 2010C, CHM 2045C, and CHM 2046. Biological, physical and chemical oceanography. <i>Occasional.</i>
NUR 4675	HPA-NURS	3(3,0)	<b>Issues in Rural Health Care:</b> PR: NUR 3065 or Junior Status or C.I. The rural environment and appropriate health care services and programs for rural populations. <i>Occasional.</i>	NUR 4837	HPA-NURS	3(3,0)	<b>Health Care Issues, Policy, and Economics:</b> 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. <i>Fall, Spring.</i>	OSE 3490	OPT-OPT	3(3,0)	<b>Nanophotonics:</b> PR: PHY 2049 or C.I. Optical/photon processes on nano scale and interactions with elements of physics & engineering. <i>Occasional.</i>
NUR 4676	HPA-NURS	3(3,0)	<b>Health Care of Special Populations: Homeless:</b> 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. <i>Occasional.</i>	NUR 4838L	HPA-NURS	2(0,2)	<b>Directed Practicum in Nursing Administration:</b> CR: NGR 5720. Clinical practice in an area of nursing administration. Graded S/U. <i>Occasional.</i>	OSE 5041	OPT-OPT	3(3,0)	<b>Introduction to Wave Optics:</b> 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. <i>Occasional.</i>
NUR 4745	HPA-NURS	4(4,0)	<b>Nursing Care of Clients with Acute and Life-threatening Illness across Lifespan:</b> PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing care of individuals and families experiencing acute, unstable, or life-threatening health problems. <i>Fall, Spring.</i>	NUR 4905C	HPA-NURS	Variable	<b>Nursing Independent Study:</b> PR: NUR 4756C. An opportunity for in-depth study in an area of special interest to the student. <i>Occasional.</i>	OSE 5050	OPT-OPT	3(3,0)	<b>Fundamentals and Applications of Photonics:</b> PR: Graduate standing or C.I. Introduction to optics and photonics emphasizing the concepts governing applications of current interest for science and engineering senior and first-year graduate students and working scientists and engineers. <i>Occasional.</i>
NUR 4745L	HPA-NURS	4(0,4)	<b>Clinical Practice in Caring for Clients with Acute Illness:</b> 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. <i>Fall, Spring.</i> M&S fee: \$45.00	NUR 4906	HPA-NURS	Variable	<b>Independent Study:</b> Directed Study. <i>Occasional.</i>	OSE 5051L	OPT-OPT	3(1,4)	<b>Electro-Optics Laboratory:</b> PR: EEL 4440 or OSE 5041 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics. <i>Occasional.</i>
NUR 4812C	HPA-NURS	4(1,3)	<b>Practicum and Role Development for RN's:</b> 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. <i>Fall, Spring.</i>	NUR 4907H	HPA-NURS	3(3,0)	<b>Directed Reading/Research-Honors:</b> 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. <i>Occasional.</i>	OSE 5111	OPT-OPT	3(3,0)	<b>Optical Wave Propagation:</b> PR: Graduate standing or C.I. Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams. <i>Odd Fall, Even Spring.</i>
NUR 4827	HPA-NURS	3(3,0)	<b>Leadership and Management Principles:</b> PR: NUR 3805, RN Status or C.I. Scientific theories and principles of leadership and management needed to function in leadership, management, and teaching roles in professional nursing. Application of decision making process. <i>Fall, Spring.</i>	NUR 4930	HPA-NURS	3(3,0)	<b>Health Issues in Minority and Special Populations:</b> 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. <i>Occasional.</i>	OSE 5115	COS-PHYS	3(3,0)	<b>Interference and Diffraction:</b> 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. <i>Fall, Odd Spring.</i>
NUR 4828	HPA-NURS	2(0,2)	<b>Professional Issues and Development:</b> PR: RN status, or C.I. CR: NUR 4945L, NUR 4827. Analysis of current issues relating to health care delivery and the baccalaureate graduate entering professional nursing practice. <i>Occasional.</i>	NUR 4934	HPA-NURS	3(3,0)	<b>Holistic Nursing:</b> Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes. <i>Occasional.</i>	OSE 5143	OPT-OPT	3(3,0)	<b>Fiber Optics Communication:</b> PR: EEL 3552C, EEL 3470. Use of Fiber Optics as a communication channel. Principles of Fiber optics. Mode theory, transmitters, modulators, sensors detectors and demodulators. <i>Occasional.</i>
				NUR 4936	HPA-NURS	3(3,0)	<b>Women's Health Issues:</b> PR: ENC 1102, Junior standing, or C.I. Factors and conditions impacting the health of women. May be repeated for credit. <i>Fall.</i>	OSE 5203	OPT-OPT	3(3,0)	<b>Fundamentals of Applied Optics:</b> PR: Graduate standing or C.I. Fundamentals of Geometrical Optics, Geometrical Theory of Image Formation, Optical System Layout, Radiometry. <i>Fall, Odd Spring.</i>

## UCF Courses and Descriptions

<p>OSE 5234L OPT-OPT 3(1,3)  <b>Applied Optics Laboratory:</b> PR: Graduate Standing or C.I. Microscopic theory of absorption, dispersion, and quantitative experimental study of geometrical optics, optical interferometry, diffraction, and image processing. <i>Odd Spring.</i></p>	<p>PAD 4110 HPA-PUB 3(3,0)  <b>Intergovernmental Administration:</b> Various approaches to studying and explaining the American intergovernmental system. Emphasis on interorganizational activities, i.e., negotiation, cooperation, and coordination within the legal setting. <i>Fall.</i></p>	<p>PAD 4351 HPA-PUB 3(3,0)  <b>Issues in Environmental Program Management:</b> CR: PAD 3330. The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects. <i>Spring.</i></p>
<p>OSE 5312 OPT-OPT 3(3,0)  <b>Fundamentals of Optical Science:</b> PR: Graduate standing or C.I. Microscopic theory of absorption, dispersion, and refraction of materials; wave propagation, introduction to lasers and nonlinear optics. <i>Even Fall, Odd Spring.</i></p>	<p>PAD 4131 HPA-PUB 3(3,0)  <b>Public Sector Project Management:</b> Various approaches to managing projects, including using scheduling techniques such as GANTT, CPM, and PERT, as well as team building, facilitating, and leadership skills. <i>Occasional.</i></p>	<p>PAD 4390 HPA-PUB 3(3,0)  <b>Hazard Mitigation and Preparedness:</b> PR: PR or CR: PAD 4392. Specialized knowledge and skills necessary to develop a proactive hazard mitigation plan to reduce the effects of natural and technological disasters. <i>Fall.</i></p>
<p>OSE 5313 OPT-OPT 3(3,0)  <b>Materials for Optical Systems:</b> PR: Graduate standing or C.I. Course will review key attributes of optical materials that allow them to be used in a range of applications, devices and components in optical systems. <i>Occasional.</i></p>	<p>PAD 4144 HPA-PUB 3(3,0)  <b>Non-Profit Organizations:</b> PR: PAD 3003 or C.I. The operations of non profit organizations, including working with board of directors, volunteer services, fund-raising and grantsmanship, financial management and marketing. <i>Fall, Spring.</i></p>	<p>PAD 4392 HPA-PUB 3(3,0)  <b>Managing Public Emergencies:</b> 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. <i>Fall.</i></p>
<p>OSE 5414 OPT-OPT 3(3,0)  <b>Fundamentals of Optoelectronic Devices:</b> PR: Graduate standing or C.I. Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices. <i>Even Fall.</i></p>	<p>PAD 4147 HPA-PUB 3(3,0)  <b>Resource Development in the Nonprofit Sector:</b> PR: Junior status or C.I. Examination of the development and management of human resources and financial resource development in nonprofit organizations is discussed. <i>Fall.</i></p>	<p>PAD 4395 HPA-PUB 3(3,0)  <b>Disaster Response and Recovery:</b> PR: PR or CR: PAD 4392. Individual, group, organizations and community behavior and recovery from disasters. Service delivery strategies are highlighted and complex dynamics of the recovery process are emphasized. <i>Spring.</i></p>
<p>OSE 5421 OPT-OPT 3(3,0)  <b>Integrated Optics:</b> PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optical waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components. <i>Odd Spring.</i></p>	<p>PAD 4148 HPA-PUB 3(3,0)  <b>Volunteer Management:</b> PR: Junior status or C.I. Examination of recruitment, selection, training and management of volunteers in nonprofit organizations and the application of management theory. <i>Spring.</i></p>	<p>PAD 4414 HPA-PUB 3(3,0)  <b>Public Personnel Administration:</b> The history, operating components, structural characteristics, and increasing impact of laws and related sanctions on personnel practices of public agencies. <i>Fall, Spring.</i></p>
<p>OSE 5511 COS-PHYS 3(3,0)  <b>Laser Principles:</b> 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. <i>Occasional.</i></p>	<p>PAD 4153 HPA-PUB 3(3,0)  <b>Planning and Improvement for Pub Org:</b> Prepare future leaders for the changing paradigms of the public sector by providing education in a variety of quality related areas. <i>Fall.</i></p>	<p>PAD 4446 HPA-PUB 3(3,0)  <b>Multiculturalism in Public Administration:</b> 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. <i>Occasional.</i></p>
<p>OSE 5630C OPT-OPT 3(2,1)  <b>Thin Film Optics:</b> 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. <i>Occasional.</i></p>	<p>PAD 4204 HPA-PUB 3(3,0)  <b>Fiscal Management:</b> PR: C.I. Analysis of methods of securing public funds, the process of budget making, and techniques of management used in managing public funds. <i>Fall, Spring.</i></p>	<p>PAD 4461 HPA-PUB 3(3,0)  <b>Reengineering Government:</b> PR: PAD 3003. Acquaint undergraduate students with the latest thinking on improving the effectiveness and efficiency of public organizations via reengineering. <i>Occasional.</i></p>
<p>PAD 3003 HPA-PUB 3(3,0)  <b>Public Administration in American Society:</b> PR: POS 2041. An examination of the basic environment, culture, and organization of public administration in the United States. <i>Fall, Spring.</i></p>	<p>PAD 4223 HPA-PUB 3(3,0)  <b>Public Budgeting: Skills and Techniques:</b> PR: PAD 4204 or C.I. Analytical skills and administrative techniques employed by public budget analysis, focusing on the process of generating and using information. <i>Occasional.</i></p>	<p>PAD 4616 HPA-PUB 3(3,0)  <b>Privatization:</b> 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. <i>Occasional.</i></p>
<p>PAD 3040 HPA-PUB 3(3,0)  <b>Ethics and Values in Public Administration:</b> PR: Junior standing or C.I. Ethical dimensions of public administration. Develops the awareness, skills, and value framework to act ethically. <i>Occasional.</i></p>	<p>PAD 4253 HPA-PUB 3(3,0)  <b>Community &amp; Economic Development:</b> 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. <i>Fall.</i></p>	<p>PAD 4712 HPA-PUB 3(3,0)  <b>Information Systems for Public Managers and Planners:</b> PR: PAD 3330 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. <i>Spring.</i></p>
<p>PAD 3330 HPA-PUB 3(3,0)  <b>Urban and Regional Planning:</b> 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. <i>Fall, Spring.</i></p>	<p>PAD 4325 HPA-PUB 3(3,0)  <b>Program Evaluation for Public and Non-Profit Organizations:</b> 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. <i>Spring.</i></p>	<p>PAD 4720 HPA-PUB 3(3,0)  <b>Survey Research in Public Administration:</b> Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector. <i>Fall, Spring.</i></p>
<p>PAD 4034 HPA-PUB 3(3,0)  <b>The Administration of Public Policy:</b> 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. <i>Fall, Spring.</i></p>	<p>PAD 4331 HPA-PUB 3(3,0)  <b>Land Use and Planning:</b> PR: PAD 3330 or C.I. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl. <i>Fall.</i></p>	<p>PAD 4803 HPA-PUB 3(3,0)  <b>Issues in Urban Administration:</b> CR: PAD 3330 or C.I. To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context. <i>Occasional.</i></p>
<p>PAD 4104 HPA-PUB 3(3,0)  <b>Administrative Theory:</b> A review of the behavioral aspects of the administrative process, its impact on organizational goal achievement and on supervisory strategies. Some social and structural pathologies affecting administrative practice. <i>Fall, Spring.</i></p>	<p>PAD 4334 HPA-PUB 3(3,0)  <b>Urban Design:</b> CR: PAD 3330 or C.I. Theories and concepts of the physical, cultural, social and financial factors associated with urban design. <i>Spring.</i></p>	<p>PAD 4941 HPA-PUB 3-6(0,6)  <b>Public Administration Internship:</b> 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. <i>Occasional.</i></p>

<b>PAD 4948</b>	<b>HPA-PUB</b>	<b>3(0,3)</b>	<b>PAD 5807</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3063H</b>	<b>COS-BIOL</b>	<b>3(3,0)</b>
<b>American Humanics Internship:</b> PR: Enrollment in American Humanics AH Certification Program, completion of 2 AH restricted course electives and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanics certification program. Requires minimum of 300 hours placement in nonprofit human services organization. May be repeated for credit. <i>Fall, Spring.</i>			<b>Administrative Practice in the Public Sector:</b> The application of various theoretical concepts to the "real world" of public administration. Policy formulation and execution are examined through the case study mode. <i>Occasional.</i>			<b>Honors Genetics:</b> PR: BSC 2010C and CHM 2046, or C.I., and consent of Honors. Basic principles of heredity as applied to prokaryotes and eukaryotes with honors content. <i>Occasional.</i>		
<b>PAD 5041</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PAD 5850</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3063L</b>	<b>COS-BIOL</b>	<b>1(0,3)</b>
<b>Ethics and Values in Public Administration:</b> Examination of ethics in the public sector. Public concerns, past patterns, and individual/social aspects of ethical behavior are explored. <i>Occasional.</i>			<b>Grant and Contract Management:</b> 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. <i>Fall, Spring.</i>			<b>Genetics Laboratory:</b> PR: PR or CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics. <i>Fall, Spring.</i> M&S fee: \$28.00		
<b>PAD 5142</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PAF 2102</b>	<b>HPA-HPA</b>	<b>2(2,0)</b>	<b>PCB 3233</b>	<b>BCBS-M&amp;M</b>	<b>3(3,0)</b>
<b>Nonprofit Organizations:</b> 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. <i>Fall, Spring.</i>			<b>Public Affairs Careers:</b> Introduction and examination of public affairs programs of study and career opportunities that will prepare students for future careers. <i>Fall.</i>			<b>Immunology:</b> PR: BSC 2010C. Basic principles of immune reactions, antigen antibody interactions, cell mediated immunity, tumor immunology, and immuno therapy. <i>Fall.</i>		
<b>PAD 5145</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PAF 3753H</b>	<b>HPA-HPA</b>	<b>3(3,0)</b>	<b>PCB 3233L</b>	<b>BCBS-M&amp;M</b>	<b>1(0,3)</b>
<b>Volunteerism in Nonprofit Management:</b> 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. <i>Fall, Spring.</i>			<b>Honors Ethical Issues in Health and Public Affairs:</b> PR: Permission of Honors and junior standing. Ethical challenges and dilemmas inherent in the fields of Health, Social Work, Criminal Justice and Public Administration. With Honors content. <i>Occasional.</i>			<b>Immunology Laboratory:</b> CR: PCB 3233. Introduction to laboratory techniques in immunology. <i>Fall, Spring.</i> M&S fee: \$20.00		
<b>PAD 5146</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PAF 3850H</b>	<b>HPA-HPA</b>	<b>3(3,0)</b>	<b>PCB 3301C</b>	<b>COS-BIOL</b>	<b>4(3,4)</b>
<b>Nonprofit Resource Development:</b> PR: Post-bac status or C.I. Examines human resource development and financial resource development in nonprofit organizations including management issues. <i>Fall, Spring.</i>			<b>Honors Research Methods in Health and Public Affairs:</b> PR: Participating in University Honors or Honors in the Major and junior standing. Applied research methods in fields of Criminal Justice, Nursing, Health Professions, Public Administration, and Social Work. With honors content. <i>Occasional.</i>			<b>Aquatic Biology:</b> PR: BSC 2010C and BSC 2011C, or C.I. Plant and animal components of freshwater environments. <i>Occasional.</i> M&S fee: \$20.00		
<b>PAD 5336</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PAF 3931</b>	<b>HPA-HPA</b>	<b>1(1,0)</b>	<b>PCB 3304C</b>	<b>COS-BIOL</b>	<b>4(2,4)</b>
<b>Introduction to Urban Planning:</b> Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning. <i>Fall.</i>			<b>American Humanics Human Service Workshop:</b> PR: American Humanics 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 Humanics student association activities are included. May be repeated for credit. <i>Fall, Spring.</i>			<b>River Ecology:</b> PR: BSC 2011C or C.I. Ecology, limnology, and conservation of rivers with special emphasis on Florida water systems. <i>Occasional.</i>		
<b>PAD 5337</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3023</b>	<b>COS-BIOL</b>	<b>3(3,0)</b>	<b>PCB 3314</b>	<b>COS-BIOL</b>	<b>3(3,0)</b>
<b>Urban Design:</b> Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design. <i>Fall.</i>			<b>Molecular Cell Biology:</b> PR: BSC 2010C and CHM 2210, or C.I. Molecular structure and function of eukaryotic organelles. Transcription: RNA processing translation and post translation targeting and modification of gene products. <i>Fall, Odd Spring.</i>			<b>Marine Bio Diversity:</b> PR: BSC 2010C, CHM 2045C, and CHM 2046. The diversity of life in our oceans. <i>Occasional.</i>		
<b>PAD 5338</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3024L</b>	<b>COS-BIOL</b>	<b>2(0,8)</b>	<b>PCB 3355C</b>	<b>COS-BIOL</b>	<b>2(1,1)</b>
<b>Land Use and Planning Law:</b> Review of national and local aspects of the legal underpinnings of urban planning aspects such as zoning, growth management, and environmental regulation. <i>Spring.</i>			<b>Molecular Cell Biology Laboratory:</b> PR: or CR: PCB 3023. Critical thinking, technical skills, and integration of biochemical, molecular, and microscopic experimental approaches to understanding cell structure and function. <i>Occasional.</i>			<b>Tropical Marine Biology:</b> PR: BSC 2010C and BSC 2011C or C.I. Intensive, one week field course at an institute of marine science. Diving/snorkeling will be used extensively to study organisms on pristine coral reefs. <i>Occasional.</i>		
<b>PAD 5356</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3044</b>	<b>COS-BIOL</b>	<b>3(3,0)</b>	<b>PCB 3442</b>	<b>COS-BIOL</b>	<b>3(3,0)</b>
<b>Managing Community and Economic Development:</b> PR: graduate standing or C.I. Overview of economic development activities focusing on policy and managerial issues at the local level. <i>Spring.</i>			<b>Principles of Ecology:</b> PR: BSC 2010C, BSC 2011C, and CHM 2045C, or C.I. Elements of ecosystems, biogeochemical cycling, environmental factor interactions, population dynamics, and community development. <i>Fall.</i>			<b>Florida Aquatic Ecology:</b> PR: BSC 2010C and BSC 2011C, or C.I. An introduction to aquatic ecology of Florida with emphasis on ponds, lakes, streams, and rivers. <i>Occasional.</i>		
<b>PAD 5425</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3044L</b>	<b>COS-BIOL</b>	<b>1(0,3)</b>	<b>PCB 3522</b>	<b>BCBS-M&amp;M</b>	<b>3(3,0)</b>
<b>Dispute Resolution in the Public Sector:</b> An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods. <i>Occasional.</i>			<b>Principles of Ecology Laboratory:</b> PR: or CR: PCB 3044 or C.I. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology. <i>Fall.</i> M&S fee: \$15.00			<b>Molecular Biology I:</b> PR: CHM 2211 and MCB 3020C or C.I. The general principles governing the structure and function of both prokaryotic and eucaryotic genes. <i>Fall, Spring.</i>		
<b>PAD 5427</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3063</b>	<b>COS-BIOL</b>	<b>3(3,0)</b>	<b>PCB 3703C</b>	<b>BCBS-M&amp;M</b>	<b>4(3,3)</b>
<b>Labor Relations in the Public Sector:</b> Current trends and developments in employment relations in the public sector, especially employee organization, negotiations, and the collective bargaining process. <i>Occasional.</i>			<b>Genetics:</b> PR: BSC 2010C, and CHM 2046, or C.I. Basic principles of heredity as applied to prokaryotes and eukaryotes. <i>Fall, Spring.</i>			<b>Human Physiology:</b> PR: BSC 2010C, CHM 1032 or CHM 2045C. The physiology and interrelationships of organ systems of the human body. <i>Fall, Spring.</i> M&S fee: \$35.00		
<b>PAD 5806</b>	<b>HPA-PUB</b>	<b>3(3,0)</b>	<b>PCB 3044L</b>	<b>COS-BIOL</b>	<b>1(0,3)</b>	<b>PCB 3703H</b>	<b>BCBS-M&amp;M</b>	<b>4(3,3)</b>
<b>Local Government Operations:</b> Operational Functions of municipal and county governments and the role of the chief executive officer. <i>Occasional.</i>			<b>Principles of Ecology Laboratory:</b> PR: or CR: PCB 3044 or C.I. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology. <i>Fall.</i> M&S fee: \$15.00			<b>Human Physiology Honors:</b> PR: BSC 2010C, CHM 2046 and consent of Honors College. The physiology and interrelationships of organ systems of the human body. With honors level content. <i>Fall.</i>		

## UCF Courses and Descriptions

PCB 4303C	COS-BIOL	4(3,4)	PCB 5108	COS-BIOL	4(4,0)	PCB 5665C	COS-BIOL	4(3,2)
<b>Biological Limnology:</b> PR: BSC 2010C and BSC 2011C, or C.I. Biological communities in freshwater lakes and streams. <i>Occasional.</i> M&S fee: \$20.00			<b>Concepts in Plant Cell Biology:</b> 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. <i>Spring.</i>			<b>Human Genetics:</b> 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. <i>Occasional.</i> M&S fee: \$15.00		
PCB 4353	COS-BIOL	3(3,0)	PCB 5238	BCBS-M&M	3(3,0)	PCB 5677	COS-BIOL	3(3,0)
<b>Florida Natural History:</b> PR: BSC 2010C and BSC 2011C, or C.I. Florida's ecology, past and present flora and fauna, and naturalists who visited the state. <i>Occasional.</i>			<b>Immunobiology:</b> PR: PCB 3233, PCB 4239. Advanced topics in immune system dysregulation with special emphasis on innate immunity. <i>Spring.</i>			<b>Molecular Evolution:</b> PR: PCB 3063 and PCB 4683, graduate status or senior standing, or C.I. Provides an overview of molecular methods currently used to analyze diversity within and among species. <i>Occasional.</i>		
PCB 4514	COS-BIOL	3(3,0)	PCB 5239	BCBS-M&M	3(3,0)	PCO 4203	COS-PSYCH	4(3,2)
<b>Genetics II:</b> PR: PCB 3063. Advanced topics in Genetics, including extra-nuclear inheritance, epigenesis, gene and chromosome mutation, genetics of development and behavior, and advanced genetic analytical techniques. <i>Occasional.</i>			<b>Tumor Biology:</b> 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. <i>Occasional.</i>			<b>Interviewing and Counseling:</b> 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. <i>Fall, Spring.</i>		
PCB 4524	BCBS-M&M	3(3,0)	PCB 5256C	COS-BIOL	4(3,2)	PEL 2011	ED-TLP	2(1,1)
<b>Molecular Biology II:</b> PR: PCB 3522. The processes regulating gene function in prokaryotes and eukaryotes; specialized genetic aspects underlying multi-cellular existence, DNA evolution. <i>Spring.</i>			<b>Advanced Developmental Biology:</b> PR: PCB 3063 and ZOO 4603C or equivalent, graduate status or senior standing, or C.I. Lecture and literature review of emerging areas in plant and animal developmental biology. <i>Even Fall.</i> M&S fee: \$15.00			<b>Basic Volleyball and Softball:</b> The analysis of offensive and defensive alignment, techniques, and strategies. <i>Occasional.</i>		
PCB 4524H	BCBS-M&M	3(3,0)	PCB 5275	BCBS-M&M	3(3,0)	PEL 2111	ED-TLP	2(1,1)
<b>Molecular Biology II-Honors:</b> PR: Permission of Honors and PCB 3522. Same as PCB 4525 with honors level content. <i>Spring.</i>			<b>Signal Transduction Mechanics:</b> PR: PCB 3522 and PCB 4524. A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur. <i>Occasional.</i>			<b>Bowling:</b> A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals. <i>Fall, Spring.</i>		
PCB 4529	BCBS-M&M	3(3,0)	PCB 5326C	COS-BIOL	5(3,2)	PEL 2112	ED-TLP	2(1,1)
<b>Experimental Molecular Biology:</b> PR: PCB 3522, CR: PCB 4524. Facilitation of experimental data that leads to the development and understanding of the underlying principles of molecular biology. <i>Spring.</i>			<b>Ecosystems of Florida:</b> PR: PCB 3044, PCB 3044L or equivalent, and graduate status or senior standing or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation. <i>Occasional.</i> M&S fee: \$15.00			<b>Intermediate Bowling:</b> 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. <i>Occasional.</i>		
PCB 4683	COS-BIOL	4(4,0)	PCB 5328C	COS-BIOL	4(3,2)	PEL 2121	ED-TLP	2(1,1)
<b>Population Biology and Evolution:</b> PR: PCB 3044 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals. <i>Fall, Spring.</i>			<b>Landscape Ecology:</b> PR: PCB 3044, 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. <i>Occasional.</i> M&S fee: \$15.00			<b>Beginning Golf:</b> Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. <i>Fall, Spring.</i>		
PCB 4683L	COS-BIOL	1(0,2)	PCB 5435C	COS-BIOL	4(2,6)	PEL 2122	ED-TLP	2(1,1)
<b>Population Biology and Evolution Lab:</b> PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. <i>Fall, Spring.</i> M&S fee: \$10.00			<b>Marine Ecology of Florida:</b> 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. <i>Odd Spring.</i> M&S fee: \$45.00			<b>Intermediate Golf:</b> 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. <i>Occasional.</i>		
PCB 4723	COS-BIOL	4(4,0)	PCB 5480C	COS-BIOL	4(3,2)	PEL 2341	ED-TLP	2(1,1)
<b>Animal Physiology:</b> PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology. <i>Fall.</i>			<b>Quantitative Conservation Biology:</b> PR: MAC 2311, PCB 3044, STA 2014C or C.I. Current methods of data analysis and modeling to evaluate biological population dynamics. May be repeated for credit one time. <i>Occasional.</i>			<b>Beginning Tennis:</b> Performance and application of basic skills, rules and etiquette. Physiological and social values accruing from this lifetime sport. <i>Occasional.</i>		
PCB 4805	BCBS-M&M	3(3,0)	PCB 5485	COS-BIOL	3(3,0)	PEL 2342	ED-TLP	2(1,1)
<b>Endocrinology:</b> PR: PCB 3703C or equivalent; CHM 2211. Mechanisms of action of hormones; interrelationship between the nervous and endocrine systems. <i>Occasional.</i>			<b>Models in Ecology:</b> PR: PCB 3044, MAC 2311 (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature. <i>Occasional.</i> M&S fee: \$15.00			<b>Intermediate Tennis:</b> PR: PEL 2341 or equivalent competency. Performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. <i>Occasional.</i>		
PCB 5045C	COS-BIOL	4(3,2)	PCB 5556	COS-BIOL	3(3,0)	PEL 2640	ED-TLP	2(1,1)
<b>Conservation Biology:</b> PR: PCB 3044 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required. <i>Occasional.</i> M&S fee: \$15.00			<b>Conservation Genetics:</b> PR: PCB 3063 and PCB 4683. Applications of genetic models to the understanding and conservation of animal and plant populations. <i>Occasional.</i> M&S fee: \$15.00			<b>Basic Football and Basketball:</b> The analysis of offensive and defensive alignment, techniques, and strategies. <i>Occasional.</i>		
PCB 5048C	COS-BIOL	4(2,4)				PEM 2101	ED-TLP	2(1,1)
<b>Restoration Ecology:</b> PR: PCB 3044, BSC 4312C, or graduate standing or C.I. General principles of assisting recovery of degraded, damaged or destroyed ecosystems. <i>Occasional.</i>						<b>Body Development:</b> An in-depth study of individual physical (musculo-skeletal, neuromuscular, cardiorespiratory) fitness. Emphasis on individual diagnosis, principles, procedures, and conduct of related exercise programs. <i>Fall, Even Spring.</i>		
PCB 5107C	COS-BIOL	4(3,2)				PEM 2104	ED-TLP	3(2,1)
<b>Advanced Cell Biology:</b> 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, signalling and cell cycle. <i>Occasional.</i> M&S fee: \$15.00						<b>Personal Fitness:</b> Study of personal fitness concepts, with opportunities to develop an individual, optimal level of fitness and an improved lifestyle through high-level wellness. <i>Fall, Spring.</i>		



## UCF Courses and Descriptions

PEM 2121C	ED-TLP	3(1,3)	<b>Yoga:</b> Performance and application of a series of basic movement, breathing, and concentration techniques designed to enhance body awareness, flexibility, strength, and balance, and to allow the mind to be focused and centered. <i>Fall, Spring.</i>
PEM 2131	ED-TLP	2(1,1)	<b>Strength Resistance Training:</b> Study of fitness and strength development through resistance exercise. <i>Fall, Spring.</i>
PEM 2171	ED-TLP	2(1,1)	<b>Aerobics:</b> Appropriate rhythmical muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate. <i>Fall, Spring.</i>
PEM 2173	ED-TLP	2(1,1)	<b>Step Aerobics:</b> Appropriate rhythmical muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down. <i>Occasional.</i>
PEM 2175	ED-TLP	2(1,1)	<b>Country/Western Dance:</b> 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. <i>Occasional.</i>
PEM 2405	ED-TLP	3(1,2)	<b>Self Defense for Women and Men:</b> Designed to provide students with self defense skills. <i>Fall, Spring.</i>
PEM 2443	ED-TLP	2(1,2)	<b>Tae Kwon Do:</b> An analysis and application of the martial arts, as part of an overall physical and mental training system. <i>Occasional.</i>
PEM 5408C	ED-TLP	3(2,1)	<b>Controlling Classroom Violence:</b> PR: Graduate standing; certified teacher. A hands-on course dealing with controlling disruption and violence as well as how teachers can protect themselves. <i>Occasional.</i>
PEN 1121	ED-TLP	2(1,1)	<b>Elementary Swimming:</b> For non-swimmers and beginning swimmers. Development and study of technique in the basic skills of water safety and swimming. <i>Occasional.</i>
PEO 2011	ED-TLP	3(2,1)	<b>Team Sports:</b> 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. <i>Fall, Spring.</i> M&S fee: \$5.00
PEO 2031	ED-TLP	3(2,1)	<b>Individual Sports:</b> Skill proficiency and knowledge to plan, implement and evaluate individual sports. <i>Fall, Spring.</i>
PEO 2624	ED-TLP	3(2,1)	<b>Coaching Basketball:</b> Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies. <i>Fall.</i>
PEO 3041	ED-TLP	3(3,0)	<b>Games Analysis:</b> PR: Admission to Physical Education program and Jr. Standing or C.I. Teaching methodology utilizing games for specific outcome behaviors in grades K-12. <i>Occasional.</i>
PEO 3324	ED-TLP	3(2,1)	<b>Coaching Volleyball:</b> Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies. <i>Spring.</i>
PEO 3644	ED-TLP	3(2,1)	<b>Coaching Football:</b> Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies. <i>Occasional.</i>
PEO 5645C	ED-TLP	3(2,1)	<b>Coaching Football:</b> PR: C.I. Advanced principles and methods common to the coaching of football. Includes teaching and training methods, organization, motivation and strategies. <i>Occasional.</i>
PEP 3205	ED-TLP	3(2,1)	<b>Gymnastics:</b> This course is designed to develop skill proficiency and instructional strategies in gymnastics. <i>Occasional.</i>
PET 2622C	ED-TLP	3(2,1)	<b>Human Injuries:</b> PR: C.I. The prevention, identification, care, and rehabilitation of human injuries. <i>Fall, Spring.</i>
PET 3084	ED-TLP	3(3,0)	<b>Triathlon Training and Performance:</b> 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. <i>Occasional.</i>
PET 3137	ED-TLP	3(3,0)	<b>Concepts &amp; Practices in Sports and Fitness:</b> PR: Admission to the program or C.I. Examination of concepts and practices in sports and fitness. <i>Fall.</i>
PET 3214	COS-PSYCH	3(3,0)	<b>Sports Psychology:</b> A review of principles of psychology related to the enhancement of satisfaction and performance in sports. <i>Occasional.</i>
PET 3361	ED-TLP	3(3,0)	<b>Nutrition for Sports and Fitness:</b> 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. <i>Fall.</i>
PET 3408	ED-TLP	3(3,0)	<b>Public Relations in Sports and Fitness:</b> 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. <i>Fall.</i>
PET 3462	ED-TLP	3(3,0)	<b>Fiscal and Facilities: Issues in Sports and Fitness:</b> PR: Admission to program or C.I. Design, maintenance, and operation of sports and fitness facilities with a specific focus on fiscal management. <i>Fall.</i>
PET 3493	ED-TLP	3(3,0)	<b>Sports and Ethics:</b> PR: Junior standing or C.I. An exploration into ethics and its influence on sports. <i>Fall, Spring.</i>
PET 3620C	HPA-HP	3(2,2)	<b>Principles of Athletic Training:</b> PR: PCB 3703C, ZOO 3733C, CHM 2045C, and C.I. Athletic Training majors only. Athletic training principles including injury recognition, emergency care, bloodborne pathogens, rehabilitation and prevention are presented. <i>Occasional.</i>
PET 3623C	HPA-HP	3(2,2)	<b>Recognition and Evaluation of Athletic Injuries I:</b> PR: PET 3620C. Recognition and evaluation skills required to perform an injury assessment of the upper extremity, head and neck, and provision of immediate management. <i>Fall.</i>
PET 3670C	HPA-HP	4(0,8)	<b>Practicum in Athletic Training I:</b> PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer. <i>Fall.</i>
PET 3671C	HPA-HP	4(0,8)	<b>Practicum in Athletic Training II:</b> PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer. <i>Spring.</i>
PET 3740C	ED-TLP	2(1,1)	<b>Teaching Physical Education in the Secondary and Middle School (6-12):</b> PR: Admission to Junior Block, or C.I. Curricular and instructional considerations for teaching secondary and middle school physical education. <i>Occasional.</i>
PET 3765	ED-TLP	3(3,0)	<b>Coaching Theory:</b> PR: Admitted to COE or C.I. Theories of coaching team and individual sports. <i>Fall, Spring.</i>
PET 3776	ED-TLP	3(3,0)	<b>Fitness and Conditioning Concepts:</b> PR: ZOO 3736C or C.I. The integration of advanced components of muscular strength training and endurance conditioning for the sports and fitness professional. <i>Fall.</i>
PET 3820	ED-TLP	3(2,1)	<b>Teaching Sports Skills I:</b> PR: PET 2622C. Skill proficiency and knowledge to plan, implement and evaluate sports and leisure activities in physical education programs. <i>Occasional.</i>
PET 3940	ED-TLP	3(3,0)	<b>Internship I Physical Education:</b> PR: EDG 4323; CR: PET 3930. Student teaching in a physical education program under the supervision of a certified classroom teacher. <i>Occasional.</i>
PET 3941	ED-TLP	6(0,16)	<b>Internship I:</b> PR: Senior standing. EDG 4323. Satisfactory completion of the portfolio. Internship assignment under a certified physical education teacher. Half in elementary, half in secondary. <i>Occasional.</i>
PET 4002	ED-TLP	3(1,2)	<b>Outdoor and Leisure Activities:</b> Study of contemporary outdoor and leisure activities. Course will include but not be limited to the "adventure activity curriculum," camping, water activities, fishing, orienteering, hiking. <i>Occasional.</i>
PET 4050C	ED-TLP	3(2,1)	<b>Motor Development and Learning:</b> 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. <i>Fall, Spring.</i>
PET 4083C	ED-TLP	4(3,1)	<b>Practical Fitness training:</b> PR: PET 4312, PET 4351C, PET 2622C, PET 4550, PEM 2171. An in-depth study into fitness-related concepts as they are applied to individuals and groups. <i>Fall.</i>
PET 4088	ED-CFCS	3(3,0)	<b>Physical Activity &amp; Preventive Medicine:</b> PR: ZOO 3736C or C.I. Critique and analysis of evidence that exercise training can prevent some diseases and increase quality of life. <i>Occasional.</i>
PET 4215	ED-TLP	3(3,0)	<b>Motivational Aspects of Athletic Performance:</b> PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athlete performance. <i>Fall, Spring.</i>

## UCF Courses and Descriptions

PET 4312	ED-TLP	3(2,1)	PET 4640	ED-TLP	3(3,0)	PET 5355	ED-TLP	3(3,0)
<b>Biomechanics:</b> PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement. <i>Fall.</i>			<b>Adapted Physical Education:</b> Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed. <i>Spring.</i>			<b>Exercise and Health:</b> 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 fitness/wellness settings. <i>Occasional.</i>		
PET 4315C	HPA-HP	3(2,2)	PET 4660C	HPA-HP	3(3,0)	PET 5405	ED-CFCS	3(3,0)
<b>Biomechanics of Sport:</b> PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries. <i>Fall.</i>			<b>Organization and Administration of Athletic Training:</b> PR: PET 3671C. Administrative knowledge in the athletic training profession. <i>Fall.</i>			<b>Introduction to Sports Administration:</b> 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. <i>Occasional.</i>		
PET 4351C	ED-TLP	3(2,1)	PET 4672C	HPA-HP	4(0,8)	PET 5465	ED-CFCS	3(3,0)
<b>Applied Exercise and Human Physiology:</b> PR: ZOO 3733C, ZOO 3736C or appropriate human anatomy course. Metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport. <i>Fall, Spring.</i>			<b>Practicum in Athletic Training III:</b> PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. <i>Fall.</i>			<b>Financial Issues in Sports and Fitness:</b> PR: C.I. Examines basic financial concepts including understanding annual reports, developing budgets, financial analysis, and examining methods for increasing revenue and controlling cost in the sport industry. <i>Occasional.</i>		
PET 4401	ED-TLP	3(3,0)	PET 4673C	HPA-HP	4(0,8)	PET 5466	ED-CFCS	3(3,0)
<b>Administration and Evaluation in Physical Education:</b> This course is designed to address administrative, measurement and evaluation considerations of physical education programs. <i>Fall, Spring.</i>			<b>Practicum in Athletic Training IV:</b> PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. <i>Spring.</i>			<b>Marketing and Promoting Sports and Fitness Programs:</b> PR: C.I. Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events. <i>Occasional.</i>		
PET 4491	ED-TLP	3(3,0)	PET 4674	HPA-HP	1(1,0)	PET 5635	ED-TLP	3(3,0)
<b>Legal Issues in Sports and Fitness:</b> PR: Admission to program or C.I. Examination of the legal issues and problems encountered by sports and fitness professionals. <i>Fall.</i>			<b>Athletic Training Seminar:</b> PR: PET 4632C, PET 4632C, and Senior standing. National Examination review and introduction to related allied health professionals. <i>Spring.</i>			<b>Advanced Human Injuries:</b> PR: PET 2622C or C.I. The application of medical knowledge to sport with the emphasis on preserving the health of an athlete before, during and after performance. <i>Occasional.</i>		
PET 4550	ED-TLP	3(2,1)	PET 4710	ED-TLP	3(3,0)	PET 5766	ED-TLP	3(3,0)
<b>Fitness Assessment:</b> PR: ZOO 3736C or C.I. A study and acquisition of health related fitness, exercise strategies and related assessment techniques. <i>Occasional.</i>			<b>Teaching Physical Education K-12:</b> PR: Must be admitted to internship. Develop effective instructional skills through planning, teaching, and assessment. Curricular and instructional considerations for teaching Physical Education. <i>Odd Fall, Even Spring.</i>			<b>Advanced Coaching Theory:</b> PR: C.I. Advanced study of theories and methods of coaching for optimum sports performance. <i>Occasional.</i>		
PET 4603	HPA-HP	3(3,0)	PET 4724	ED-TLP	3(3,0)	PET 5931	ED-TLP	3(3,0)
<b>Introduction to Athletic Training:</b> PR: Athletic Training majors only. Basic athletic training skills including emergency care, taping and wrapping, goniometry and manual muscle testing. <i>Occasional.</i>			<b>Development and History of Physical Education Curriculum:</b> A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs. <i>Occasional.</i>			<b>Current Issues and Trends in Physical Education and Sport:</b> 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. <i>Occasional.</i>		
PET 4604	HPA-HP	3(3,0)	PET 4763	ED-TLP	3(3,0)	PGY 2401C	CAH-ART	3(3,2)
<b>Sports Medicine Field Application:</b> Demonstration and application of the treatment for various sports injuries. <i>Spring.</i>			<b>Coaching Methods And Principles:</b> 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. <i>Occasional.</i>			<b>Beginning Photography:</b> PR: ART 2201C, ART 2300C or C.I. Introduction to photography with an art emphasis. <i>Fall.</i> M&S fee: \$45.00		
PET 4606	HPA-HP	3(3,0)	PET 4823C	ED-TLP	3(2,1)	PGY 3002	CAH-ART	3(3,0)
<b>Applied Fitness in Sport:</b> PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics. <i>Spring.</i>			<b>Teaching Sports Skills II:</b> PR: PET 3820. Skill, proficiency and knowledge to plan, implement and evaluate sports skills. <i>Odd Fall, Even Spring.</i>			<b>Contemporary Photography:</b> PR: ARH 3711 or C.I. Late 20th and 21st century (1970's-present) contemporary movements in photography, special emphasis on issues and ideas relative to contemporary image making. <i>Occasional.</i>		
PET 4624C	HPA-HP	3(2,2)	PET 4925	ED-TLP	3-6 (0,16)	PGY 3205	CAH-ART	3(3,0)
<b>Recognition and Evaluation of Athletic Injuries II:</b> PR: PET 3620C and PET 3623C. Recognition and evaluation skills required to perform an injury assessment of the lower extremity, spine, and general medical conditions and provision of immediate management. <i>Spring.</i>			<b>Sports and Fitness Practicum I:</b> 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. <i>Occasional.</i>			<b>Photographic Lighting Techniques:</b> PR: PGY 2107, PGY 2215 or C.I. Advanced lighting techniques in both the studio and on location, with projects in the editorial, advertising, or fine art genres. <i>Occasional.</i> M&S fee: \$45.00		
PET 4625	ED-TLP	3(3,0)	PET 4926	ED-TLP	9-12(0,35)	PGY 3324	CAH-ART	3(3,0)
<b>Human Injuries: Mechanisms &amp; Prevention:</b> PR: PET 2622C and ZOO 3736C or C.I. Study of human movement and analysis of techniques for the prevention and treatment of human injuries associated with sports and fitness. <i>Fall.</i>			<b>Sports and Fitness Practicum II:</b> PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business. <i>Occasional.</i>			<b>The Professional Environment:</b> PR: ARH 3711, PGY 3002, or C.I. The world of professional photography, exploring various topics such as legal and ethical issues, marketing and self-promotion strategies. <i>Occasional.</i>		
PET 4630C	HPA-HP	4(2,4)	PET 4943	ED-TLP	12(0,35)	PGY 3410C	CAH-ART	3(3,2)
<b>Therapeutic Exercise in Athletic Training:</b> PR: PET 3623C. Rehabilitation processes regarding exercise progression for athletic injury. <i>Occasional.</i>			<b>Internship II:</b> PR: Must have completed course work in specialization. Satisfactory completion of the portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded S/U. <i>Occasional.</i>			<b>Intermediate Photography:</b> PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C. Intermediate camera and darkroom practice designed for art majors with studio skills. <i>Spring.</i> M&S fee: \$45.00		
PET 4632C	HPA-HP	4(2,4)	PET 4945	ED-TLP	12(0,35)			
<b>Therapeutic Modalities in Athletic Training:</b> PR: PET 4624C. Principles and techniques for applying therapeutic modalities. <i>Occasional.</i>			<b>Internship II:</b> PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. <i>Occasional.</i>					

<p><b>PGY 3451</b> CAH-ART 3(3,0)  <b>Alternative Processes:</b> PR: PGY 4472 or C.I. 19th century photographic processes with related contemporary non-traditional methods of image creation and presentation. <i>Occasional.</i> M&amp;S fee: \$45.00</p>	<p><b>PGY 4471</b> CAH-ART 3(3,0)  <b>Photography Thesis:</b> PR: PGY 3324, PGY 4003, or C.I. Senior thesis project culminating in a public exhibition or portfolio presentation. <i>Occasional.</i></p>	<p><b>PHI 2010H</b> CAH-PHIL 3(3,0)  <b>Honors Introduction to Philosophy:</b> PR: Permission of Honors. Same as PHI 2010 with honors-level content. <i>Fall.</i></p>
<p><b>PGY 3480</b> CAH-ART 3(3,0)  <b>Photographic Exhibition and Display:</b> PR: ARH 3711, PGY 3002, PGY 3324 or C.I. The museum environment, focusing on the acquisition and display of photographic materials as well as curatorial functions facing contemporary museums. <i>Occasional.</i></p>	<p><b>PGY 4472</b> CAH-ART 3(3,0)  <b>Photography Workshop/Project:</b> PR: PGY 2655, PGY 2216 or C.I. Student personal projects incorporating photographic imagery. Emphasis is on purposeful and well-conceived self-expression and discovery. <i>Occasional.</i> M&amp;S fee: \$45.00</p>	<p><b>PHI 2011</b> CAH-PHIL 3(3,0)  <b>Philosophical Reasoning:</b> 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. <i>Occasional.</i></p>
<p><b>PGY 3610C</b> COS-COMM 3(1,4)  <b>Photojournalism I:</b> 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. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>PGY 5108C</b> CAH-ART 3(2,4)  <b>Advanced Techniques and Concepts in Photography:</b> PR: PGY 2401C, PGY 3410C and PGY 4420C, or admission into MFA Graduate Program. Advanced techniques and concepts in photography, introducing historic and contemporary photographic works. May be repeated for credit twice. <i>Occasional.</i></p>	<p><b>PHI 2101</b> CAH-PHIL 3(3,0)  <b>Formal Logic I:</b> A study of sentence and predicate logics, with introduction to modal, epistemic, deontic, multi-valued, and indeterminant logics. <i>Occasional.</i></p>
<p><b>PGY 3630</b> COS-COMM 3(3,0)  <b>Photojournalism III:</b> PR: PGY 3620C. Photography Editing. Assignment selection, picture and copy editing, cropping, picture desk management, and ethics of photojournalism, and the new technological advances. <i>Occasional.</i> M&amp;S fee: \$11.00</p>	<p><b>PHH 3041</b> CAH-PHIL 3(3,0)  <b>Russian Philosophy:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 2108</b> CAH-PHIL 3(3,0)  <b>Critical Thinking:</b> The logic of conversation, informal fallacies, and reasoning about human action. <i>Occasional.</i></p>
<p><b>PGY 3620C</b> COS-COMM 3(1,2)  <b>Photojournalism II:</b> PR: PGY 3610C. The Picture Story. Individual and group projects for extended documentary coverage. <i>Odd Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>PHH 3100</b> CAH-PHIL 3(3,0)  <b>Ancient Philosophy:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 2630</b> CAH-PHIL 3(3,0)  <b>Ethics:</b> An examination of the nature of moral problems, judgements and principles, with an emphasis on recent formulations in ethical theory. <i>Occasional.</i></p>
<p><b>PGY 3751</b> CAH-ART 3(3,0)  <b>Videography:</b> PR: PGY 3821 or C.I. Creation of video narratives using the digital environment. <i>Occasional.</i></p>	<p><b>PHH 3200</b> CAH-PHIL 3(3,0)  <b>Medieval Philosophy:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 2647</b> CAH-PHIL 3(3,0)  <b>Logic and Ethics:</b> PR: PHI 2101 or COT 3100C or MAD 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics. <i>Occasional.</i></p>
<p><b>PGY 3809</b> CAH-ART 3(3,0)  <b>Photography and Web Design:</b> PR: PGY 3821 or C.I. Advanced issues in digital imaging, emphasis on professional output solutions for the photographer such as web as an interface, large format printing, and film recorder. <i>Occasional.</i> M&amp;S fee: \$45.00</p>	<p><b>PHH 3460</b> CAH-PHIL 3(3,0)  <b>Modern Western Philosophy:</b> PR: PHI 2010. Major western philosophers and philosophical movements from Descartes to Nietzsche. <i>Even Fall.</i></p>	<p><b>PHI 3022</b> CAH-PHIL 3(3,0)  <b>Sexuality, Gender &amp; Philosophy:</b> PR: WST 3015, PHI 2010, PHM 3123, or C.I. Examines the contributions of post-structuralist and neopsychoanalytical theories to cultural issues in sexuality and gender. <i>Even Spring.</i></p>
<p><b>PGY 3821</b> CAH-ART 3(3,0)  <b>Digital Imagery for Photography:</b> PR: PGY 1806 or C.I. Current digital imaging software and its application to contemporary work. <i>Occasional.</i> M&amp;S fee: \$45.00</p>	<p><b>PHH 3510</b> CAH-PHIL 3(3,0)  <b>Marx and Nietzsche:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 3033</b> CAH-PHIL 3(3,0)  <b>Philosophy, Religion, and the Environment:</b> 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. <i>Occasional.</i></p>
<p><b>PGY 4003</b> CAH-ART 3(3,0)  <b>Image, Culture, and Society:</b> PR: PGY 3002 or C.I. The role of the media and media imagery in culture and society. <i>Occasional.</i></p>	<p><b>PHH 3600</b> CAH-PHIL 3(3,0)  <b>Contemporary Philosophy:</b> PR: PHI 2010 or C.I. Recent and current trends in philosophy, including philosophical analysis, phenomenology, structuralism, post-structuralism, and liberation philosophies. <i>Occasional.</i></p>	<p><b>PHI 3083</b> CAH-PHIL 3(3,0)  <b>Research Methods in Philosophy:</b> PR: Philosophy or Humanities major or C.I. Sources, methods, and styles of research in Philosophy. Aimed at enhancing the research, reading, and writing skills of undergraduate philosophy students. <i>Odd Fall.</i></p>
<p><b>PGY 4228</b> CAH-ART 3(3,0)  <b>Advanced Illustrative Photography:</b> PR: PGY 3205 or C.I. Various avenues of photographic illustration, including lighting, historical and contemporary issues, style, presentation, and social concerns. <i>Occasional.</i> M&amp;S fee: \$45.00</p>	<p><b>PHH 3700</b> CAH-PHIL 3(3,0)  <b>American Philosophy:</b> 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. <i>Even Spring.</i></p>	<p><b>PHI 3131</b> CAH-PHIL 3(3,0)  <b>Formal Logic II:</b> PR: PHI 2101. Systematic study of propositional and first-order predicate logic; logistic systems and axiomatic methods; problems of metatheory, including consistency, completeness, and decidability. <i>Occasional.</i></p>
<p><b>PGY 4420C</b> CAH-ART 3(2,3)  <b>Advanced Photography:</b> 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. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>PHH 3701</b> CAH-PHIL 3(3,0)  <b>Native American Philosophy:</b> PR: PHI 2010 or C.I. Academic Native American philosophy in epistemology, political philosophy and environmental studies. <i>Even Fall.</i></p>	<p><b>PHI 3320</b> CAH-PHIL 3(3,0)  <b>Philosophy of Mind:</b> PR: PHI 2010, PSY 2012, or C.I. Recent and contemporary attempts to understand the relation of mind to body, the relation of consciousness to personhood, and the relation of psychology to neurobiology. <i>Occasional.</i></p>
<p><b>PGY 4440C</b> CAH-ART 3(2,3)  <b>Special Problems in Photography:</b> 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. <i>Occasional.</i> M&amp;S fee: \$20.00</p>	<p><b>PHI 2010</b> CAH-PHIL 3(3,0)  <b>Introduction to Philosophy:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PHI 3323</b> CAH-PHIL 3(3,0)  <b>Minds and Machines: Philosophy of Cognitive Science:</b> PR: PHI 2010 or C.I. Assumptions undergirding research in Cognitive Science. <i>Fall, Odd Spring.</i></p>
		<p><b>PHI 3451</b> CAH-PHIL 3(3,0)  <b>Philosophy of Psychology:</b> PR: Junior standing or C.I. Philosophical assumptions and foundations of major psychological movements plus other philosophically interesting issues. <i>Occasional.</i></p>

## UCF Courses and Descriptions

<p><b>PHI 3601</b> CAH-PHIL 1(1,0)  <b>Practical Wisdom:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 3750</b> CAH-PHIL 3(3,0)  <b>The Problem of Evil:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 4633</b> CAH-PHIL 3(3,0)  <b>Ethics and Biological Science:</b> 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. <i>Occasional.</i></p>
<p><b>PHI 3625</b> CAH-PHIL 3(3,0)  <b>Virtual Ethics:</b> PR: COP 3502C or DIG 2000 or C.I. Ethics of virtual worlds as contrasted to the physical world, the use of simulation, virtual environments, and modeling in philosophy, especially in ethics. <i>Occasional.</i></p>	<p><b>PHI 3790</b> CAH-PHIL 3(3,0)  <b>African Philosophy:</b> PR: Junior standing or C.I. Traditional and contemporary African philosophical thought with primary emphasis on post-colonial philosophy in sub-Saharan Africa. <i>Occasional.</i></p>	<p><b>PHI 4633H</b> CAH-PHIL 3(3,0)  <b>Honors Ethics and Biological Science:</b> PR: BSC 2010C, a course in Philosophy, and consent of Honors. Contemporary thinking on ethical issues arising from the biological sciences, including human and animal experiments, genetic engineering, and biodiversity. <i>Occasional.</i></p>
<p><b>PHI 3626</b> CAH-PHIL 3(3,0)  <b>Advanced Ethics in Science and Technology:</b> PR: COP 3502C or DIG 2000 or PHI 2647. Critical thinking applied to ethics in science and technology. <i>Fall, Spring.</i></p>	<p><b>PHI 3800</b> CAH-PHIL 3(3,0)  <b>Aesthetics:</b> PR: PHI 2010, HUM 2230, ARH 2050, or ARH 2051. An investigation into the nature of human artistic experience, with special reference to questions of form, perception, and style. <i>Occasional.</i></p>	<p><b>PHI 4690</b> CAH-PHIL 3(3,0)  <b>Ethics in Nanoscience and Nanotechnology:</b> PR: Completion of GEP or Junior standing. Ethical implications of rapid developments in nanoscience and nanotechnology. <i>Odd Fall.</i></p>
<p><b>PHI 3629</b> CAH-PHIL 3(3,0)  <b>Family Values:</b> PR: PHI 2010, PHI 2630, PHI 3670, or WST 3015. Applied ethics examining legal, religious and other cultural prescriptions related to sexuality, marriage, reproduction, child-rearing and other forms of familial relationship and caregiving. <i>Even Spring.</i></p>	<p><b>PHI 3803</b> CAH-PHIL 3(3,0)  <b>Philosophy and Creativity:</b> A companion course to PHI 3800, Aesthetics. Examines the empirical and metaphysical claims made for creativity; attempts to account for intuition, genius, and intelligence. <i>Occasional.</i></p>	<p><b>PHI 4804</b> CAH-PHIL 3(3,0)  <b>Critical Theory:</b> PR: C.I. Critical theory and cultural studies emphasizing current trends as they apply to arts in diverse media. <i>Even Fall.</i></p>
<p><b>PHI 3638</b> CAH-PHIL 3(3,0)  <b>Ethical Issues in the 21st Century:</b> PR: PHI 2010 or C.I. Applications of ethical theory and moral problem-solving to contemporary issues. <i>Occasional.</i></p>	<p><b>PHI 3805</b> CAH-PHIL 3(3,0)  <b>Contemporary Aesthetics:</b> PR: PHI 2010, HUM 2210, HUM 2230, ARH 2050 or ARH 2051. Contemporary themes and arguments about visual art in relationship to current aesthetic theories. <i>Occasional.</i></p>	<p><b>PHI 4931</b> CAH-PHIL 3(3,0)  <b>Philosophy in the News:</b> PR: PHI 2010. Changing course content. A specific topic being covered by the media will be selected for philosophical examination. Course is web enhanced. <i>Occasional.</i></p>
<p><b>PHI 3640</b> CAH-PHIL 3(3,0)  <b>Environmental Ethics:</b> PR: Junior standing. Major contemporary views in environmental ethics, including individual and holistic approaches, deep ecology, ecofeminism, and social ecology. <i>Occasional.</i></p>	<p><b>PHI 3941</b> CAH-PHIL 3(1,3)  <b>Philosophy Practicum:</b> PR: C.I. Mentor at-risk grade schoolers and evaluate such work-related concepts as justice and fairness. <i>Occasional.</i></p>	<p><b>PHI 4935</b> CAH-PHIL 3(3,0)  <b>Topics in Philosophy of Mind:</b> PR: PHI 3320, PHI 3451 or PHI 3323 or C.I. Recent debate in philosophy of mind. Variable topics. Examples: mental representation, consciousness, concepts, free will. May be repeated for credit. <i>Occasional.</i></p>
<p><b>PHI 3648</b> CAH-PHIL 3(3,0)  <b>Ethical Implications of the Human Genome Project:</b> PR: BSC 2010C and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting. <i>Occasional.</i></p>	<p><b>PHI 4221</b> CAH-PHIL 3(3,0)  <b>Philosophy of Language:</b> PR: PHI 2010 or C.I. Nature of language and the relationships between language, reality, cognition, and culture. <i>Spring.</i></p>	<p><b>PHI 4938</b> CAH-PHIL 3(3,0)  <b>Senior Research Seminar:</b> PR: Senior standing and Philosophy major. Capstone course on research, developing effective oral and written communication skills. <i>Occasional.</i></p>
<p><b>PHI 3670</b> CAH-PHIL 3(3,0)  <b>Ethical Theory:</b> 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. <i>Even Spring.</i></p>	<p><b>PHI 4300</b> CAH-PHIL 3(3,0)  <b>Theories of Knowledge:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 4951</b> CAH-PHIL 1(1,0)  <b>Portfolio:</b> PR: PHI 3083 and last semester as Philosophy major. Presentation of a representative sampling of student's best work, with appropriate revisions, including a cover narrative indicating development of philosophical knowledge and skills. Graded S/U. <i>Occasional.</i></p>
<p><b>PHI 3672</b> CAH-PHIL 3(3,0)  <b>Animal Ethics:</b> PR: PHI 2010 or C.I. Key issues and debates in the area of animal ethics, including both theoretical and applied dimensions. <i>Occasional.</i></p>	<p><b>PHI 4341</b> CAH-PHIL 3(3,0)  <b>Ways of Knowing:</b> PR: PHI 2010 or C.I. Philosophic study of approaches to knowledge, with emphasis on contributions of the knower to how things are known. <i>Fall.</i></p>	<p><b>PHI 5225</b> CAH-PHIL 3(3,0)  <b>Philosophy of Language:</b> PR: Admission to graduate certificate in Cognitive Sciences or C.I. Philosophy of the nature of language and relationships between language, reality, cognition, and culture. <i>Occasional.</i></p>
<p><b>PHI 3683</b> CAH-PHIL 3(3,0)  <b>Philosophy of Friendship:</b> 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. <i>Occasional.</i></p>	<p><b>PHI 4400</b> CAH-PHIL 3(3,0)  <b>Philosophy of Science:</b> An examination of the conceptual foundations and methodology of modern science. <i>Occasional.</i></p>	<p><b>PHI 5325</b> CAH-PHIL 3(3,0)  <b>Topics in Philosophy of Mind:</b> PR: Admission into graduate certificate program in Cognitive Sciences or C.I. Contemporary issues in philosophy of mind, including explanatory gap, and the problem of other minds. <i>Occasional.</i></p>
<p><b>PHI 3684</b> CAH-PHIL 3(3,0)  <b>Ways of Living:</b> PR: HUM 2210 or HUM 2230 or C.I. Philosophies of life and the notion of "the good life." <i>Occasional.</i></p>	<p><b>PHI 4420</b> CAH-PHIL 3(3,0)  <b>Philosophy of Social Science:</b> An examination of the objectives, methods and guiding norms of the social sciences and their role in the development of human knowledge. <i>Occasional.</i></p>	<p><b>PHI 5327</b> CAH-PHIL 3(3,0)  <b>Topics in the Cognitive Sciences:</b> PR: Admission to graduate certificate program in Cognitive Sciences or C.I. Theoretical issues and empirical studies in the cognitive sciences, including contemporary discussions of mind, brain, artificial intelligence, pathologies, behavioral capacities. <i>Fall.</i></p>
<p><b>PHI 3700</b> CAH-PHIL 3(3,0)  <b>Philosophy of Religion:</b> 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. <i>Odd Spring.</i></p>	<p><b>PHI 4500</b> CAH-PHIL 3(3,0)  <b>Metaphysics:</b> 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. <i>Occasional.</i></p>	
<p><b>PHI 3720</b> CAH-PHIL 3(3,0)  <b>Faith and Reason:</b> PR: REL 2300 or PHI 2010 or C.I. Emergence of two discrete ways of knowing: Faith and Reason. <i>Occasional.</i></p>		

PHI 5328	CAH-PHIL	3(3,0)	PHI 3783	CAH-PHIL	3(3,0)	PHT 3259	HPA-HP	2(2,0)
<b>Philosophies of Embodiment:</b> PR: Admission to graduate certificate in Cognitive Sciences or C.I. Relations among mind, body, and nature. Knowledge of self, world and others as articulated by Western philosophy, with special emphasis on embodied cognition. <i>Occasional.</i>			<b>Modernity as a Philosophical Problem:</b> PR: PHI 2010 or PHI 3640 or C.I. Modernity in the philosophies of Kant, Hegel, Nietzsche, Heidegger, Derrida, Rorty, and others. <i>Occasional.</i>			<b>Patient Care Skills:</b> CR: PHT 3259. Affective, cognitive, and psychomotor skills applied to patient care. Diversity issues discussed. Basic skills of patient care; transfers, mobility skills, draping, gait training. <i>Occasional.</i>		
PHI 5329	CAH-PHIL	3(3,0)	PHI 3786	CAH-PHIL	3(3,0)	PHT 3259L	HPA-HP	1(0,2)
<b>Philosophy of Neuroscience:</b> PR: Admission to graduate certificate in Cognitive Sciences or C.I. Neurophilosophy, including discussion of promises and limitations of neuroscience for understanding of the mind. <i>Occasional.</i>			<b>Existentialism:</b> Study of existentialist analysis and criticism of the human situation as found in the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus. <i>Odd Fall.</i>			<b>Patient Care Skills Lab:</b> CR: PHT 3259. Lab course covering basic skills of patient care; transfers, mobility skills, draping, gait training. <i>Occasional.</i>		
PHI 5340	CAH-PHIL	3(3,0)	PHI 4782	CAH-PHIL	3(3,0)	PHT 3602	HPA-HP	2(2,0)
<b>Research Methods in the Cognitive Sciences:</b> PR: Admission to graduate certificate program in Cognitive Sciences or C.I. Interdisciplinary research methods in the cognitive sciences. <i>Spring.</i>			<b>Phenomenology:</b> PR: Junior standing and three Philosophy courses. The philosophy developed in the 20th century in the writings of Husserl, Heidegger, Sartre, Merleau-Ponty, De Beauvoir and Derrida. <i>Odd Spring.</i>			<b>Introduction to Clinical Research:</b> PR: STA 2023. Methods of research applied to clinical environment of physical therapy. Coverage of the language, logic, design and analysis of clinical research. <i>Occasional.</i>		
PHI 5627	CAH-PHIL	3(3,0)	PHT 3069	HPA-HP	1(1,0)	PHT 4119C	HPA-HP	4(3,2)
<b>Theoretical and Applied Ethics:</b> PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, or Graduate standing or CI. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content. <i>Fall.</i>			<b>Physical Assessment:</b> CR: PHT 3069L. Extensive theory and practice in the examination of the patient. Incorporates a systems approach, utilizing screening and patient problem solving. <i>Occasional.</i>			<b>Clinical Gross Anatomy:</b> PR: ZOO 3733C and C.I. Review of human anatomical systems using cadavers and emphasizing clinical applications and pathologies. <i>Fall.</i> M&S fee: \$45.00		
PHI 5665	CAH-PHIL	3(3,0)	PHT 3069L	HPA-HP	2(0,4)	PHT 4222	HPA-HP	2(2,0)
<b>Knowledge, Responsibility, and Society:</b> PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4931 or Graduate standing. A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content. <i>Occasional.</i>			<b>Physical Assessment Lab:</b> PR: PHT 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient. <i>Occasional.</i>			<b>Therapeutic Exercise I:</b> PR: PHT 3155; PHT 3155L. CR: PHT 4222L. Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction. <i>Occasional.</i>		
PHI 5687	CAH-PHIL	3(3,0)	PHT 3112	HPA-HP	2(2,0)	PHT 4222L	HPA-HP	1(0,2)
<b>Ethics in Science and Technology:</b> PR: Graduate standing or C.I. The relationship between ethics and the pursuit and application of human knowledge, emphasizing the responsibility of scientists to society. <i>Occasional.</i>			<b>Gross Anatomy/Neuroscience I:</b> PR: Admission into the Physical Therapy program. CR: PHT 3112L. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper lower extremities. Regional cadaver dissection. <i>Occasional.</i>			<b>Therapeutic Exercise I Lab:</b> CR: PHT 4222. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. <i>Occasional.</i>		
PHM 3100	CAH-PHIL	3(3,0)	PHT 3112L	HPA-HP	3(0,6)	PHT 4230	HPA-HP	2(2,0)
<b>Freedom and Justice:</b> 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. <i>Occasional.</i>			<b>Gross Anatomy/Neuroscience I Lab:</b> CR: PHT 3112. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. <i>Occasional.</i>			<b>Therapeutic Exercise II:</b> PR: PHT 4222; PHT 4222L. CR: PHT 4230L. Exploration of the various therapeutic exercise modalities, and their application to the rehabilitation course treatment. <i>Occasional.</i>		
PHM 3123	CAH-PHIL	3(3,0)	PHT 3113	HPA-HP	2(2,0)	PHT 4230L	HPA-HP	1(0,2)
<b>Feminist Theories:</b> PR: ENC 1102. Contemporary issues and perspectives in feminist theory and their relation to divergent feminist practices. <i>Even Fall.</i>			<b>Gross Anatomy/Neuroscience II:</b> PR: PHT 3112; PHT 3112L. CR: PHT 3113L. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. <i>Occasional.</i>			<b>Therapeutic Exercise II Lab:</b> CR: PHT 4230. Lab course emphasizing use of various therapeutic exercise modalities. <i>Occasional.</i>		
PHM 3401	CAH-PHIL	3(3,0)	PHT 3113L	HPA-HP	3(0,6)	PHT 4307	HPA-HP	3(3,0)
<b>Philosophy of Law:</b> PR: PHI 2010, PHI 2630, PHI 3670, or POS 2041. Study of the nature of, and justifications for, law and punishment. Examination of the concepts of legal personhood, rights and responsibilities. <i>Spring.</i>			<b>Gross Anatomy/Neuroscience II Lab:</b> CR: PHT 3113. Directed laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. <i>Occasional.</i>			<b>Pathology/Pharmacology:</b> PR: PHT 3113. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice. <i>Occasional.</i>		
PHM 4031	CAH-PHIL	3(3,0)	PHT 3122	HPA-HP	3(3,0)	PHT 4308	HPA-HP	2(2,0)
<b>Environmental Philosophy:</b> PR: PHI 3640, PHI 2630, or C.I. Major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. <i>Occasional.</i>			<b>Clinical Kinesiology:</b> CR: PHT 3122L. Mechanical aspects of human movement, including joint mechanics of the upper and lower extremity, the vertebral column, and tissue mechanics of relevant human tissues. Coordinated with cadaver dissection. <i>Occasional.</i>			<b>Medical Science and Pharmacology II:</b> The impact on movement and posture of various orthopedic and neurological disorders; drugs used in their management. Relates neuropathology and orthopedic pathology to the study of movement. <i>Occasional.</i>		
PHM 5035	CAH-PHIL	3(3,0)	PHT 3122L	HPA-HP	3(0,6)	PHT 4610	HPA-HP	2(1,3)
<b>Environmental Philosophy:</b> PR: PHI 3640, PHI 2630, graduate status or senior standing, or C.I. This course will provide an in-depth examination of the major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. <i>Occasional.</i>			<b>Clinical Kinesiology Lab:</b> CR: PHT 3122. Lab course investigating the mechanical aspects of human movement. <i>Occasional.</i>			<b>Clinical Research Problems I:</b> PR: Enrollment in sequence in the Physical Therapy program. Exploration of clinical problem-solving, decision making process. Critical review of relevant medical literature and supervised patient evaluation sessions. <i>Occasional.</i>		
PHP 3781	CAH-PHIL	3(3,0)	PHT 3155	HPA-HP	2(2,0)	PHT 5003	HPA-HP	2(2,0)
<b>African-American Philosophy:</b> PR: PHI 2010. Analysis of contemporary African-American philosophy and overview of Black philosophy from slavery era writings to the present. <i>Occasional.</i>			<b>Physiology of Therapeutic Exercise:</b> PR: PHT 3259. CR: PHT 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems. <i>Occasional.</i>			<b>Foundations of Physical Therapy I:</b> PR: Admission to the PT program. Introduction to the profession of physical therapy. <i>Occasional.</i>		
			PHT 3155L	HPA-HP	2(0,4)	PHT 5005	HPA-HP	2(2,0)
			<b>Physiology of Therapeutic Exercise Lab:</b> CR: PHT 3155. Lab course emphasizing the clinical application of exercise physiology. <i>Occasional.</i>			<b>Foundations of Physical Therapy II:</b> PR: Foundations of Physical Therapy I. Psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching. <i>Occasional.</i>		

## UCF Courses and Descriptions

PHT 5115	HPA-HP	2(2,0)	PHT 5241	HPA-HP	2(2,0)	PHY 2048L	COS-PHYS	1(0,3)
Gross Anatomy/Neuroscience I: PR: Admission to PT program. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper and lower extremities. Regional cadaver dissection. <i>Occasional</i> .			Therapeutic Exercises I: PR: CR Therapeutic Exercises I Lab. Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction. <i>Spring</i> .			Physics Laboratory for Engineers and Scientists I: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2048. <i>Fall, Spring</i> . M&S fee: \$15.00		
PHT 5115L	HPA-HP	2(0,4)	PHT 5241L	HPA-HP	2(0,4)	PHY 2048L	COS-PHYS	1(0,3)
Gross Anatomy/Neuroscience I Lab: PR: Admission to PT program. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. <i>Occasional</i> . M&S fee: \$45.00			Therapeutic Exercise Lab I: PR: Therapeutic Exercise I. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. <i>Spring</i> . M&S fee: \$15.00			Honors Physics Laboratory for Engineers and Scientists I: PR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048L with honors-level content. <i>Occasional</i> .		
PHT 5118	HPA-HP	2(2,0)	PHT 5260	HPA-HP	2(2,0)	PHY 2049	COS-PHYS	3(3,0)
Gross Anatomy/Neuroscience II: PR: PR Gross Anatomy/Neuroscience I and Lab; CR Gross Anatomy Neuroscience II Lab. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. <i>Fall</i> .			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. <i>Fall</i> .			Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics. <i>Fall, Spring</i> .		
PHT 5118L	HPA-HP	2(0,4)	PHT 5260L	HPA-HP	1(0,2)	PHY 2049H	COS-PHYS	3(3,0)
Gross Anatomy/Neuroscience II Lab: PR: Gross Anatomy Neuroscience I and Lab; CR Gross Anatomy Neuroscience II. Directed Laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. <i>Fall</i> . M&S fee: \$45.00			Patient Care Skills Lab: CR: Patient Care Skills. Skills of patient care, transfers, mobility skills. <i>Fall</i> . M&S fee: \$25.00			Honors Physics for Engineers and Scientists II: PR: Permission of Honors and PHY 2048H, MAC 2312. Same as PHY 2049 with honors-level content. <i>Occasional</i> .		
PHT 5125	HPA-HP	2(2,0)	PHT 5306	HPA-HP	2(2,0)	PHY 2049L	COS-PHYS	1(0,3)
Clinical Kinesiology: CR: PHT 5125L. Investigates the mechanical aspects of human movement, joint mechanics of the upper and lower extremity, the vertebral column and tissue mechanics of relevant human tissues. <i>Occasional</i> . M&S fee: \$15.00			Pathology/Pharmacology: PR: Admission to PT program. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they related to medical management in physical therapy practice. <i>Occasional</i> .			Physics Laboratory for Engineers and Scientists II: CR: PHY 2049. Laboratory experiments covering selected topics in physics related to PHY 2049. <i>Fall, Spring</i> . M&S fee: \$15.00		
PHT 5125L	HPA-HP	2(0,2)	PHT 5411	HPA-HP	3(3,0)	PHY 2053C	COS-PHYS	4(3,3)
Clinical Kinesiology Lab: CR: PHT 5125. Concerned with the evaluation and practical application of aspects of human movement, joint mechanics of the upper and lower extremity, vertebral column and soft tissues. <i>Occasional</i> . M&S fee: \$15.00			Foundations of Physical Therapy II: This course emphasized the psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching. <i>Occasional</i> .			College Physics I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. Mechanics, waves, thermodynamics. <i>Fall, Spring</i> . M&S fee: \$15.00		
PHT 5156	HPA-HP	2(2,0)	PHT 5411	HPA-HP	3(3,0)	PHY 2054C	COS-PHYS	4(3,3)
Physiology of Therapeutic Exercise: PR: Admission to PT program. Exercise physiology investigates the physiological responses and adaptations to human movement including cardiovascular and pulmonary. <i>Occasional</i> .			Foundations of Physical Therapy II: This course emphasized the psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching. <i>Occasional</i> .			College Physics II: PR: PHY 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity. <i>Fall, Spring</i> . M&S fee: \$15.00		
PHT 5156L	HPA-HP	2(0,4)	PHT 5718	HPA-HP	2(2,0)	PHY 2090	COS-PHYS	0(0,1.5)
Physiology of Therapeutic Exercise Lab: CR: PHT 5156. Lab course emphasizing the clinical application of exercise physiology. <i>Occasional</i> . M&S fee: \$15.00			Neurological Physical Therapy: PR: CR Neurological Physical Therapy Lab. Analysis of selected neuromotor theories and their clinical applications. Examinations and interventions for the evaluation and treatment of neurological patients presented. <i>Occasional</i> .			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. <i>Occasional</i> .		
PHT 5218	HPA-HP	2(2,0)	PHT 5718L	HPA-HP	1(0,2)	PHY 3101	COS-PHYS	3(3,0)
Theories and Procedures I: PR: CR Theories and Procedures I Lab. Theories of physical agents, heat, light, cold, water, sound, and massage; problem solving rationale and selection of interventions for inflammation, pain, edema, and weakness. <i>Spring</i> . M&S fee: \$15.00			Neurological Physical Therapy Lab: PR: CR Neurological Physical Therapy. Lab Course emphasizing the clinical application of selected neuromotor theories. <i>Occasional</i> . M&S fee: \$15.00			Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics. <i>Fall, Spring</i> .		
PHT 5218L	HPA-HP	1(0,2)	PHT 5722C	HPA-HP	2(2,1)	PHY 3110H	COS-PHYS	3(3,0)
Theories and Procedures I lab: PR: CR Theories and Procedures I. Lab course on the clinical applications of heat, light, cold, water, sound, and massage. <i>Spring</i> . M&S fee: \$15.00			Physical Therapy Integration I: PR: Admission to PT program. Problem solving approach to selected dysfunctions, including burns and open wounds, and selected diagnostic procedures and therapy interventions. <i>Occasional</i> . M&S fee: \$15.00			Honors Physics for Engineers and Scientists III: PR: Permission of Honors and PHY 2049 or PHY 2049H. Same as PHY 3101 with honors-level content. <i>Occasional</i> .		
PHT 5240	HPA-HP	1(1,0)	PHY 5805	HPA-HP	1(0,4)	PHY 3220	COS-PHYS	3(3,0)
Physical Assessment: PR: Physical Assessment Lab. Extensive theory and practice in the examination of the patient. Incorporate a systems approach, utilizing screening, and patient problem solving. <i>Fall</i> .			Clinical Education I: PR: Admission to PT program. Full-time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed. Graded S/U. <i>Spring</i> .			Mechanics I: PR: PHY 2048 or PHY 2048H, MAP 2302. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton's equations. <i>Spring</i> .		
PHT 5240L	HPA-HP	2(0,4)	PHY 2014C	COS-PHYS	3(2,2)	PHY 3323	COS-PHYS	3(3,0)
Physical Assessment Lab: PR: CR Physical Assessment. Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient. <i>Fall</i> . M&S fee: \$25.00			Physics for Teachers I: PR: C.I. "Hands-on" lecture-laboratory course. Statics, simple machines, density, solar energy, heat, weather, waves, optical reflections, naked eye astronomy. <i>Occasional</i> .			Electricity and Magnetism I: PR: PHY 2049, MAP 2302. Electrostatics, magnetostatics, Lorentz force current electricity, Maxwell's equations. <i>Fall</i> .		
			PHY 2048	COS-PHYS	3(3,0)	PHY 3513	COS-PHYS	3(3,0)
			Physics for Engineers & Scientists I: PR: MAC 2311 or equivalent. Mechanics, Thermodynamics, fluids. <i>Fall, Spring</i> .			Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics. <i>Fall</i> .		
			PHY 2048H	COS-PHYS	3(3,0)	PHY 3722C	COS-PHYS	3(1,5)
			Honors Physics for Engineers and Scientists I: PR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048 with honors-level content. <i>Occasional</i> .			Physics Laboratory-Electronics: PR: PHY 2049, PHY 2049L. State-of-the-art electronics, transducers, operational amplifiers, phase sensitive circuits, active filters. <i>Occasional</i> . M&S fee: \$15.00		

PHY 3752C	COS-PHYS	3(1,5)	PHY 5200C	COS-PHYS	1(0,5,1,5)	PHY 5846C	COS-PHYS	3(3,3)
<b>Physics of Scientific Instruments:</b> PR: PHY 3101 or C.I. Applications, functions and operation of electronic instruments. <i>Occasional</i> . M&S fee: \$12.00			<b>Newtonian Mechanics for Teachers:</b> PR: Graduate status or senior standing or C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics. <i>Occasional</i> .			<b>Methods of Experimental Physics:</b> 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. <i>Fall, Spring</i> .		
PHY 3802L	COS-PHYS	3(1,5)	PHY 5300C	COS-PHYS	1(0,5,1,5)	PHY 5933	COS-PHYS	3(3,0)
<b>Intermediate Physics Laboratory:</b> PR: PHY 3101 or C.I. Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics. May be repeated for credit. <i>Fall</i> .			<b>Electricity for Teachers:</b> PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements. <i>Occasional</i> .			<b>Selected topics in biophysics of macromolecules:</b> 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. <i>Occasional</i> .		
PHY 4324	COS-PHYS	3(3,0)	PHY 5302C	COS-PHYS	1(0,5,1,5)	PHZ 3113	COS-PHYS	3(3,0)
<b>Electricity and Magnetism II:</b> PR: PHY 3323. Dielectrics, magnetic materials, electromagnetic waves, reflection, complex impedance, static solutions to Laplace's Equation, radiation from an accelerated charge and antennae, special relativity. <i>Spring</i> .			<b>Electromagnetism for Teachers:</b> 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. <i>Occasional</i> .			<b>Introduction to Theoretical Methods of Physics:</b> PR: MAP 2302. Analytical techniques to solve problems of physics. <i>Spring</i> .		
PHY 4424	COS-PHYS	3(3,0)	PHY 5346	COS-PHYS	3(3,0)	PHZ 3151	COS-PHYS	3(3,0)
<b>Optics:</b> PR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography. <i>Occasional</i> .			<b>Electrodynamics I:</b> 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. <i>Fall</i> .			<b>Computer Methods in Physics:</b> PR: PHY 3101. Non-analytical problems in physics and astronomy solved by approximation with computer assistance. <i>Occasional</i> .		
PHY 4424L	COS-PHYS	3(0,3)	PHY 5401C	COS-PHYS	1(0,5,1,5)	PHZ 3422	COS-PHYS	3(3,0)
<b>Optical Physics Laboratory:</b> A laboratory course on geometric optics, interference, diffraction, materials and modern optics. <i>Occasional</i> .			<b>Optics for Teachers:</b> PR: Graduate status or senior standing or C.I. Geometrical and physical optics, spectrometers and lasers. <i>Occasional</i> .			<b>Nanophysics:</b> PR: PHY 2049 or C.I. Physical phenomena occurring in nanometer-length scale, including nano colloids, and nano transport. <i>Occasional</i> .		
PHY 4445	COS-PHYS	3(3,0)	PHY 5455	COS-PHYS	3(3,0)	PHZ 5156	COS-PHYS	3(3,0)
<b>Lasers:</b> PR: PHY 3101, MAP 2302, PHY 4424, or C.I. Principles of laser gain media, properties of resonators and modes, and description of specific laser systems. <i>Occasional</i> .			<b>Modern X-Ray Science:</b> 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. <i>Occasional</i> .			<b>Computational Physics:</b> PR: PHZ 3151 or C.I. Computational methods applied to the solution of problems in many branches of physics. May be repeated for credit. <i>Fall</i> .		
PHY 4604	COS-PHYS	3(3,0)	PHY 5465C	COS-PHYS	1(0,5,1,5)	PHZ 5304	COS-PHYS	3(3,0)
<b>Wave Mechanics I:</b> PR: PHZ 3113. Postulates of Quantum Mechanics. Operators and Observables, Schroedinger equation with simple applications. <i>Fall</i> .			<b>Wave Motion for Teachers:</b> PR: Graduate status or senior standing or C.I. Water waves, waves on strings, sound and vibrations. <i>Occasional</i> .			<b>Nuclear and Particle Physics:</b> PR: PHY 4604 or equivalent, and graduate status or senior standing or C.I. Particles and nuclei, symmetries and conservation laws, interactions, models. <i>Occasional</i> .		
PHY 4605	COS-PHYS	3(3,0)	PHY 5500C	COS-PHYS	1(0,5,1,5)	PHZ 5405	COS-PHYS	3(3,0)
<b>Wave Mechanics II:</b> PR: PHY 4604. Further applications of quantum mechanics, perturbation theory, scattering theory, identical particles. <i>Spring</i> .			<b>Thermal Physics for Teachers:</b> PR: Graduate status or senior standing or C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather. <i>Occasional</i> .			<b>Condensed Matter Physics:</b> 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. <i>Occasional</i> .		
PHY 4803L	COS-PHYS	3(1,5)	PHY 5524	COS-PHYS	3(3,0)	PHZ 5425C	COS-PHYS	3(3,3)
<b>Advanced Physics Laboratory:</b> PR: PHY 3802L. Experiments in optics, electronics, nuclear and solid state physics. Emphasis on design, data, and scientific writing. <i>Occasional</i> . M&S fee: \$15.00			<b>Statistical Physics:</b> PR: PHY 3513, STA 3032, and graduate status or senior standing or C.I. A study of physical concepts and methods appropriate for the description of systems involving many particles. Ensemble theory, partition functions. Maxwell Boltzmann, Bose-Einstein, Fermi-Dirac statistics. <i>Spring</i> .			<b>Electron Solid Interactions:</b> PR: Undergraduate senior or graduate status or C.I. The physics and applications of electron interactions with solids. Classroom and hands-on laboratory content. <i>Occasional</i> .		
PHY 4942C	COS-PHYS	3(2,3)	PHY 5606	COS-PHYS	3(3,0)	PHZ 5432	COS-PHYS	3(3,0)
<b>Practicum in Physics:</b> PR: C.I. Physics laboratories and demonstrations, and the study of recent research on the learning of physics. <i>Occasional</i> .			<b>Quantum Mechanics I:</b> 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 Schrodinger equation, matrix formulation, and time independent perturbation theory. <i>Fall</i> .			<b>Introduction to Soft Condensed Matter Physics:</b> PR: PHY 3513 or C.I. Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics. Graded S/U. <i>Even Fall</i> .		
PHY 5015C	COS-PHYS	3(2,2)	PHY 5650	COS-PHYS	3(3,0)	PHZ 5505	COS-PHYS	3(3,0)
<b>Physics for Teachers II:</b> PR: Graduate status or senior standing or C.I. "Hands-on" lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation. <i>Occasional</i> .			<b>Introduction to Quantum Computation:</b> PR: C.I. Theoretical fundamentals and physical implementations of quantum computation for science and engineering students. <i>Occasional</i> .			<b>Plasma Physics:</b> 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. <i>Occasional</i> .		
PHY 5100	COS-PHYS	1(1,0)	PHY 5817L	COS-PHYS	1(0,3)	PHZ 5600	COS-PHYS	1(1,0)
<b>Topics in Contemporary Physics for Teachers:</b> PR: Graduate status or senior standing or C.I. The study of recent findings in a selected area such as particle physics, surface physics, planetary atmospheres, lasers, geophysics, etc. May be repeated for credit. <i>Occasional</i> .			<b>Building Physics Apparatus:</b> PR: Graduate standing or senior standing and C.I. Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work. <i>Occasional</i> . M&S fee: \$45.00			<b>Special Relativity for Teachers:</b> PR: Graduate status or senior standing or C.I. Length contraction, time dilation, simultaneity, conservation of mass-energy, conservation of momentum, Compton scattering. <i>Occasional</i> .		
PHY 5140C	COS-PHYS	3(3,2)						
<b>Ion-Solid Interactions:</b> PR: PHY 4604 or PHY 4324, graduate status or senior standing, or C.I. Physical principals and related scientific and technological applications of ion-solid interactions. <i>Odd Spring</i> .								

## UCF Courses and Descriptions

<p><b>PLA 3013</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Law and the Legal System:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4423</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>The Law of Contracts:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4732</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Advanced Legal Applications Computer Software:</b> PR: PLA 3013 or CI. Course will acquaint students with contemporary computer software applications used to satisfy the demands of today's law firms and law-related fields. <i>Occasional.</i></p>
<p><b>PLA 3104</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Legal Research:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4433</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Florida Partnerships and Corporations:</b> Statutory requirements of Florida partnerships and corporations; creation and dissolution of business organizations, responsibilities of officers and basic rights of stockholders. <i>Fall, Spring.</i></p>	<p><b>PLA 4763</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Law Office Practices:</b> PR: PLA 3013. Organization, operation and management of law office. Interviewing techniques and practical application of work that is done in a law office. <i>Occasional.</i></p>
<p><b>PLA 3155</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Legal Writing:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4460</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Bankruptcy Law:</b> 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. <i>Occasional.</i></p>	<p><b>PLA 4800</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Domestic Relations Law:</b> PR: PLA 3013 and PLA 3610, or C.I. An in-depth study of family law focusing on divorce, custody, child support, alimony, adoption and other related matters with an emphasis on Florida law. <i>Fall, Spring.</i></p>
<p><b>PLA 3201</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Civil Practice and Procedure:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4472</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Employment Discrimination Law:</b> 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. <i>Occasional.</i></p>	<p><b>PLA 4813</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Juvenile Law and Procedure:</b> 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. <i>Occasional.</i></p>
<p><b>PLA 3201H</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Civil practice and Procedure - Honors:</b> PR: Permission of Honors and PLA 3013 or CI. Same as PLA 3201 with honors level content. <i>Occasional.</i></p>	<p><b>PLA 4483</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Administrative Law:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4823</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Sports Law:</b> PR: PLA 3013 or C.I. Introduction to the legal issues and regulation of sports, focusing on torts, contracts, agency and constitutional law as applied to athletes. <i>Occasional.</i></p>
<p><b>PLA 3273</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>The Law of Torts:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4530</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Legal Issues of the Elderly:</b> PR: PLA 3013. Legal concerns faced by older Americans as they plan their later years and seek to maximize their personal autonomy. <i>Occasional.</i></p>	<p><b>PLA 4824</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Legal Issues for Athletic Trainers:</b> PR: CI. Analysis of the legal issues affecting athletic trainers. <i>Occasional.</i></p>
<p><b>PLA 3304</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Criminal Law:</b> Basic concepts of substantive criminal law. The course includes examination of elements of major crimes, criminal responsibility, legal defenses, and parties to crime. <i>Fall, Spring.</i></p>	<p><b>PLA 4583</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Cyber Law I:</b> PR: PLA 3013. Analysis of copyright, trademark, and patent issues in cyberspace. <i>Occasional.</i></p>	<p><b>PLA 4825</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Entertainment Law:</b> PR: PLA 3013 or CI. Introduction to the control and regulation of the entertainment industry and the associated legal issues. <i>Occasional.</i></p>
<p><b>PLA 3308</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Criminal Procedure:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4583H</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Honors Cyber Law:</b> PR: Honors GEP completion or consent of The Burnett Honors College. Copyright, trademark, patent issues in cyberspace; online dispute resolution, privacy, and free speech topics. With Honors Content. <i>Occasional.</i></p>	<p><b>PLA 4826</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Advanced Entertainment Law:</b> PR: PLA 4825. Legal complexities and regulations pertaining to the Entertainment Industry at an advanced level. <i>Occasional.</i></p>
<p><b>PLA 3610</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Property and Real Estate Law:</b> PR: PLA 3013. Study of the law of real and personal property; real estate transactions and conveyances; closing procedures and title problems. <i>Fall, Spring.</i></p>	<p><b>PLA 4601</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Estates and Trusts:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4830</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>World Legal Systems:</b> PR: PLA 3013 or equivalent. An examination of various legal traditions and systems of the World. Substantive and procedural laws will be examined. <i>Occasional.</i></p>
<p><b>PLA 4020</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Law and Society:</b> Examination of the relationship between law and American society including the impact on the legal system and legal profession of major social movements. <i>Occasional.</i></p>	<p><b>PLA 4602</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Estate Administration:</b> PR: PLA 4601. Study of the laws and procedures applicable to administration of estates. <i>Occasional.</i></p>	<p><b>PLA 4910</b>      <b>HPA-CJ/LS</b>      <b>3(4,0)</b>  <b>Trial Advocacy:</b> PR: PLA 3013 or CI. Analysis of the entire litigation process from the initial client interview through the appellate stage, and development of oral advocacy skills. <i>Fall, Spring.</i></p>
<p><b>PLA 4223</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Advanced Trial Advocacy:</b> 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. <i>Occasional.</i></p>	<p><b>PLA 4631</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Land Use and Environmental Law:</b> 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. <i>Occasional.</i></p>	<p><b>PLA 4935</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Capstone: Legal Issues:</b> PR: senior status, PLA 3155, Legal Studies major. The legal and socio-legal analysis of issues that require students to synthesize their legal studies education. Course will assist students entering employment or graduate education. <i>Fall, Spring.</i></p>
<p><b>PLA 4240</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Negotiation Alternatives in Law:</b> PR: PLA 3013/C.I. Theories and skills involved in negotiation, mediation and other dispute resolutions processes. <i>Occasional.</i></p>	<p><b>PLA 4700</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Professional Ethics and Liability:</b> PR: PLA 3013. Ethical responsibilities of professionals. Canons of legal ethics, liability for professional malpractice. <i>Fall, Spring.</i></p>	<p><b>PLA 5587</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Current Issues in Cyberlaw:</b> PR: Graduate standing or C.I. Advanced examination and discussion of free speech, copyright, trademark, patent and privacy issues in the online environment through interactive class discussions, online discussions, postings, case study reviews, and legal research projects. <i>Occasional.</i></p>
<p><b>PLA 4263</b>      <b>HPA-CJ/LS</b>      <b>3(3,0)</b>  <b>Evidence:</b> 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. <i>Fall, Spring.</i></p>	<p><b>PLA 4710</b>      <b>HPA-CJ/LS</b>      <b>1(1,0)</b>  <b>Careers in Legal Studies:</b> PR: Major in Legal Studies or C.I. Applications of Legal Studies. Students will explore options in legal studies, professional development, and ethics. Graded S/U. <i>Occasional.</i></p>	<p><b>PLA 5937</b>      <b>HPA-CJ/LS</b>      <b>3(1,2)</b>  <b>Seminar in Contemporary Legal Problems:</b> PR: C.I. Analysis of current trends in legislation and court decisions and their significance to American society. <i>Occasional.</i></p>



## UCF Courses and Descriptions

<b>POR 1120</b> CAH-LANG 4(4,1) <b>Elementary Portuguese Language and Civilization I:</b> 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. <i>Fall.</i>	<b>POS 3253</b> COS-POLS 3(3,0) <b>Contemporary Revolution and Political Violence:</b> Theories and cases of revolutionary change and political violence in the contemporary world. <i>Occasional.</i>	<b>POS 4204</b> COS-POLS 3(3,0) <b>Political Behavior:</b> PR: POS 2041 or C.I. Mass political behavior, concentrating on voting and participation, primarily in the United States. <i>Occasional.</i>
<b>POR 1121</b> CAH-LANG 4(4,1) <b>Elementary Portuguese Language and Civilization II:</b> PR: POR 1120 or C.I. Continuation of POR 1120. The course emphasizes the four major language skills: reading, writing, listening, and speaking. <i>Spring.</i>	<b>POS 3258</b> COS-POLS 3(3,0) <b>Politics in Film:</b> PR: POS 2041 or C.I. The influence of motion pictures on popular understanding of American and international politics. <i>Even Fall.</i>	<b>POS 4206</b> COS-POLS 3(3,0) <b>Political Psychology:</b> 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. <i>Occasional.</i>
<b>POR 3140</b> CAH-LANG 3(3,0) <b>Accelerated Portuguese for Speakers of Romance Languages:</b> PR: FRE 2201, or ITA 2201, or SPN 2201, or course equivalent. Accelerated Portuguese for proficient speakers of Romance Languages. It is expected that students have no prior knowledge of Portuguese. <i>Occasional.</i>	<b>POS 3273</b> COS-POLS 3(3,0) <b>Voting and Elections:</b> Theoretical and substantive inquiry into U.S. electoral system; includes focus on voter behavior as well as national and state electoral systems. <i>Occasional.</i>	<b>POS 4246</b> COS-POLS 3(3,0) <b>Political Socialization:</b> 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. <i>Occasional.</i>
<b>POS 2041</b> COS-POLS 3(3,0) <b>American National Government:</b> A study of the dynamics of American national government, including its structure, organization, powers, and procedures. <i>Fall, Spring.</i>	<b>POS 3413</b> COS-POLS 3(3,0) <b>The American Presidency:</b> PR: POS 2041 or C.I. Examination of historical and contemporary role of the presidency, including the presidential selection process and the office's evolution in status, powers, administrative responsibilities, leadership, and decision-making. <i>Occasional.</i>	<b>POS 4284</b> COS-POLS 3(3,0) <b>Judicial Process and Politics:</b> Study of the formal and informal judicial process. Legal culture, bureaucratic model, judicial recruitment and outputs, comparative judicial behavior. <i>Fall, Odd Spring.</i>
<b>POS 2041H</b> COS-POLS 3(3,0) <b>Honors American National Government:</b> PR: Permission of Honors. Same as POS 2041 with honors-level content. <i>Occasional.</i>	<b>POS 3424</b> COS-POLS 3(3,0) <b>Congress and the Legislative Process:</b> 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. <i>Fall.</i>	<b>POS 4412</b> COS-POLS 3(3,0) <b>Presidential Campaigning:</b> PR: C.I. Introduces the process of candidate selection, convention behavior, actual campaign process and the transition of power. <i>Occasional.</i>
<b>POS 3122</b> COS-POLS 3(3,0) <b>State Government and Public Policy:</b> PR: POS 2041 or C.I. A comparative study of American state governments, political processes, and public policies, with emphasis on Florida. <i>Spring.</i>	<b>POS 3443</b> COS-POLS 3(3,0) <b>Political Parties and Processes:</b> 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. <i>Occasional.</i>	<b>POS 4603</b> COS-POLS 3(3,0) <b>American Constitutional Law:</b> PR: POS 2041 or C.I. Development of American federalism and national power, commerce clause, and nationalization of the economy. <i>Fall.</i>
<b>POS 3122H</b> COS-POLS 3(3,0) <b>Honors State Government and Public Policy:</b> 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. <i>Occasional.</i>	<b>POS 3463</b> COS-POLS 3(3,0) <b>Interest Groups:</b> 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. <i>Occasional.</i>	<b>POS 4604</b> COS-POLS 3(3,0) <b>American Constitutional Law II:</b> PR: POS 2041 or C.I. Development of civil liberties and civil rights in the American federal system. <i>Spring.</i>
<b>POS 3173</b> COS-POLS 3(3,0) <b>Southern Politics:</b> 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. <i>Spring.</i>	<b>POS 3627</b> COS-POLS 3(3,0) <b>Cultural Pluralism and Law:</b> PR: POS 2041. A case law approach to the legal and constitutional aspects of historical and current issues facing minorities in the U.S. <i>Occasional.</i>	<b>POS 4622</b> COS-POLS 3(3,0) <b>Politics and Civil Rights:</b> PR: Junior standing or C.I. Examination of civil rights issues in the context of political behavior, political institutions and public policy since 1865. <i>Occasional.</i>
<b>POS 3182</b> COS-POLS 3(3,0) <b>Florida Politics:</b> PR: POS 2041 or C.I. Examines the foundations of Florida government and political behavior, political institutions, and public policy. <i>Occasional.</i>	<b>POS 3703</b> COS-POLS 3(3,0) <b>Scope and Methods of Political Science:</b> PR: Junior standing or C.I. The scope and methodology of political analysis. Extensive examination of the discipline, research design and methodology. <i>Fall, Spring.</i>	<b>POS 4742</b> COS-POLS 3(3,0) <b>Geographic Information Systems for the Political Scientist:</b> PR: POS 2041. Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems (GIS) for political science research. <i>Occasional.</i>
<b>POS 3233</b> COS-POLS 3(3,0) <b>Public Opinion:</b> 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. <i>Fall.</i>	<b>POS 3949</b> COS-POLS 0(0,8) <b>Cooperative Education in Political Science:</b> PR: Departmental permission required before registering. Cooperative education experience in political science. May be repeated. Graded S/U. <i>Occasional.</i>	<b>POS 4941L</b> COS-POLS 3-9(0,3-9) <b>Political Science Internship:</b> 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. <i>Occasional.</i>
<b>POS 3235</b> COS-POLS 3(3,0) <b>Mass Media and Politics:</b> PR: POS 2041 or C.I. Influence of media on campaigns, public officials, public opinion, the definition of political news, and selected public policies. <i>Occasional.</i>	<b>POS 4074</b> COS-POLS 3(3,0) <b>Latino Politics:</b> PR: POS 2041 or C.I. Political characteristics of the Latino community in the United States and its impact on U.S. national and international politics and policies. <i>Odd Fall.</i>	<b>POT 3204</b> COS-POLS 3(3,0) <b>American Political Thought:</b> From its sources to the 20th century, including liberalism, puritanism, the Federalist, the rise of industrialism, resulting social movements, modern variations. <i>Odd Fall.</i>
<b>POS 3235H</b> COS-POLS 3(3,0) <b>Honors Mass Media and Politics:</b> 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. <i>Occasional.</i>	<b>POS 4142</b> COS-POLS 3(3,0) <b>Metropolitan Politics:</b> Analysis of political patterns, processes, and issues in American communities. Intergovernmental relations and structural and political arrangements in the existing and emerging metropolitan areas. <i>Occasional.</i>	<b>POT 3302</b> COS-POLS 3(3,0) <b>Modern Political Ideologies:</b> A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism. <i>Spring.</i>
		<b>POT 4003</b> COS-POLS 3(3,0) <b>Political Theory:</b> PR: POS 2041 or C.I. Examination of various normative approaches to the study of political science, stressing contemporary developments in the field. <i>Occasional.</i>

## UCF Courses and Descriptions

POT 4025	COS-POLS	3(3,0)	PPE 5055	COS-PSYCH	3(3,0)	PSY 2023	COS-PSYCH	1(1,0)
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. <i>Occasional.</i>			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. <i>Occasional.</i>			Careers in Psychology: PR: PSY 2012. An examination of various career opportunities in Psychology, including educational entry requirements, and related professional issues. Graded S/U. <i>Occasional.</i>		
POT 4054	COS-POLS	3(3,0)	PSB 3002	COS-PSYCH	3(3,0)	PSY 3022C	COS-PSYCH	3(1,8)
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). <i>Occasional.</i>			Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. <i>Fall, Spring.</i>			Academic Counseling: PR: PSY 2012. Psychology majors only. Research findings, theory, models and techniques of academic counseling and career advising. <i>Occasional.</i>		
POT 4066	COS-POLS	3(3,0)	PSB 3441	COS-PSYCH	3(3,0)	PSY 3028	COS-PSYCH	3(3,0)
Contemporary Political Theory: PR: Junior standing or C.I. Study of the contemporary debate about the status of rights, utilitarianism, and liberalism, and communitarian Marxist, libertarian, and feminist critiques of liberalism. <i>Occasional.</i>			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. <i>Spring.</i>			Psychology of Career Development: PR: PSY 2012 or C.I. Review of career development theories and current psychological literature on career decision-making. Examination of career development in psychology including educational entry requirements and related issues. <i>Occasional.</i>		
POT 4109	COS-POLS	3(3,0)	PSB 3842	COS-PSYCH	3(3,0)	PSY 3204	COS-PSYCH	4(3,2)
Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature. <i>Occasional.</i>			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. <i>Occasional.</i>			Statistical Methods in Psychology: PR: STA 2014C or STA 2023. Standard scores, confidence intervals, sampling distributions, hypothesis testing, correlation and regression as applied to research in psychology. <i>Occasional.</i>		
POT 4305	COS-POLS	3(3,0)	PSB 4103C	COS-PSYCH	3(2,2)	PSY 3213C	COS-PSYCH	4(3,2)
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. <i>Odd Fall.</i>			Biofeedback Applications: PR: PSY 2012, PSB 3002 and C.I. Introduction to theory, instrumentation, research and clinical application of biofeedback. Training in use of biofeedback equipment. Lecture/Lab. <i>Occasional.</i>			Research Methods in Psychology: PR: PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. <i>Fall, Spring.</i> M&S fee: \$20.00		
POT 4314	COS-POLS	3(3,0)	PSB 4240C	COS-PSYCH	4(3,2)	PSY 3213H	COS-PSYCH	4(3,2)
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. <i>Occasional.</i>			Neuropsychology: PR: PSB 3002. Study of brain function, with particular emphasis on human behavior. Lecture/Lab. <i>Fall, Odd Spring.</i>			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. <i>Occasional.</i>		
POT 4331	COS-POLS	3(3,0)	PSB 4422	COS-PSYCH	3(2,2)	PSY 3302	COS-PSYCH	3(3,0)
Utopia/Dystopia: PR: POS 2041 or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and dystopias. <i>Occasional.</i>			Brainwaves and Behavior: PR: PSB 3002. Review of research and clinical practice in the use of computerized EEG for treatment of selected physical and psychological disorders. <i>Occasional.</i>			Psychological Measurement: PR: PSY 2012 and STA 2014C or STA 2023. A study of the theory underlying psychological tests and measurements procedures, including reliability, validity, and item analysis. <i>Occasional.</i>		
POT 4345	COS-POLS	3(3,0)	PSB 5005	COS-PSYCH	3(3,0)	PSY 3320C	COS-PSYCH	3(2,2)
Pan-Africanist Thought: PR: INR 2002. Philosophical assumptions, theoretical frameworks, ideological orientations and social/political thinkers that have contributed to the tradition of Pan-Africanist thought. <i>Occasional.</i>			Physiological Psychology: PR: PSB 3002 and graduate status or senior standing or C.I. An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. <i>Occasional.</i>			Survey Methods in Psychology: PR: PSY 3213C and SOP 3004. Sampling methods, questionnaire construction, and interpretation of results. <i>Occasional.</i>		
POT 4414	COS-POLS	3(3,0)	PSC 1121	COS-PHYS	3(3,0)	PSY 3624	COS-PSYCH	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. <i>Occasional.</i>			Physical Science: PR: MAC 1105 or MGF 1106. Fundamental laws of mechanics, heat, waves, electricity, magnetism; chemical processes and equations, properties of gases, liquids, solids, solutions. <i>Fall, Spring.</i> M&S fee: \$2.20			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. <i>Occasional.</i>		
POT 4632	COS-POLS	3(3,0)	PSC 1121H	COS-PHYS	3(3,0)	PSY 3630	COS-PSYCH	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. <i>Occasional.</i>			Honors Physical Science: PR: Permission of Honors and MAC 1105 or MGF 1106. PSC 1121 with Honors-level content. <i>Occasional.</i>			Psychology of Human-Animal Interaction: PR: PSY 2012. Psychological aspects of human relationships with animals. <i>Occasional.</i>		
PPE 3003	COS-PSYCH	3(3,0)	PSC 1121L	COS-PHYS	1(0,2)	PSY 3951	COS-PSYCH	1-9(3-30)
Personality Theory: PR: PSY 2012. A survey of theory and research on the development of personality characteristics. <i>Fall, Spring.</i>			Physical Science Lab: CR: PSC 1121. Experiments to apply the scientific method to observation and analysis in mechanics, heat, light, electricity and magnetism, chemical and physical transformations. <i>Fall, Spring.</i> M&S fee: \$10.00			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. <i>Fall, Spring.</i>		
PPE 3003H	COS-PSYCH	3(3,0)	PSY 2012	COS-PSYCH	3(3,0)	PSY 4025	COS-PSYCH	3(3,0)
Honors Personality Theory: PR: PSY 2012 and Consent of Burnett Honors College. Theory and research on the development of personality characteristics. With Honors content. <i>Occasional.</i>			General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. <i>Fall, Spring.</i>			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. <i>Occasional.</i>		
			PSY 2012H	COS-PSYCH	3(3,0)			
			Honors General Psychology: PR: Permission of Honors. A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Honors-level content. <i>Fall, Spring.</i>					

## UCF Courses and Descriptions

PSY 4213L	COS-PSYCH	3(0,3)	PUP 4209	COS-POLS	3(3,0)	PUR 4801	COS-COMM	3(3,0)
<p><b>Advanced Research Methods Statistical Lab:</b> PR: PSY 3213C and CR: PSY 4215C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports. <i>Occasional.</i> M&amp;S fee: \$15.00</p>			<p><b>Urban Environmental Policy:</b> PR: POS 2041. Public policy, ecology, and the urban political landscape explored by tracing their development and prospects for sustainable cities. <i>Occasional.</i></p>			<p><b>Public Relations Case Studies:</b> PR: AD/PR majors only and PUR 4000 or C.I. Discussion and analysis of public relations cases highlighting the application of PR theory to advance organizational goals. <i>Fall, Spring.</i></p>		
PSY 4215C	COS-PSYCH	4(3,2)	PUP 4323	COS-POLS	3(3,0)	RAT 3001	HPA-HP	3(3,0)
<p><b>Advanced Research Methods in Psychology:</b> PR: PSY 3213C. Design, analysis, and interpretation of complex research projects in psychology. <i>Fall, Spring.</i> M&amp;S fee: \$20.00</p>			<p><b>Women and Public Policy:</b> 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. <i>Occasional.</i></p>			<p><b>Introduction to Radiation Oncology:</b> PR: Acceptance into program. An overview of radiation therapy treatment procedures and patient care considerations. <i>Occasional.</i></p>		
PSY 4305C	COS-PSYCH	3(1,4)	PUP 4404	COS-POLS	3(3,0)	RAT 3241	HPA-HP	3(3,0)
<p><b>Advanced Psychological Measurement:</b> PR: or CR: PSY 3302. Application of the theory underlying psychological test and measurement procedures, including reliability, validity, and item analysis. <i>Occasional.</i></p>			<p><b>Education and Politics:</b> PR: Junior standing or C.I. Western education and the connection between citizenship and education, education funding, and the politics of education reform. <i>Occasional.</i></p>			<p><b>Clinical Radiobiology:</b> Application of the principles and theories of radiobiology to the clinical practice of radiation therapy. <i>Occasional.</i></p>		
PSY 4604	COS-PSYCH	3(3,0)	PUP 4503	COS-POLS	3(3,0)	RAT 3242	HPA-HP	2(2,0)
<p><b>History and Systems of Psychology:</b> PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positions. <i>Occasional.</i></p>			<p><b>Government and Science:</b> PR: C.I. Examination of interface between science and government. Focus is upon governmental support for science, social accountability, and the role of the scientist-policy maker in comparative context. <i>Occasional.</i></p>			<p><b>Oncologic Pathology:</b> PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characteristics, histologic grading, staging and treatment. <i>Occasional.</i></p>		
PSY 5605	COS-PSYCH	3(3,0)	PUP 4510	COS-POLS	3(3,0)	RAT 3614	HPA-HP	2(2,0)
<p><b>History and Systems of Psychology:</b> PR: Acceptance to Clinical Psychology Ph.D. program or C.I. An examination of modern American psychology from its origins in the late 19th century to the present time. This course is intended for the Ph.D. in Clinical Psychology; in certain instances graduate students in other programs may enroll. <i>Odd Fall.</i></p>			<p><b>Space Policy:</b> 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. <i>Even Fall.</i></p>			<p><b>Radiation Therapy Physics I:</b> PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection. <i>Occasional.</i></p>		
PUP 3014	COS-POLS	3(3,0)	PUP 4602	COS-POLS	3(3,0)	RAT 4247	HPA-HP	3(3,0)
<p><b>Comparative Public Policy:</b> PR: POS 2041 or CPO 3103 or C.I. Areas of public policy such as immigration, education, trade, taxation, and fiscal policy in selected countries. <i>Occasional.</i></p>			<p><b>Politics of Health:</b> 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. <i>Occasional.</i></p>			<p><b>Radiation Oncology I:</b> Methods of radiation therapy treatment of malignant conditions of the skin, oral cavity, pharynx, sinuses, thyroid, digestive and respiratory systems. <i>Occasional.</i></p>		
PUP 3203	COS-POLS	3(3,0)	PUP 4744	COS-POLS	3(3,0)	RAT 4248	HPA-HP	3(3,0)
<p><b>Environmental Politics:</b> 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. <i>Odd Fall.</i></p>			<p><b>Government and Business:</b> PR: Junior standing or C.I. Analysis of public policies regarding business. Study includes various levels of government including international organizations. <i>Occasional.</i></p>			<p><b>Radiation Oncology II:</b> Methods of treatment of malignant conditions of the nervous system, eye, reproductive system, urinary system, connective tissue, and lympho-reticular system. <i>Occasional.</i></p>		
PUP 3314	COS-POLS	3(3,0)	PUP 4931	COS-POLS	3(3,0)	RAT 4618C	HPA-HP	4(3,3)
<p><b>Minorities in American Politics:</b> 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. <i>Occasional.</i></p>			<p><b>Topics in Public Policy:</b> Intensive analysis of a current policy problem. Sample topics include education, growth management, housing, affirmative action, welfare, and transportation. May be repeated once. <i>Occasional.</i></p>			<p><b>Radiation Therapy Physics II:</b> PR: RAT 3614. Study of radiation protection techniques, design considerations, modes and characteristics of decay, handling of radionuclides and clinical dosimetry. <i>Occasional.</i></p>		
PUP 3325	COS-POLS	3(3,0)	PUR 3100	COS-COMM	3(2,1)	RAT 4619C	HPA-HP	4(3,3)
<p><b>Women and Political Behavior:</b> PR: POS 2041 or C.I. Women's role in the political process, emphasizing women in the governmental and policy process. <i>Odd Fall.</i></p>			<p><b>Writing for Public Relations:</b> PR: AD/PR Majors only. Development of skills in writing for public relations. <i>Fall, Spring.</i></p>			<p><b>Radiation Therapy Physics III:</b> PR: RAT 4618C. Study of treatment planning principles and techniques, including multiple beam therapy, rotation therapy, arc therapy, and irregular field techniques. <i>Occasional.</i></p>		
PUP 3508	COS-POLS	3(3,0)	PUR 4000	COS-COMM	3(3,0)	RAT 4804L	HPA-HP	5(0,20)
<p><b>Space Studies:</b> 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. <i>Occasional.</i></p>			<p><b>Public Relations:</b> PR: SPC 1600. Principles and practice of Public Relations including techniques, research tools publicity, and management. <i>Fall, Spring.</i></p>			<p><b>Clinical Education I:</b> PR: RTE 3000, RTE 3111C, RTE 3528, RTE 3684C, RTE 3804, RTE 3457C, RTE 3549, or C.I. Supervised clinical practice in patient care and orientation to radiation therapy simulation, and treatment planning and delivery procedures. <i>Occasional.</i></p>		
PUP 4003	COS-POLS	3(3,0)	PUR 4110C	COS-COMM	3(1,3)	RAT 4814L	HPA-HP	6(0,24)
<p><b>American Public Policy:</b> PR: POS 2041 or C.I. Policy formation, implementation and evaluation, with a focus upon contemporary American problems, including the malappportionment of societal power and social conflict. <i>Occasional.</i></p>			<p><b>Public Relations Publications:</b> PR: ENC 2210 or PUR 3100 or JOU 2100C or ENC 3250. Basic principles and techniques of desktop production of public relations publications. <i>Fall, Spring.</i></p>			<p><b>Clinical Education II:</b> PR: RAT 4804L. Supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units. <i>Occasional.</i></p>		
PUP 4204	COS-POLS	3(3,0)	PUR 4203	COS-COMM	3(3,0)	RAT 4824L	HPA-HP	6(0,24)
<p><b>Sustainability:</b> PR: POS 2041 or C.I. Environmental politics through the lens of "sustainability." Attention devoted to the relationships of culture, economics, and ecology. <i>Odd Fall.</i></p>			<p><b>PR/Advertising Ethics and Law:</b> PR: Admitted to the Advertising/Public Relations (B.A.) and ADV 3000. Legal precedents applicable to advertising and public relations as well as ethical considerations for both. <i>Fall, Spring.</i></p>			<p><b>Clinical Education III:</b> PR: RAT 4814L. Continued supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units. <i>Occasional.</i></p>		
			PUR 4800	COS-COMM	3(3,0)	RED 3012	ED-TLP	3(3,0)
			<p><b>Public Relations Campaigns:</b> PR: Majors only, PUR 4000 or C.I. Planning and execution of public relations campaigns for profit and non-profit organizations. <i>Occasional.</i></p>			<p><b>Basic Foundations of Reading:</b> PR: Junior standing or C.I. Principles, procedures, and current practices for teaching reading. Specific techniques and materials for word identification, content reading and comprehension. <i>Fall, Spring.</i></p>		

## UCF Courses and Descriptions

RED 3310	ED-CFCS	3(3,0)	REE 4732	BA-FIN	3(3,0)	RET 3026C	HPA-HP	4(3,3)
<b>Emerging Literacy:</b> PR: Admission to program, or C.I. Investigates emergence of reading/writing processes during preschool, kindergarten, and early first grade years. <i>Spring.</i>			<b>Real Estate Development:</b> PR: FIN 3403. 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. <i>Fall.</i>			<b>Introduction to Respiratory Care.:</b> 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. <i>Fall.</i> M&S fee: \$45.00		
RED 4043	ED-TLP	3(3,0)	REL 2300	CAH-PHIL	3(3,0)	RET 3174	HPA-HP	3(3,0)
<b>Content Reading in Kindergarten through Grade 12:</b> 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. <i>Fall, Spring.</i>			<b>World Religions:</b> Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. <i>Fall, Spring.</i>			<b>Pediatric Respiratory Care:</b> PR: RET 3026C. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS. <i>Spring.</i>		
RED 4311	ED-CFCS	3(3,0)	REL 2300H	CAH-PHIL	3(3,0)	RET 3264C	HPA-HP	3(2,3)
<b>Development of Literacy:</b> PR: RED 3310. Methods for development of reading and writing process during primary (first - third) grades. <i>Fall.</i>			<b>Honors World Religions:</b> PR: Permission of Honors. Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. Honors-level content. <i>Occasional.</i>			<b>Mechanical Ventilation:</b> PR: RET 3026C. Function and use of mechanical ventilators, patient evaluation methods. All forms of ventilatory support will be studied. Lecture and laboratory. <i>Occasional.</i>		
RED 4519	ED-TLP	3(3,1)	REL 3111	CAH-PHIL	3(3,0)	RET 3483C	HPA-HP	3(2,1)
<b>Diagnostic and Corrective Reading Strategies:</b> 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. <i>Fall, Spring.</i>			<b>Religion and Philosophy Through Film:</b> PR: ENC 1102 and either PHI 2010 or REL 2300 or FIL 1001. Religious and philosophical themes encountered in contemporary film. It unites religion, philosophy and film by means of a critique of cultural productions of meaning, value and purpose. <i>Occasional.</i>			<b>Respiratory Clinical Assessment:</b> 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. <i>Spring.</i>		
RED 5147	ED-TLP	3(3,0)	REL 3115	CAH-PHIL	3(3,0)	RET 3484C	HPA-HP	4(3,3)
<b>Developmental Reading:</b> PR: EDG 4323. Principles, procedures, organization, and current practices in the elementary reading program. Materials and methods of instruction. <i>Fall, Spring.</i>			<b>Religion, Spirituality, and Popular Music:</b> PR: HUM 2230 or REL 2300. Contemporary spiritual sensibilities encountered at the intersection of religion, philosophy, and popular music. <i>Odd Fall.</i>			<b>Cardiopulmonary Physiology:</b> PR: PCB 3703C. Normal ventilation, lung mechanics, pulmonary circulation, diffusion, and blood gases, with an emphasis toward diagnostic cardiology. <i>Fall.</i> M&S fee: \$18.00		
RED 5514	ED-TLP	3(3,1)	REL 3131	CAH-PHIL	3(3,0)	RET 3874	HPA-HP	5(1,16)
<b>Classroom Diagnosis and Development of Reading Proficiencies:</b> PR: RED 5147 or equivalent. Classroom diagnosis and corrective teaching in reading; instructional materials. Case study required. <i>Even Fall, Spring.</i>			<b>Religion in America:</b> PR: REL 2300. Religious traditions in America, their relationship to politics, popular culture, media, and society. <i>Even Spring.</i>			<b>Clinical Practice I:</b> PR: C.I. Basic equipment and patient care. IPPB therapy. Cleaning sterilization and maintenance procedures. Suction techniques. <i>Occasional.</i>		
REE 3043	BA-FIN	3(3,0)	REL 3162	CAH-PHIL	3(3,0)	RET 3875	HPA-HP	8(1,24)
<b>Fundamentals of Real Estate:</b> PR: Junior standing. Application of basic tools of economics, finance, and marketing to solve private and public sector real estate problems. <i>Fall, Spring.</i>			<b>Healing: Culture, Art and Praxis:</b> PR: Junior standing. A theory of the culture-specific nature of illness, including soul loss, spirit intrusion and the medicalization of deviance. <i>Occasional.</i>			<b>Clinical Practice II:</b> 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. <i>Fall.</i>		
REE 3433	BA-FIN	3(3,0)	REL 3340	CAH-PHIL	3(3,0)	RET 4034	HPA-HP	3(3,0)
<b>Real Estate Law:</b> PR: Junior standing. An analysis of real estate law with emphasis on Florida statutes and case law. <i>Fall, Spring.</i>			<b>Buddhist Thought:</b> PR: HUM 2230 or REL 2300 or C.I. Teachings of Buddhism and their contemporary applications. <i>Odd Fall, Spring.</i>			<b>Problems in Patient Management:</b> PR: RET 3484C. Problem-oriented approach to the treatment of chronic and acute respiratory disorders. Computer-based clinical simulations are utilized. Emphasis on patient centered care planning. <i>Fall.</i>		
REE 4103	BA-FIN	3(3,0)	REL 3432	CAH-PHIL	3(3,0)	RET 4244	HPA-HP	3(3,0)
<b>Real Estate Appraisal and Valuation:</b> PR: FIN 3403. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis. <i>Occasional.</i>			<b>Roots of Western Mysticism:</b> PR: HUM 3431, HUM 3435, HUM 3552, HUM 3553, HUM 4303, HUM 4554, PHH 3100, or PHH 3200. Ancient, medieval, and early modern European mysticism, and its influences on religious, philosophical, artistic, and scientific thought in the West. <i>Even Fall, Odd Spring.</i>			<b>Life Support Systems:</b> PR: RET 3026C. Lecture-laboratory, measures supporting critically ill patients; intubation, airway maintenance, arterial and venous lines, post-operative care. Cardiac output determination, electrocardiography, intra-aortic balloon pumping covered. <i>Spring.</i>		
REE 4203	BA-FIN	3(3,0)	REL 4110	CAH-PHIL	3(3,0)	RET 4284	HPA-HP	3(3,0)
<b>Commercial Real Estate Finance:</b> PR: FIN 3403; open to majors or minors which require this course. The practice of commercial real estate finance; emphasis on lender and borrower decision making and secondary markets. <i>Occasional.</i>			<b>Religion and the Arts:</b> PR: At least one of the following: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with an emphasis on contemporary society. <i>Occasional.</i>			<b>Cardiopulmonary Diagnostics I:</b> PR: RET 4244. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing. <i>Fall.</i>		
REE 4204	BA-FIN	3(3,0)	REL 4901	CAH-PHIL	1(1,0)	RET 4285	HPA-HP	3(3,0)
<b>Residential Real Estate Finance:</b> PR: Fin 3403; open to majors or minors which require this course. Study of the practice of residential real estate finance; emphasis on lender and borrower decision making and secondary markets. <i>Fall, Spring.</i>			<b>Portfolio:</b> PR: Final semester as Humanities/Religious Studies track major. Presentation of a representative sampling of a student's best undergraduate work, with appropriate revision, including a cover narrative indicating development of knowledge and skills in the subject area. Graded S/U. <i>Occasional.</i>			<b>Cardiopulmonary Diagnostics II:</b> PR: RET 4244 and RET 4284. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, streptokinase use, and heart surgery. <i>Spring.</i>		
REE 4303	BA-FIN	3(3,0)	REL 4910	CAH-PHIL	3(3,0)	RET 4414C	HPA-HP	4(3,3)
<b>Real Estate Investment Analysis:</b> PR: FIN 3403. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis. <i>Fall, Spring.</i>			<b>Senior Research Seminar:</b> PR: Senior standing and Religion Studies track major. Capstone course on research, developing effective oral and written communication skills. <i>Occasional.</i>			<b>Pulmonary Function Studies:</b> PR: RET 3026C. Detailed procedures and tests to provide information for diagnosis of pulmonary disease. Lecture-laboratory. <i>Occasional.</i> M&S fee: \$14.00		

RET 4441	HPA-HP	4(3,3)	<b>Vascular Ultrasound:</b> Study of application of ultrasound in the diagnosis of vascular diseases. Includes doppler and color flow doppler examination of arterial and venous systems. <i>Occasional.</i>
RET 4443	HPA-HP	4(3,3)	<b>Advanced Cardiac Ultrasound:</b> 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. <i>Occasional.</i>
RET 4503	HPA-HP	3(3,0)	<b>Chest Medicine:</b> PR: RET 3026C. Disease states treated medically in conjunction with one or more modalities of respiratory therapy. <i>Spring.</i>
RET 4536	HPA-HP	3(3,0)	<b>Cardiopulmonary Rehabilitation:</b> PR: RET 3026C & RET 3484C or C.I. Principles underlying the development, implementation, and management of a comprehensive cardiopulmonary rehabilitation program. <i>Spring.</i>
RET 4715	HPA-HP	3(3,0)	<b>Neonatal Medicine:</b> 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. <i>Fall.</i>
RET 4876	HPA-HP	8(1,24)	<b>Clinical Practice III:</b> 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. <i>Spring.</i>
RET 4934	HPA-HP	2(2,0)	<b>Selected Topics in Respiratory Therapy:</b> PR: C.I. Current topics of adult critical care, as they apply to the advanced study of respiratory therapy. <i>Spring.</i>
RET 5910	HPA-HP	3(3,0)	<b>Research Methods in Cardiopulmonary Physiology:</b> Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis. <i>Occasional.</i>
RMI 3011	BA-FIN	3(3,0)	<b>Principles of Risk and Insurance:</b> PR: FIN 3403. Emphasis is on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention. <i>Spring.</i>
RTE 3000	HPA-HP	3(3,0)	<b>Introduction to Radiologic Sciences:</b> PR: Admission to Radiologic Sciences program. Orientation to career field, radiation protection, principles and procedures of medical imaging and radiation therapy. <i>Fall.</i>
RTE 3111C	HPA-HP	2(1.5,1.5)	<b>Introduction to Patient Care:</b> PR: Acceptance to the program. Provides the student with fundamentals of patient care methods related to radiography. <i>Fall.</i> M&S fee: \$10.00
RTE 3116	HPA-HP	3(3,0)	<b>Advanced Patient Care:</b> 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. <i>Spring.</i>
RTE 3308	HPA-HP	3(3,0)	<b>Medical Physics:</b> PR: RTE 3684C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding. <i>Occasional.</i>
RTE 3418C	HPA-HP	3(2.5,1.5)	<b>Principles of Radiographic Exposure I:</b> An introduction to the technical variables influencing radiographic and fluoroscopic image quality, including equipment considerations, prime exposure factors, image receptors, and accessory exposure devices. <i>Fall.</i> M&S fee: \$28.00
RTE 3457C	HPA-HP	3(2.5,1.5)	<b>Principles of Radiographic Exposure II:</b> PR: RTE 3418C or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality. <i>Spring.</i> M&S fee: \$28.00
RTE 3503C	HPA-HP	3(2,3)	<b>Radiographic Procedures I:</b> 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. <i>Fall.</i> M&S fee: \$45.00
RTE 3513C	HPA-HP	3(2,3)	<b>Radiographic Procedures II:</b> 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. <i>Spring.</i> M&S fee: \$45.00
RTE 3684C	HPA-HP	2(2,0)	<b>Physics of Image Production:</b> PR: College Physics II. Physics of diagnostic radiology, including radiation production, physical principles of generator operation, and characteristics of electromagnetic radiation. <i>Fall.</i>
RTE 3804	HPA-HP	4(0,16)	<b>Clinical Education I:</b> PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment. <i>Spring.</i>
RTE 4202	HPA-HP	3(3,0)	<b>Methods in Radiology Management:</b> Concepts of radiology, department management, including principles, personnel management, evaluation and improvement techniques, budgeting, financial considerations and legal aspects, and JCAH quality assurance specifications. <i>Occasional.</i>
RTE 4206	HPA-HP	3(3,0)	<b>Leadership in Radiological Sciences:</b> 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. <i>Spring.</i>
RTE 4209	HPA-HP	2(0,8)	<b>Radiological Administrative Practice:</b> A directed practice in the management of a radiology department, with application of theory and methodology. <i>Occasional.</i>
RTE 4385	HPA-HP	1(1,0)	<b>Radiobiology:</b> PR: RTE 3308. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated. <i>Fall.</i>
RTE 4473	HPA-HP	3(3,0)	<b>Quality Improvement:</b> PR: Registered technologist or Senior standing. The study of quality improvement and quality control from the perspective of radiology services. <i>Spring.</i>
RTE 4563	HPA-HP	2(2,0)	<b>Special Radiographic Procedures:</b> PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, cholangiography, hysterosalpingography, and bronchography. <i>Occasional.</i>
RTE 4573	HPA-HP	3(3,0)	<b>Advanced Imaging Modalities:</b> 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. <i>Fall.</i>
RTE 4574	HPA-HP	1(1,0)	<b>Computed Tomography Protocols:</b> PR: Senior level status in Radiologic Sciences program. Examines the application of imaging techniques accomplished by multidetector row computed tomography acquisition. <i>Fall.</i>
RTE 4579	HPA-HP	1(1,0)	<b>Magnetic Resonance Imaging Protocols:</b> PR: Senior Level status in Radiologic Sciences Program. Provides overview of imaging protocols used for specific MRI procedures. Content includes patient screening, safety procedures, patient positioning, coil and accessory device selection and use. <i>Fall.</i>
RTE 4762	HPA-HP	3(3,0)	<b>Anatomy for the Medical Imager:</b> A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference. <i>Fall.</i>
RTE 4782	HPA-HP	2(2,0)	<b>Pathophysiology:</b> PR: C.I. The study of radiologic science in the diagnosis and treatment of disease. <i>Spring.</i>
RTE 4814L	HPA-HP	5(0,20)	<b>Clinical Education II:</b> PR: RTE 3804. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the chest, abdomen, extremities and shoulder girdle. <i>Occasional.</i>
RTE 4824L	HPA-HP	6(0,24)	<b>Clinical Education III:</b> PR: RTE 4814L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography. <i>Fall.</i>
RTE 4834	HPA-HP	4(0,16)	<b>Clinical Education IV:</b> PR: RTE 4824L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranium, facial bones, and special procedures. <i>Spring.</i>
RTE 4844	HPA-HP	4(0,16)	<b>Clinical Education V:</b> PR: RTE 4834. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on surgical and special procedure examinations. <i>Occasional.</i>
RTE 4854	HPA-HP	2(0,8)	<b>Advanced Clinical Practicum:</b> PR: RTE 4824L. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonances imaging. <i>Fall, Spring.</i>
RTE 4903	HPA-HP	2(0,8)	<b>Directed Study in Radiologic Education:</b> PR: EVT 3371 or EDG 4323 or C.I. Directed activity in classroom instruction in radiologic technology. <i>Occasional.</i>
RTV 2102	COS-R/TV	3(3,0)	<b>Writing for the Electronic Media:</b> PR: ENC 1102, RTV Major. Practical experience in writing for various electronic media including radio, television, corporate, and digital media. Scripting requirements, writing styles and creative applications. <i>Odd Fall, Even Spring.</i>

## UCF Courses and Descriptions

<p><b>RTV 3000</b>      COS-R/TV      3(3,0)  <b>Development and Structure of Electronic Media and New Technology:</b> 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. <i>Fall, Spring.</i></p>	<p><b>RTV 3304</b>      COS-R/TV      3(3,0)  <b>Electronic Journalism II:</b> PR: RTV 3301, RTV 3260C, and RTV Major - Broadcast Journalism Specialization. Newswriting and newsgathering strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages. <i>Fall, Spring.</i></p>	<p><b>RTV 4505</b>      COS-R/TV      3(3,1)  <b>Program Issues for TV &amp; Motion Pictures:</b> PR: RTV 3000 or FIL 2400. An examination of program development theories, strategies and issues in the television and motion picture industries. <i>Occasional.</i></p>
<p><b>RTV 3200</b>      COS-R/TV      3(3,0)  <b>Production Fundamentals and Aesthetics of Electronic Media:</b> PR: RTV 3000 or C.I. Technical and creative concepts of analog and digital electronic media production for radio, television, and multimedia delivery systems. <i>Fall, Odd Spring.</i></p>	<p><b>RTV 3501</b>      COS-R/TV      3(1,2)  <b>Broadcast Copywriting:</b> PR: RTV Majors only, Grammar Proficiency Examination and School Typing Exam. Preparation of written public service and commercial copy for radio and television. <i>Occasional.</i></p>	<p><b>RTV 4700</b>      COS-R/TV      3(3,0)  <b>Regulation of Broadcasting:</b> PR: RTV Majors only, RTV 3000. Federal, state, local and self-regulatory agencies and practices which govern electronic media. <i>Fall.</i></p>
<p><b>RTV 3210C</b>      COS-R/TV      4(4,3)  <b>Audio Production I:</b> PR: RTV 3200 and RTV Major-Production Specialization. Audio production theory and recording techniques utilizing various microphone types, and digital non-linear audio computer-based editing equipment. <i>Fall, Spring.</i> M&amp;S fee: \$30.00</p>	<p><b>RTV 3942L</b>      COS-R/TV      1-3(0,3-9)  <b>Practicum:</b> PR: C.I., RTV Major, and either RTV 3210C, RTV 3228C, or RTV 3260C. Student will serve in some position of responsibility for UCF Weekly News or other RTV program. May be repeated for credit. Graded S/U. <i>Occasional.</i></p>	<p><b>RTV 4800</b>      COS-R/TV      3(3,0)  <b>Broadcast Management:</b> PR: RTV Majors only, RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels. <i>Odd Spring.</i></p>
<p><b>RTV 3223C</b>      COS-R/TV      3(3,3)  <b>Lighting for Video:</b> PR: RTV 3228C and RTV Major - Production Specialization. Basic lighting techniques for both studio and location, single and multiple-camera video production. <i>Odd Fall, Spring.</i> M&amp;S fee: \$30.00</p>	<p><b>RTV 4206C</b>      COS-R/TV      4(4,3)  <b>Television Directing:</b> PR: RTV 3228C and RTV Major - Production Specialization. Preparation and direction of programs, using both digital and analog resources, with emphasis on dramatic value and composition. <i>Fall, Even Spring.</i> M&amp;S fee: \$30.00</p>	<p><b>RUS 1120</b>      CAH-LANG      4(4,1)  <b>Elementary Russian Language and Civilization I:</b> Introduces the student to Russian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. <i>Occasional.</i></p>
<p><b>RTV 3228C</b>      COS-R/TV      4(4,3)  <b>Studio Television Production:</b> PR: RTV 3200 and RTV major - Production Specialization. Analog and digital television studio production including audio mixers, microphones, tape recorders, cameras, video switchers, lighting, and electronic graphics. <i>Odd Fall, Even Spring.</i> M&amp;S fee: \$30.00</p>	<p><b>RTV 4211C</b>      COS-R/TV      3(3,3)  <b>Audio Production II:</b> PR: RTV 3210C and RTV Major. Creating the sound design and multiple track recording in the analog and digital domain. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>RUS 1121</b>      CAH-LANG      4(4,1)  <b>Elementary Russian Language and Civilization II:</b> PR: RUS 1120 or equivalent. Continuation of RUS 1120. <i>Occasional.</i></p>
<p><b>RTV 3231C</b>      COS-R/TV      4(1,3)  <b>Broadcast Announcing and Performance:</b> PR: RTV Majors only, RTV 3210C or RTV 3260C or RTV 4270C or C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting. <i>Odd Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>RTV 4270C</b>      COS-R/TV      3(3,3)  <b>Radio Production and Programming:</b> PR: RTV 3200 and RTV Major - Production or Broadcast Generalist Specialization. Study and production of current radio formats, the integration of digital resources, and their effects on today's radio listener. <i>Fall.</i></p>	<p><b>RUS 2200</b>      CAH-LANG      3(3,1)  <b>Intermediate Russian Language and Civilization I:</b> PR: RUS 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Occasional.</i></p>
<p><b>RTV 3260C</b>      COS-R/TV      4(4,3)  <b>Single Camera Video Production and Editing:</b> PR: RTV 3200 and RTV Major- Production Specialization or Broadcast Journalism Specialization. Technical and aesthetic requirements of analog and digital single-camera video production and editing, including techniques for electronic news gathering (ENG) and electronic field production (EFP). <i>Fall, Spring.</i> M&amp;S fee: \$30.00</p>	<p><b>RTV 4280C</b>      COS-R/TV      3(3,3)  <b>Webcasting I:</b> 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. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>RUS 2201</b>      CAH-LANG      3(3,1)  <b>Intermediate Russian Language and Civilization II:</b> PR: RUS 2200 or equivalent. Continuation of RUS 2200, with emphasis on Russian civilization. <i>Occasional.</i></p>
<p><b>RTV 3263C</b>      COS-R/TV      3(3,3)  <b>Advanced Video Post-Production:</b> PR: RTV 3260C and RTV Major - Production Specialization. Advanced post-production techniques for analog and digital video, including A/B roll time code editing, digital video effects, electronic graphics, and non-linear video editing systems. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>RTV 4281C</b>      COS-R/TV      3(3,3)  <b>Webcasting II:</b> 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. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>RUS 2210</b>      CAH-LANG      3(3,0)  <b>Intensive Russian Conversation:</b> PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking. <i>Occasional.</i></p>
<p><b>RTV 3283C</b>      COS-R/TV      3(3,1)  <b>Production of Interactive Multimedia:</b> PR: CGS 1060C; major status in RTV, Ad/PR, Journalism, Organizational or Interpersonal Communication. Practice and production of electronic interactive multimedia for the broadcast industry. <i>Odd Fall.</i> M&amp;S fee: \$15.00</p>	<p><b>RTV 4320C</b>      COS-R/TV      3(1,3)  <b>Television News:</b> PR: RTV 3304 and RTV Major - Broadcast Journalism Specialization. Production of weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>RUS 3240</b>      CAH-LANG      3(3,0)  <b>Russian Conversation:</b> PR: RUS 2201 or equivalent. Development of skills in conversation and comprehension through practice. <i>Occasional.</i></p>
<p><b>RTV 3301</b>      COS-R/TV      3(3,0)  <b>Electronic Journalism I:</b> PR: RTV 2102 and RTV Major - Broadcast Journalism Specialization. Newswriting and newsgathering skills and strategies and their accompanying ethical considerations for analog and digital delivery of broadcast journalism. <i>Fall, Spring.</i></p>	<p><b>RTV 4322C</b>      COS-COMM      3(1,3)  <b>Advanced TV News:</b> PR: RTV 4320C, RTV Majors only and C.I. Supervised broadcast news experience and/or practice in the weekly UCF news program. <i>Occasional.</i></p>	<p><b>RUS 3760</b>      CAH-LANG      3(3,0)  <b>Advanced Russian Oral Communication:</b> PR: RUS 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. <i>Occasional.</i></p>
<p><b>RTV 4403</b>      COS-R/TV      3(3,0)  <b>Electronic Media, Technology, and Society:</b> PR: or CR: RTV 3000. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media. <i>Fall, Spring.</i></p>	<p><b>RTV 4503</b>      COS-R/TV      3(3,0)  <b>Sports Programming on Broadcast and Cable:</b> 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. <i>Occasional.</i></p>	<p><b>SCE 3310</b>      ED-TLP      3(3,0)  <b>Teaching Science in Elementary School:</b> PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures. <i>Fall, Spring.</i> M&amp;S fee: \$5.25</p>
		<p><b>SCE 4023</b>      ED-CFCS      3(3,0)  <b>Teaching Science and Technology to Young Children:</b> Provides the knowledge and skills needed to plan and implement a discovery science/design technology program for young children in an integrated, interactive curriculum. <i>Fall.</i></p>
		<p><b>SCE 4360</b>      ED-TLP      4(3,2)  <b>Science Instructional Analysis:</b> PR: EDG 4323 or C.I. Course objectives for a school curriculum and methods and materials for the middle grades and high school. <i>Fall, Spring.</i> M&amp;S fee: \$8.00</p>

<p><b>SCE 5325</b> ED-TLP 3(3,0)  <b>Teaching Middle School Science:</b> PR: EDG 6236 or C.I. This course will provide experiences that promote effective science teaching in grades 5-9 including interdisciplinary teaming, technology use, ESOL, and inquiry in science. <i>Occasional.</i></p>	<p><b>SOP 3751</b> COS-PSYCH 3(3,0)  <b>Legal Aspects of Psychology:</b> PR: PSY 2012 or SYG 2000; PPE 3003 or C.I. Ethical and legal dilemmas and issues in the practice of psychology. <i>Fall.</i></p>	<p><b>SOW 4341</b> HPA-SOWK 3(1,2)  <b>Micro-Level Roles and Interventions in Social Work:</b> PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving with individuals, families and supportive and remedial groups. <i>Fall.</i></p>
<p><b>SCE 5632</b> ED-TLP 3(3,0)  <b>Issues and Methods in Secondary School Science:</b> PR: EDG 6236 or C.I. Secondary science education special methods course is designed to augment students' understanding of instructional methods and their applications to middle and high school science curriculum. <i>Fall, Spring.</i></p>	<p><b>SOP 3784</b> COS-PSYCH 3(3,0)  <b>Psychology of Diversity:</b> 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. <i>Occasional.</i></p>	<p><b>SOW 4343</b> HPA-SOWK 3(1,2)  <b>Macro-Level Roles and Interventions in Social Work:</b> PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving to obtain and improve social welfare resources within organizations and communities. <i>Fall.</i></p>
<p><b>SCE 5716</b> ED-TLP 3(3,0)  <b>Methods in Elementary School Science:</b> PR: EDG 4323. Organization of instruction in elementary school science including methods, evaluation, materials, strategies, and current practices. <i>Spring.</i></p>	<p><b>SOP 5059</b> COS-PSYCH 3(3,0)  <b>Advanced Social Psychology:</b> 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. <i>Occasional.</i></p>	<p><b>SOW 4431</b> HPA-SOWK 3(2,1)  <b>Evaluating Social Work Practice and Service Programs:</b> PR: SOW 3401, SOW 3300. The study of systematic data collection and of measurement of change in individuals, families, groups, programs, and communities. <i>Occasional.</i></p>
<p><b>SCE 5825</b> ED-TLP 3(3,0)  <b>Space Science for Educators:</b> PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum. <i>Occasional.</i></p>	<p><b>SOW 2020</b> HPA-SOWK 3(3,0)  <b>Introduction to Social Services:</b> Introduction to social services, with emphasis on the role of the professional social worker and current career opportunities. <i>Fall.</i></p>	<p><b>SOW 4510</b> HPA-SOWK 9(0,28)  <b>Field Education:</b> 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. <i>Spring.</i></p>
<p><b>SLS 1501</b> ED-ES 3(2,1)  <b>Strategies for Success in College:</b> 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. <i>Fall, Spring.</i></p>	<p><b>SOW 3104</b> HPA-SOWK 3(3,0)  <b>Assessing I: Human Development:</b> 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. <i>Fall.</i></p>	<p><b>SOW 4522</b> HPA-SOWK 3(2,1)  <b>Field Education Seminar:</b> PR: Completion of required courses in major; CR: SOW 4510. Weekly seminar to examine the field experience and to relate theory with practice situations. <i>Spring.</i></p>
<p><b>SLS 2261C</b> ED-ES 2(2,1)  <b>Student Organization Leadership:</b> Application of leadership and organizational development paradigms, theories, and approaches for emerging and established student leaders. <i>Occasional.</i></p>	<p><b>SOW 3111</b> HPA-SOWK 3(3,0)  <b>Assessing II: Human Systems:</b> 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. <i>Spring.</i></p>	<p><b>SOW 4602</b> HPA-SOWK 3(3,0)  <b>Social Work in Health Settings:</b> PR: SOW 3300 and SOW 3104 or C.I. Study of social work roles, interventions, and issues related to helping patients in health settings. <i>Fall.</i></p>
<p><b>SLS 2311C</b> BCBS-M&amp;M 2(2,1)  <b>Overview of Select Medical Careers:</b> An overview of the pre-health professions process for careers in medicine, dentistry, veterinary, optometry, pharmacy, podiatry, and chiropractic. <i>Spring.</i></p>	<p><b>SOW 3203</b> HPA-SOWK 3(3,0)  <b>Social Work &amp; Community Resources:</b> PR: Jr. Standing or C.I. open to non-majors. Generalist social work practice, including the structure of American social welfare, values and ethics of social work and community resources. <i>Fall.</i></p>	<p><b>SOW 4645</b> HPA-SOWK 3(3,0)  <b>Social Services for the Elderly:</b> PR: SOW 3300, SSOW 3104, or Gerontology Certificate Major or C.I. Development of interventive skills for obtaining, providing, and improving social services in behalf of elderly persons and their families. <i>Fall.</i></p>
<p><b>SOP 2772</b> COS-PSYCH 3(3,0)  <b>Sexual Behavior:</b> PR: PSY 2012. Physiological, social, and clinical aspects of human sexuality. <i>Fall.</i></p>	<p><b>SOW 3300</b> HPA-SOWK 3(2,1)  <b>Practice I:</b> PR: Admin. to Social Work Program. Generalist Practice in Social Work: Study of social work functions, knowledge, values, and skills. Development of ability to use a generalist model of practice. <i>Fall.</i></p>	<p><b>SOW 4650</b> HPA-SOWK 3(3,0)  <b>Child Abuse: Treatment and Prevention:</b> 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. <i>Spring.</i></p>
<p><b>SOP 3004</b> COS-PSYCH 3(3,0)  <b>Social Psychology:</b> PR: PSY 2012. Effects of social situations and social variables on the behavior of individuals. <i>Fall, Spring.</i></p>	<p><b>SOW 3352</b> HPA-SOWK 3(1,2)  <b>Practice II:</b> 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. <i>Spring.</i></p>	<p><b>SOW 4654</b> HPA-SOWK 3(3,0)  <b>Children's Services:</b> 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. <i>Fall, Spring.</i></p>
<p><b>SOP 3723</b> COS-PSYCH 3(3,0)  <b>Cross Cultural Psychology:</b> PR: PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups. <i>Odd Spring.</i></p>	<p><b>SOW 3401</b> HPA-SOWK 3(3,0)  <b>Social Work Research:</b> PR: STA 2014C or STA 2023. Study of quantitative and qualitative methods of building knowledge for social work and the ethical use of research in professional practice. <i>Spring.</i></p>	<p><b>SOW 4673</b> HPA-SOWK 3(3,0)  <b>Social Work Practice: The Gay and Lesbian Experience:</b> PR: SOW 3104 or C.I. Sexual orientation and cultural diversity, policies and resources affecting gay &amp; lesbian people, community based therapeutic and preventive interventions with gay &amp; lesbian clients. <i>Even Spring.</i></p>
<p><b>SOP 3724</b> COS-PSYCH 3(3,0)  <b>The Psychology of Racial Prejudice:</b> 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. <i>Even Spring.</i></p>	<p><b>SOW 3620</b> HPA-SOWK 3(2,1)  <b>Social Work with Minorities:</b> PR: SOW 3203, and SOW 3104; PR or CR: SOW 3300. Study of oppressed groups and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups. <i>Spring.</i></p>	<p><b>SOW 4705</b> HPA-SOWK 3(3,0)  <b>Prevention and Treatment of Adolescent Substance Abuse:</b> 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. <i>Even Fall, Spring.</i></p>
<p><b>SOP 3742</b> COS-PSYCH 3(3,0)  <b>Psychology of Women:</b> 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. <i>Fall, Spring.</i></p>	<p><b>SOW 4232</b> HPA-SOWK 3(3,0)  <b>Social Welfare Policies and Issues:</b> PR: SOW 3203 or equivalent. Development of skills needed to critically analyze social welfare goals, structures, and practices. Proposes improvements in societal resource systems. <i>Fall.</i></p>	<p><b>SOW 4706</b> HPA-SOWK 3(3,0)  <b>Intervention with Substance Abusers:</b> PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances. <i>Fall, Even Spring.</i></p>

## UCF Courses and Descriptions

- SOW 4730 HPA-SOWK 3(3,0)**  
**Documentation in Social Work Practice:** PR: SOW 3300 and SOW 3352. For Social Work majors only. Development of documentation skills for the delivery of social work services in various agency settings. *Fall.*
- SOW 5105 HPA-SOWK 3(3,0)**  
**Human Behavior and Social Environment I: Individual:** PR: Admission to MSW program. Study of human development and psychosocial functioning of individuals at various life stages with particular attention to implications of human diversity. *Fall.*
- SOW 5106 HPA-SOWK 3(3,0)**  
**Human Behavior and Social Environment II: Social Systems:** Study of the patterns and dynamics of families, groups, organizations, and communities from a social work and a systems perspective. *Spring.*
- SOW 5109 HPA-SOWK 3(3,0)**  
**Violence Against Women: A Global Perspective:** PR: Graduate status or C.I. An introduction to the types of violence that impact women from a global perspective. Community, political, and economic issues that support violence against women will be discussed by country, ethnic group(s) within countries, and religious principles. *Odd Spring.*
- SOW 5132 HPA-SOWK 3(3,0)**  
**Diverse Client Populations:** Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations. *Spring.*
- SOW 5235 HPA-SOWK 3(3,0)**  
**Social Welfare Policies and Services:** Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services. *Fall.*
- SOW 5305 HPA-SOWK 3(3,0)**  
**Social Work Practice I: Generalist Practice:** Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice. *Fall.*
- SOW 5306 HPA-SOWK 3(3,0)**  
**Social Work Practice II: Intervention Approaches:** Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs. *Spring.*
- SOW 5355 HPA-SOWK 3(3,0)**  
**Studies in Social Work Practice:** PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit. *Occasional.*
- SOW 5387 HPA-SOWK 3(3,0)**  
**nonprofit Resource Development:** PR: Admission to 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. *Occasional.*
- SOW 5404 HPA-SOWK 3(3,0)**  
**Social Work Research:** Study of group research designs in social work; quantitative analyses; and related ethical issues. *Fall.*
- SOW 5432 HPA-SOWK 3(3,0)**  
**Evaluating Social Work:** Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities. *Occasional.*
- SOW 5532 HPA-SOWK 2(2,0)**  
**Generalist Field Education I:** PR: Admission to MSW Prog/. Supervised practice of social work in an agency for 224 clock hours. Graded S/U. *Fall, Even Spring.*
- SOW 5533 HPA-SOWK 2(2,0)**  
**Generalist Field Education II:** PR: MSW. Continuation of SOW 5532 Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U. *Odd Fall, Spring.*
- SOW 5534 HPA-SOWK 1(1,0)**  
**Generalist Field Education Integrative Seminar I:** PR: Admission to MSW program. CR: SOW 5532. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. *Fall.*
- SOW 5546 HPA-SOWK 1(1,0)**  
**Generalist Field Education Integrative Seminar II:** PR: Admission to MSW program. CR: Generalist Field Education II. Continuation of generalist field education integrative seminar I to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. *Spring.*
- SOW 5603 HPA-SOWK 3(3,0)**  
**Social Work in Health Settings:** PR: Graduate standing or C.I. Study of social work roles, interventions, and issues related to helping clients in health settings. *Spring.*
- SOW 5604 HPA-SOWK 3(3,0)**  
**Medications in Social Work Practice:** PR: graduate standing, 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. *Spring.*
- SOW 5624 HPA-SOWK 3(3,0)**  
**Social Work Practice in Mexican Culture:** PR: C.I. The practice of social work in Mexican culture through cultural immersion, seminars, field visits and language instruction. *Occasional.*
- SOW 5625 HPA-SOWK 3(3,0)**  
**Social Work with Women:** Alternative approaches to the treatment of women in the urban setting. *Occasional.*
- SOW 5635 HPA-SOWK 3(3,0)**  
**Social Work Practice in Schools:** PR: Social Work Graduate standing or C.I. Study of knowledge, skills and abilities necessary for competent practice with students, their teachers, families, schools and communities. *Even Spring.*
- SOW 5642 HPA-SOWK 3(3,0)**  
**Aging In Social Situations:** PR: Admission to MSW program or Gerontology Certificate Program or C.I. Knowledge about elderly in social situations or environmental context. *Occasional.*
- SOW 5644 HPA-SOWK 3(3,0)**  
**Interventions with Elderly and Their Families:** PR: Admission to Gerontology graduate certification program or MSW program or CI. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations. *Even Spring.*
- SOW 5652 HPA-SOWK 3(3,0)**  
**Children Services in Social Work:** PR: Graduate standing. 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. *Even Spring.*
- SOW 5655 HPA-SOWK 3(3,0)**  
**Child Abuse: Treatment and Prevention:** The social worker's role and interventions with victims of child abuse and their family members. *Spring.*
- SOW 5662 HPA-SOWK 3(3,0)**  
**Strategies in Employee Assistance Programs:** Techniques for establishing, providing, and evaluating services to people with problems which affect job performance. *Occasional.*
- SOW 5670 HPA-SOWK 3(3,0)**  
**Gay and Lesbian Experience in American Society:** PR: seniors or graduate status. Sexual orientation in a cultural context: resources and policies affecting gay and lesbian people; and professional considerations in interventions with and for gay and lesbian clients. *Occasional.*
- SOW 5712 HPA-SOWK 3(3,0)**  
**Interventions with Substance Abusers:** Strategies for working with persons who abuse drugs, alcohol, and other substances. *Odd Fall, Spring.*
- SOW 5713 HPA-SOWK 3(3,0)**  
**Prevention and Treatment of Adolescent Substance Abuse:** PR: Graduate Status or C.I. An in-depth review of prevention, intervention and treatment of Adolescent Substance Abuse. *Even Spring.*
- SOW 5735 HPA-SOWK 3(3,0)**  
**Documentation Skills for Helping Professionals:** PR: MSW Social Work Students, C/I. Study of documentation skills and record keeping for helping professionals. *Occasional.*
- 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. *Odd Spring.*
- 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. *Occasional.*
- 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. *Occasional.*
- 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. *Fall, Spring.*
- SPA 3011L HPA-COMD 1(0,1)**  
**Speech Production lab:** PR: SPA 3112. CR: SPA 3011. Physiological and acoustic measurement of speech production Graded S/U. *Fall, Spring.*
- 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. *Fall, Spring.*
- SPA 3104 HPA-COMD 3(3,0)**  
**Neural Bases of Communication:** PR: SPA 3101. Structures and functions of the nervous system involved in communication and its disorders. *Fall, Spring.*



<p><b>SPA 3112</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Basic Phonetics:</b> CR: SPA 3112L. Physiological descriptions and visual notation of standard speech patterns and regional dialects. <i>Fall, Spring.</i></p>	<p><b>SPA 4321</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Aural Habilitation: Rehabilitation:</b> PR: SPA 4032, SPA 4400, SPA 4201. Principles and procedures in the use of residual hearing, auditory training, speech reading, and the use of hearing aids. <i>Fall, Spring.</i></p>	<p><b>SPA 4617</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Structure of American Sign Language:</b> PR: SPA 4612 and SPA 4613 or C.I. Study of phonologic, syntactic, semantic, and discourse structure of ASL, including an emphasis on the biological basis of language and communication. <i>Occasional.</i></p>
<p><b>SPA 3112L</b>      <b>HPA-COMD</b>      <b>1(0,1)</b>  <b>Basic Phonetics Lab:</b> CR: SPA 3112. Practice in the transcription of normal and deviant speech samples. Graded S/U. <i>Fall, Spring.</i></p>	<p><b>SPA 4400</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Language Disorders Across the Life Span:</b> PR: LIN 3717. Etiology, assessment, and management of language disorders in children, adolescents, and adults, including those associated with autism, traumatic brain injury, learning disabilities, and dementia. <i>Fall, Spring.</i></p>	<p><b>SPA 4626</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Fingerspelling:</b> PR: SPA 4612 and SPA 4613 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels. <i>Occasional.</i></p>
<p><b>SPA 3123</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Speech Science II: Perception:</b> PR: SPA 3112, SPA 3011. CR: SPA 3123L. How the perception of human speech differs from that of other auditory signals. <i>Fall, Spring.</i></p>	<p><b>SPA 4476</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Speech Disorders Across the Lifespan:</b> PR: SPA 3002, SPA 3101, and SPA 3112. Causes and characteristics of speech and swallowing disorders in children and adults, including those affecting articulation, phonation, resonance, fluency, and feeding swallowing. <i>Fall, Spring.</i></p>	<p><b>SPA 4628</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Literature of Signed Languages:</b> PR: SPA 2631. Overview of literature produced by Deaf communities across the world, with emphasis on the American Deaf Community. Genres include poetry, narrative, historical and cultural prose. <i>Occasional.</i></p>
<p><b>SPA 3123L</b>      <b>HPA-COMD</b>      <b>1(0,1)</b>  <b>Speech Perception Lab:</b> CR: SPA 3123. Laboratory techniques used in investigating human speech perception. Graded S/U. <i>Fall, Spring.</i></p>	<p><b>SPA 4478</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Multicultural Aspects: Communication Disorders &amp; Differences:</b> PR: LIN 3717. Cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native American. <i>Fall, Spring.</i></p>	<p><b>SPA 4634</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Educational Implications of Deafness:</b> PR: SPA 2631. Impact of deafness on the educational process. The impact of deafness on the individual, their family, and the classroom will be discussed. <i>Occasional.</i></p>
<p><b>SPA 3471</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Communication Disorders in Literature and Media:</b> PR: PSY 2012 or SYG 2000. Exploration of communication disorders in literature and media, emphasizing psychosocial, academic, vocational, and familial challenges as well as society's perceptions of individuals with communication disorders. <i>Fall, Spring.</i></p>	<p><b>SPA 4550C</b>      <b>HPA-COMD</b>      <b>5(3,2)</b>  <b>Clinical Methods in Communicative Disorders:</b> PR: SPA 4201 and SPA 4400. The principles and techniques of case management with an emphasis on designing individualized treatment programs for individuals with communication disorders. Students will complete 25 observation hours. <i>Fall, Spring.</i></p>	<p><b>SPA 4652</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Ethics of Interpreting Sign Language:</b> PR: SPA 4612, SPA 4613, SPA 4614C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings. <i>Occasional.</i></p>
<p><b>SPA 3472</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Guidance of Young Children with Communicative Disorders:</b> PR: SPA 3002. Social/emotional and behavioral difficulties of children with communication disorders; positive child guidance and behavioral management strategies for clinicians and parents. <i>Fall, Spring.</i></p>	<p><b>SPA 4555</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Counseling in Communicative Disorders:</b> PR: SPA 4550C. Practical interviewing and counseling in the area of Communicative Disorders. <i>Spring.</i></p>	<p><b>SPA 4660C</b>      <b>HPA-COMD</b>      <b>4(3,1)</b>  <b>Interactive Interpreting I:</b> PR: SPA 4612, SPA 4613 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter's role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations. <i>Occasional.</i></p>
<p><b>SPA 3621</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Introduction to Signed English and Culture of the Deaf:</b> Vocabulary and grammar through introductory level. Conceptual basis of ASL discussed. <i>Occasional.</i></p>	<p><b>SPA 4559</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Augmentative and Alternative Communication Systems:</b> PR: LIN 3717. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. <i>Occasional.</i></p>	<p><b>SPA 4662C</b>      <b>HPA-COMD</b>      <b>4(3,1)</b>  <b>Interactive Interpreting II:</b> PR: SPA 4660C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL. <i>Occasional.</i></p>
<p><b>SPA 3632</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Communicative Disorders in the Deaf and Hard of Hearing Population:</b> PR: SPA 2631 or C.I. Speech, language, and hearing problems in the D/HH population, including etiology, pathology, and management of hearing disorders. <i>Occasional.</i></p>	<p><b>SPA 4612</b>      <b>HPA-COMD</b>      <b>4(4,0)</b>  <b>Introduction to American Sign Language:</b> Development of ASL vocabulary and grammar. Deaf culture, literature, research examined. <i>Fall, Spring.</i></p>	<p><b>SPA 4803</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Research Methods in Communication Sciences and Disorders:</b> PR: STA 2014C or STA 2023. Approaches, methods, and techniques of research in Communication Sciences and Disorders are considered through lecture, discussion, and group participation. <i>Fall, Spring.</i></p>
<p><b>SPA 4032</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Audiology:</b> PR: SPA 3123. Physics of sound, anatomy of hearing mechanism, pure tone audiometry, hearing aids, problems of the deaf and hard of hearing. Clinical Skills development required. <i>Fall, Spring.</i></p>	<p><b>SPA 4613</b>      <b>HPA-COMD</b>      <b>4(4,0)</b>  <b>Intermediate American Sign Language:</b> PR: SPA 4612. Expansion of ASL vocabulary with increased development of knowledge concerning Deaf culture. <i>Fall, Spring.</i></p>	<p><b>SPA 4948</b>      <b>HPA-COMD</b>      <b>3(0,3)</b>  <b>Community Internship:</b> PR: SPA 4550C and Senior Status. Supervised interaction and planned activities with individuals experiencing communication disorders in community settings, including Head Start, public schools, clinics, skilled nursing and assisted living facilities. <i>Fall, Spring.</i></p>
<p><b>SPA 4052L</b>      <b>HPA-COMD</b>      <b>3(0,3)</b>  <b>Undergraduate Clinical Practicum:</b> PR: SPA 4550C; either SPA 4400 or SPA 4476, and Senior Status. Students must apply and be invited to enroll in practicum. Supervised clinical practicum for select undergraduate students in the management of language or articulation disorders. <i>Fall, Spring.</i> M&amp;S fee: \$45.00</p>	<p><b>SPA 4614C</b>      <b>HPA-COMD</b>      <b>4(3,1)</b>  <b>American Sign Language III:</b> PR: SPA 4613. Conversation. Emphasis on refining fluency receptively and expressively. Practicum with the deaf community. <i>Occasional.</i></p>	<p><b>SPA 5327</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Aural Habilitation/Rehabilitation:</b> PR: SPA 6204, SPA 6401. Principles and procedures involved in speech and language acquisition, management, utilization of residual hearing, speech reading, and the use of hearing aids. <i>Occasional.</i></p>
<p><b>SPA 4201</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Articulation And Phonological Disorders:</b> PR: SPA 3002, SPA 3112. The etiology, assessment, and management of articulation and phonological disorders, including those associated with structural variations and neuromotor disorders. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>SPA 4615</b>      <b>HPA-COMD</b>      <b>4(4,0)</b>  <b>American Sign Language IV:</b> PR: SPA 4614C or consent of instructor. Advanced study in complex grammar, facial expression, metaphorical and idiomatic vocabulary, emphasizing production of non-voiced, conversational, spontaneous signed sentences, "reading" signed phrases and sentences. <i>Occasional.</i></p>	<p><b>SPA 5473</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Multicultural Aspects of Communication Differences and Disorders:</b> PR: Graduate standing. Introduction to cultural and linguistic diversity among individuals with communication differences and disorders. Special emphasis on African, Hispanic, Asian, and Native-American cultures. <i>Occasional.</i></p>
<p><b>SPA 4241</b>      <b>HPA-COMD</b>      <b>3(3,0)</b>  <b>Genetic Aspects of Communication Disorders:</b> PR: BSC 2010C, Junior or senior standing. Theoretical framework for understanding human genetics and the genetic aspects of communication and feeding disorders. <i>Spring.</i></p>		

## UCF Courses and Descriptions

SPA 5477	HPA-COMD	3(3,0)	SPC 1016	COS-COMM	3(3,0)	SPN 1121	CAH-LANG	4(4,1)
<b>Aging and Communication:</b> 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. <i>Occasional.</i>			<b>Fundamentals of Technical Presentations:</b> Communication theory and its application to preparing and delivering technical information in public speaking situations. <i>Fall, Spring.</i>			<b>Elementary Spanish Language and Civilization II:</b> PR: SPN 1120 or equivalent. Continuation of SPN 1120. <i>Fall, Spring.</i>		
SPA 5559	HPA-COMD	3(3,0)	SPC 1016H	COS-COMM	3(3,0)	SPN 1130H	CAH-LANG	4(4,1)
<b>Augmentative and Alternative Communication Systems:</b> 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. <i>Fall, Spring.</i>			<b>Honors Fundamentals of Technical Presentation:</b> PR: Permission of Honors. Communication theory and its application to preparing and delivering technical information in public speaking situations. With honors-level content. <i>Occasional.</i>			<b>Honors Elementary Spanish Language and Civilization I:</b> 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. <i>Occasional.</i>		
SPA 5561	HPA-COMD	3(3,0)	SPC 1600	COS-COMM	3(3,0)	SPN 1131H	CAH-LANG	4(4,1)
<b>Counseling in Communicative Disorders:</b> PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families. <i>Spring.</i>			<b>Fundamentals of Oral Communication:</b> Communication theory and its application to preparing and delivering public speeches. <i>Fall, Spring.</i>			<b>Honors Elementary Spanish Language and Civilization II:</b> PR: Permission of Honors and SPN 1130H or equivalent. Same as SPN 1121 with honors-level content. <i>Occasional.</i>		
SPA 5570	HPA-COMD	3(3,0)	SPC 1600H	COS-COMM	3(3,0)	SPN 1170	CAH-LANG	8(16,10)
<b>Administration and Management of Communicative Disorders Programs:</b> 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. <i>Occasional.</i>			<b>Honors Fundamentals of Oral Communication:</b> PR: Consent of Honors. Communication theory and its application to preparing and delivering public speeches. University Honors program. Same as SPC 1600 with honors-level content. <i>Occasional.</i>			<b>Elementary Spanish Study Abroad:</b> Elementary Spanish language and civilization taught in the native environment. <i>Occasional.</i>		
SPB 3003	BA-BUS	3(3,0)	SPC 3301	COS-COMM	3(1,2)	SPN 2200	CAH-LANG	3(3,1)
<b>Introduction to Sport Business Management:</b> PR: Admission to a business major. The sport industry and the principles and applications of sport business management in professional, collegiate, and Olympic sport. <i>Occasional.</i>			<b>Interpersonal Communication:</b> 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. <i>Fall, Spring.</i>			<b>Intermediate Spanish Language and Civilization I:</b> PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Fall, Spring.</i>		
SPB 3503	BA-BUS	3(3,0)	SPC 3425C	COS-COMM	3(2,1)	SPN 2200H	CAH-LANG	3(3,1)
<b>Ethics in Sport Business:</b> PR: SPB 3003. The ethics and moral issues in sport and their business implications focusing on the responsibilities of decision makers in professional, collegiate, and Olympic sport. <i>Occasional.</i>			<b>Group Interaction and Decision-Making:</b> PR: COM 3311. A study of small group processes. Attention is given to problem solving, leadership emergence, conformity behavior, and group member role responsibilities. <i>Odd Fall, Spring.</i>			<b>Honors Intermediate Spanish:</b> PR: SPN 1121 or SPN 1131H and Consent of Honors. Development of language skills and cultural knowledge at the intermediate level. With Honors content. <i>Fall.</i>		
SPB 3603	BA-BUS	3(3,0)	SPC 3513	COS-COMM	3(1,2)	SPN 2201	CAH-LANG	3(3,1)
<b>Diversity and Social Issues in Sport Business Management:</b> PR: SPB 3003. Diversity, social issues, social responsiveness, and financial performance in professional, collegiate, and Olympic sport. <i>Occasional.</i>			<b>Argumentation and Debate:</b> PR: SPC 1600 or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization. <i>Occasional.</i>			<b>Intermediate Spanish Language and Civilization II:</b> PR: SPN 2200 or equivalent. Continuation of SPN 2200, with emphasis on Spanish civilization. <i>Occasional.</i>		
SPB 4104	BA-BUS	3(3,0)	SPC 3602	COS-COMM	3(1,2)	SPN 2240	CAH-LANG	3(3,1)
<b>Intercollegiate Sport Industry:</b> PR: SPB 3003. The structure, evolution and governance of intercollegiate sport management and a framework for sound business decision making. <i>Occasional.</i>			<b>Advanced Public Speaking:</b> 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. <i>Occasional.</i>			<b>Intensive Spanish Conversation:</b> PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level. <i>Occasional.</i>		
SPB 4204	BA-BUS	3(3,0)	SPC 4331	COS-COMM	3(3,0)	SPN 2241	CAH-LANG	3(3,0)
<b>Professional Sport Industry:</b> PR: SPB 3003. The structure, evolution and governance of professional sport management and a framework for sound business decision making. <i>Occasional.</i>			<b>Nonverbal Communication:</b> 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. <i>Fall, Spring.</i>			<b>Spanish Conversation:</b> PR: SPN 2201 or equivalent. Development of skills in conversation and comprehension through practice. <i>Occasional.</i>		
SPB 4304	BA-BUS	3(3,0)	SPC 4426	COS-COMM	3(3,0)	SPN 2340	CAH-LANG	3(3,0)
<b>Sports Event and Facility Management:</b> PR: SPB 3003. The principles of facility and event management in sport business and their applications in professional, collegiate, and Olympic sport. <i>Occasional.</i>			<b>Group Dynamics:</b> PR: COM 3311. Human behavior in group situations. <i>Fall, Even Spring.</i>			<b>Spanish for Native Speakers:</b> PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language. <i>Occasional.</i>		
SPB 4404	BA-BUS	3(3,0)	SPC 4540	COS-COMM	3(3,0)	SPN 2511	CAH-LANG	3(3,0)
<b>Sport Business Law:</b> PR: SPB 3003. The legal framework for sport business management and its applications in professional, collegiate, and Olympic sport. <i>Occasional.</i>			<b>Attitudes and Communication:</b> PR: COM 3311. A survey of the immediate and direct ways in which persuasive communications and social groups come to influence attitudes. <i>Fall, Spring.</i>			<b>Modern Spanish Civilization Abroad:</b> 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. <i>Occasional.</i>		
SPB 4704	BA-BUS	3(3,0)	SPN 1120	CAH-LANG	4(4,1)	SPN 3140	CAH-LANG	3(3,0)
<b>Sport Business Strategy:</b> PR: SPB 3003. The skills and knowledge applicable to the process of building and sustaining excellent sport organizations. <i>Occasional.</i>			<b>Elementary Spanish Language and Civilization I:</b> 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. <i>Fall, Spring.</i>			<b>Business Spanish I:</b> PR: SPN 2200 and SPN 2201 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World. <i>Odd Fall.</i>		
SPB 4804	BA-BUS	3(3,0)				SPN 3141	CAH-LANG	3(3,0)
<b>Sport Business and Media:</b> PR: SPB 3003. The structure and evolution of the interrelationship between sport and media and their business implications. <i>Occasional.</i>						<b>Business Spanish II:</b> PR: C.I. Continuation of Business Spanish I. <i>Even Spring.</i>		
						SPN 3142	CAH-LANG	3(3,0)
						<b>Business Spanish III:</b> PR: C.I. Continuation of Business Spanish II. <i>Even Fall.</i>		

**SPN 3234 CAH-LANG 3(3,0)**  
**Advanced Directed Readings:** PR: SPN 2200 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers. *Fall, Spring.*

**SPN 3300 CAH-LANG 3(3,0)**  
**Advanced Spanish Grammar and Composition:** PR: SPN 2201 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts. *Fall, Spring.*

**SPN 3341 CAH-LANG 3(3,0)**  
**Advanced Spanish for Native Speakers:** PR: SPN 2340 or C.I. This course is the continuation of SPN 2340 geared towards native speakers and will complete the remaining grammatical topics as well as emphasize composition skills. *Occasional.*

**SPN 3343 CAH-LANG 3(3,0)**  
**Advanced Rhetoric for Native Speakers:** PR: Third year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only. *Occasional.*

**SPN 3344 CAH-LANG 3(3,0)**  
**Advanced Spanish Native Fluency I:** PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers. *Fall.*

**SPN 3345 CAH-LANG 3(3,0)**  
**Advanced Spanish Native Fluency II:** PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I emphasizing the remaining grammatical topics and composition skills. *Spring.*

**SPN 3402 CAH-LANG 3(3,0)**  
**Practice in Modern Spanish Grammar:** PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts. *Occasional.*

**SPN 3420 CAH-LANG 3(3,0)**  
**Spanish Composition:** PR: SPN 2201 or equivalent. Development of skills in composition. *Fall, Spring.*

**SPN 3512 CAH-LANG 3(3,0)**  
**Contemporary Spanish Culture Abroad:** PR: SPN 2241 or SPN 3420. This course will focus on contemporary Spanish culture presented through classroom lectures and discussions, assigned reading and scheduled activities. *Occasional.*

**SPN 3760 CAH-LANG 3(3,0)**  
**Advanced Spanish Oral Communication:** PR: SPN 2201 or SPN 2240 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. *Fall, Spring.*

**SPN 3850 CAH-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. *Occasional.*

**SPN 3852 CAH-LANG 3(3,0)**  
**Bilingualismo:** PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. Spanish-English bilingualism in the United States. Models of language acquisition in bilinguals, domains of language use, maintenance, shift, transfer, diversity, attitudes, code-switching, attrition and contact. *Occasional.*

**SPN 3933 CAH-LANG 1(1,0)**  
**Spanish Across the Curriculum:** PR: SPN 2201 or C.I. CR:concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit. *Fall, Spring.*

**SPN 4143 CAH-LANG 3(3,0)**  
**Business Spanish IV:** PR: C.I. Advanced course in business terminology and development of advanced language skills. *Odd Spring.*

**SPN 4410 CAH-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. *Fall.*

**SPN 4421 CAH-LANG 3(3,0)**  
**Advanced Spanish Composition:** PR: SPN 3300, SPN 3420, SPN 3760 or C.I. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. *Even Spring.*

**SPN 4510 CAH-LANG 3(3,0)**  
**Spanish Civilization and Culture:** PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. A study of Spanish civilization and culture from Pre-Roman times to the present. Conducted in Spanish. *Occasional.*

**SPN 4520 CAH-LANG 3(3,0)**  
**Latin American Civilization and Culture:** PR: SPN 3760, 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. *Occasional.*

**SPN 4780 CAH-LANG 3(3,0)**  
**Spanish Phonetics:** PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Students will learn the basic principles of Spanish pronunciation and perfect the correct punctuation of Spanish through intensive practice and oral drill. *Occasional.*

**SPN 4800 CAH-LANG 3(3,0)**  
**Spanish-American Syntax:** PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. The course examines the Spanish language from its beginning to the present, with special emphasis as it is written and spoken in Latin America and the U.S. *Occasional.*

**SPN 4801 CAH-LANG 3(3,0)**  
**Spanish Morphosyntax:** PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criterion when analyzing texts. Taught in Spanish. *Occasional.*

**SPN 5502 CAH-LANG 3(3,0)**  
**Hispanic Culture of the United States:** PR: Graduate status or senior standing or C.I. An analysis of the Hispanic culture of the United States, past and present. *Occasional.*

**SPN 5505 CAH-LANG 3(3,0)**  
**Spanish Peninsular Culture and Civilization:** PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish culture and civilization. *Occasional.*

**SPN 5506 CAH-LANG 3(3,0)**  
**Spanish American Culture and Civilization:** PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish American culture and civilization. *Occasional.*

**SPN 5705 CAH-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. *Odd Fall.*

**SPN 5825 CAH-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. *Occasional.*

**SPN 5845 CAH-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. *Occasional.*

**SPN 5920 CAH-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. *Occasional.*

**SPT 3800 CAH-LANG 3(3,0)**  
**Spanish Translation and Interpretation:** PR: Completion of 2000 level sequence or equivalent. Introduction to translation and interpretation, practical applications of theory applied to professional written and audio texts from Spanish to English and from English to Spanish. *Fall, Spring.*

**SPT 3805 CAH-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. *Even Spring.*

**SPT 3809 CAH-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. *Odd Fall.*

**SPT 3831 CAH-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. *Even Fall.*

**SPT 4801 CAH-LANG 3(3,0)**  
**Spanish Translation Practicum:** PR: SPT 3800. Development of translation and interpretation skills in a professional environment. Concentration in legal, medical, and business areas. *Occasional.*

**SPW 3000H CAH-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. *Occasional.*

**SPW 3100 CAH-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. *Fall.*

## UCF Courses and Descriptions

SPW 3101	CAH-LANG	3(3,0)	SPW 4450	CAH-LANG	3(3,0)	SSE 5776	ED-TLP	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. <i>Spring.</i>			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. <i>Occasional.</i>			Democracy and Education: PR: Graduate standing or C.I. Explores the intersection of theory and practice with regard to promoting democratic life in schools. Will examine competing theories of democracy and education, investigate problem areas in schools related to democracy, and consider examples of practice. <i>Fall.</i>		
SPW 3130	CAH-LANG	3(3,0)	SPW 4460	CAH-LANG	3(3,0)	SSE 5790	ED-TLP	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. <i>Fall.</i>			Nineteenth Century Spanish Literature: PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism. <i>Occasional.</i>			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. <i>Occasional.</i>		
SPW 3131	CAH-LANG	3(3,0)	SPW 4600	CAH-LANG	3(3,0)	STA 1060C	COS-STAT	3(2,1)
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. <i>Spring.</i>			Cervantes: PR: SPW 3100 or C.I. Don Quixote. <i>Occasional.</i>			Basic Statistics Using Microsoft Excel: Applications of Excel; manipulating data; single variable graphs and statistics; scatterplots; probability distributions; statistical inference. <i>Fall, Spring.</i>		
SPW 3320	CAH-LANG	3(3,0)	SPW 4720	CAH-LANG	3(3,0)	STA 2014C	COS-STAT	3(2,1)
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. <i>Occasional.</i>			The Generation of 1898: PR: SPW 3101 or C.I. A study of the generation's main authors and their works. <i>Occasional.</i>			Principles of Statistics: 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. <i>Fall, Spring.</i>		
SPW 3321	CAH-LANG	3(3,0)	SPW 4730	CAH-LANG	3(3,0)	STA 2023	COS-STAT	3(3,0)
Modern Hispanic Theatre Workshop II: PR: SPW 3320. Participation in a theatre production of a play in Spanish. Open to majors in Spanish, Theatre and any technical performance. <i>Occasional.</i>			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. <i>Occasional.</i>			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. <i>Fall, Spring.</i>		
SPW 3370	CAH-LANG	3(3,0)	SPW 4770	CAH-LANG	3(3,0)	STA 2023H	COS-STAT	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. <i>Occasional.</i>			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. <i>Occasional.</i>			Honors Statistical Methods I: PR: Permission of Honors; Calculus desired but not necessary. Same as STA 2023 with honors-level content. <i>Fall, Spring.</i>		
SPW 4272	CAH-LANG	3(3,0)	SPW 4772	CAH-LANG	3(3,0)	STA 3032	ECS-IEMS	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. <i>Occasional.</i>			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. <i>Occasional.</i>			Probability and Statistics for Engineers: PR: MAC 2312 and computer programming. Axioms of probability; combinatorial and geometrical probability; probability distributions; measures of location and dispersion; sampling and sampling distributions; estimation and tests of hypotheses; engineering applications. <i>Fall, Spring.</i>		
SPW 4310	CAH-LANG	3(3,0)	SPW 4773	CAH-LANG	3(3,0)	STA 3032H	ECS-IEMS	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. <i>Occasional.</i>			Puerto Rican Literature: PR: SPW 3100 and SPW 3101 or SPW 3130 and SPW 3131. Puerto Rican Literature from XIX Century to present. Conducted in Spanish. <i>Occasional.</i>			Honors Probability and Statistics for Engineers: PR: MAC 2312 and honors standing. Fundamental probability and statistics principles, the underlying assumptions, the procedures for implementing and interpreting them. With honors content. <i>Fall, Spring.</i>		
SPW 4322	CAH-LANG	3(3,0)	SPW 5741	CAH-LANG	3(3,0)	STA 3096	COS-STAT	3(3,0)
Contemporary Iberian Theatre: PR: SPW 3101 or C.I. A study of the major playwrights and tendencies in contemporary Iberian theatre. <i>Occasional.</i>			Contemporary Spanish American Southern Cone Literature: PR: Enrolled in Spanish M.A. Program or C.I. Regional as well as international literary cultures and disciplines in southern cone literature. <i>Occasional.</i>			Statistical Graphics: PR: STA 2023 or STA 3032 and a knowledge of a programming language. Principles of graph construction, graphical perception, graphical methods, computer programs for graph construction. <i>Occasional.</i>		
SPW 4364	CAH-LANG	3(3,0)	SSE 3312	ED-TLP	3(3,0)	STA 4102	COS-STAT	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. <i>Occasional.</i>			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. <i>Fall, Spring.</i>			Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Use of packages such as SAS, BMD, SPSS for data validation, description and analysis of data, regression and analysis of variance and covariance. <i>Fall.</i>		
SPW 4381	CAH-LANG	3(3,0)	SSE 4361	ED-TLP	4(4,0)	STA 4130	COS-STAT	3(3,0)
Latin-American Theatre/Poetry: PR: SPW 3100 or SPW 3101 or SPW 3130 or SPW 3131 or SPW 3370. Study of Latin-American theatre/poetry (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes. <i>Occasional.</i>			Social Science Instructional Analysis: PR: EDG 4323 or C.I.; CR: ESE 3940 or C.I. Analysis of secondary (grades 6-12) social science instructional programs including development of objectives, materials, processes, and assessment procedures in light of current research and practice. <i>Fall, Spring.</i>			Life Contingencies I: PR: STA 4183 (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. <i>Fall.</i>		
SPW 4382	CAH-LANG	3(3,0)	SSE 5115	ED-TLP	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. <i>Occasional.</i>			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. <i>Fall.</i>					
			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 theoretically grounded teaching strategies for engaging students in global education. <i>Spring.</i>					

**STA 4131**      **COS-STAT**      **3(3,0)**  
**Life Contingencies II:** PR: STA 4130 (new number STA 4130?). Multiple-decrement and multi-life models. Insurance models including expenses. Modified reserves. Cash values, insurance options and asset shares. Non forfeiture benefits and dividends. *Spring.*

**STA 4163**      **COS-STAT**      **3(3,0)**  
**Statistical Methods II:** PR: STA 2023 or STA 3032. Not open to students with credit in STA 4165. Methods of analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods. *Fall, Spring.*

**STA 4164**      **COS-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. *Fall, Spring.*

**STA 4173**      **COS-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. *Occasional.*

**STA 4183**      **COS-STAT**      **3(3,0)**  
**Theory of Interest:** PR: MAC 2312 (or equivalent) and STA 2023. Measurement of simple and compound interests, accumulated and present values factors. Annuities certain, yield rates, amortization schedules and sinking funds. Bonds, securities and related funds. *Fall.*

**STA 4187**      **COS-STAT**      **3(3,0)**  
**Theory of Graduation:** PR: STA 4322. Graduation, moving weighted averages methods, Whitaker-Henderson, Bayesian and parametric methods, smooth-junction formula, graduation of selected data. *Occasional.*

**STA 4222**      **COS-STAT**      **3(3,0)**  
**Sample Survey Methods:** PR: STA 2023 or STA 3032. Constructing and analyzing survey designs. Sampling and non-sampling errors. Simple random, stratified, systematic, and multiphase sampling. Methods of estimation. *Occasional.*

**STA 4321**      **COS-STAT**      **3(3,0)**  
**Statistical Theory I:** PR: STA 2023 or STA 3032; CR: MAC 2313. Probability axioms, discrete and continuous sample spaces, conditional probability, independence, one-dimensional random variables, moment generating functions, transformations, jointly distributed random variables. *Fall.*

**STA 4322**      **COS-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. *Spring.*

**STA 4502**      **COS-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. *Occasional.*

**STA 4504**      **COS-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. *Occasional.*

**STA 4641**      **COS-STAT**      **3(3,0)**  
**Risk Theory and Decision:** PR: STA 4322. Individual and collective risk models for short terms and for extended periods, applications of risk theory to actuarial problems. Risk factors and their financial effects. *Occasional.*

**STA 4664**      **COS-STAT**      **3(3,0)**  
**Statistical Quality Control:** PR: STA 2023 or STA 3032. Statistical concepts and methods applied to the control of quality of manufactured products. *Occasional.*

**STA 4672**      **COS-STAT**      **3(3,0)**  
**Actuarial Statistical Methods:** PR: STA 2023 and STA 4183. Regression and time series analysis of insurance and financial data. *Occasional.*

**STA 4675**      **COS-STAT**      **3(3,0)**  
**Demographic Statistics:** PR: STA 4322. Measures of mortality, fertility and morbidity. Construction methods of life tables from census data, population projection techniques, stability and stationarity of demographic populations. *Occasional.*

**STA 4676**      **COS-STAT**      **3(3,0)**  
**Life Testing Analysis:** PR: STA 4322. Models of survival analysis including random and non-random censoring and truncation. Parametric estimation of life distribution. Nonparametric methods. Grouped data. *Occasional.*

**STA 4852**      **COS-STAT**      **3(3,0)**  
**Applied Time Series:** PR: STA 4163. Forecasting methods, time series analysis, stationary and nonstationary time series, ARIMA models, forecasting processes. *Occasional.*

**STA 4939**      **COS-STAT**      **3(3,0)**  
**Problems in Actuarial Science:** PR: STA 4322. Fundamental mathematical and statistical tools for quantitatively assessing risk; application of these tools to problems in actuarial science. May be repeated for credit. *Occasional.*

**STA 4942**      **COS-STAT**      **3(3,0)**  
**Practicum in Actuarial Science:** PR: STA 4183 or STA 5185. Discussion and presentation by actuarial practitioners. *Occasional.*

**STA 5085**      **COS-STAT**      **3(3,0)**  
**Analytical Reasoning:** PR: Graduate standing. Concepts in probability and statistics through case studies. Seminar and telecommunications format. Analytical/logical thinking in context. *Occasional.*

**STA 5103**      **COS-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. *Fall.*

**STA 5139**      **COS-STAT**      **3(3,0)**  
**Credibility Theory and Loss Distribution:** PR: STA 4322, graduate status or senior standing, or C.I. Full and partial credibility. The credibility premium. Exact credibility. Parametric and nonparametric estimation of credibility. Loss models for claim severities and frequencies. Aggregate claims models. *Fall.*

**STA 5175**      **COS-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. *Spring.*

**STA 5176**      **COS-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. *Occasional.*

**STA 5185**      **COS-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. *Fall.*

**STA 5205**      **COS-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. *Spring.*

**STA 5206**      **COS-STAT**      **3(3,0)**  
**Statistical Analysis:** PR: STA 2023; not open to students who have completed STA 4164. Graduate status or senior standing or C.I. Data analysis; statistical models; estimation; tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods. *Fall.*

**STA 5505**      **COS-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 loglinear modeling, logistic regression, McNemar's Test, Mantel-Haenszel test. *Occasional.*

**STA 5646**      **COS-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 issues. Reserves for insurance and loss adjustment expenses. Investment income. *Occasional.*

**STA 5703**      **COS-STAT**      **3(3,0)**  
**Data Mining Methodology I:** PR: STA 5103 and STA 5206, graduate status or senior standing, or C.I. Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access). Process with neural network and decision tree. *Fall.*

**STA 5825**      **COS-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, queueing theory, and simple stochastic processes. *Spring.*

**STA 5940**      **COS-STAT**      **1(1,0)**  
**Statistical Advice for Researchers:** PR: Graduate status or senior standing or C.I. Discussion of student-supplied statistical problem, data sources, sampling techniques, computer package usage, analysis, interpretation. May be repeated for credit. Graded S/U. *Occasional.*

**SUR 2101C**      **ECS-CEE**      **3(2,3)**  
**Surveying:** PR: MAC 2311 and Junior standing. Theory and field practice in surveying measurements and the reduction and adjustment of field data. *Spring.*

## UCF Courses and Descriptions

<p><b>SYA 3110</b> COS-SOC 3(3,0)  <b>The Development of Social Thought:</b> 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. <i>Spring.</i></p>	<p><b>SYD 3750</b> COS-SOC 3(3,0)  <b>Contemporary Social Issues and North American Indians:</b> 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. <i>Occasional.</i></p>	<p><b>SYG 2000H</b> COS-SOC 3(3,0)  <b>General Sociology:</b> PR: Permission of Honors. Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology. <i>Fall, Spring.</i></p>
<p><b>SYA 3120</b> COS-SOC 3(3,0)  <b>Modern Sociological Thought:</b> 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. <i>Occasional.</i></p>	<p><b>SYD 3751</b> COS-SOC 3(3,0)  <b>North American Indian Women Today:</b> PR: 2000 level social science course or C.I. Examination of works of modern North American Indian women within context of sovereign rights. Issues include myths, gender roles, coerced sterilization, child welfare, and economic opportunities. <i>Occasional.</i></p>	<p><b>SYG 2010</b> COS-SOC 3(3,0)  <b>Social Problems:</b> Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence. <i>Fall, Spring.</i></p>
<p><b>SYA 3400</b> COS-SOC 4(3,1)  <b>Research Methods and Statistics:</b> PR: SYG 2000 and one other sociology course. <i>Fall.</i></p>	<p><b>SYD 3752</b> COS-SOC 3(3,0)  <b>Modern Law in Indian Country:</b> 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. <i>Occasional.</i></p>	<p><b>SYG 3949</b> COS-SOC 0(0,8)  <b>Cooperative Education in Sociology:</b> PR: Departmental permission required before registering. Cooperative education experience in sociology. May be repeated. Graded S/U. <i>Occasional.</i></p>
<p><b>SYA 4112</b> COS-SOC 3(3,0)  <b>The Thought and Writings of W.E.B. Du Bois:</b> PR: SYG 2000 or SYG 2010. The sociological/social scientific contributions of W.E.B. Du Bois. <i>Occasional.</i></p>	<p><b>SYD 3800</b> COS-SOC 3(3,0)  <b>Sex Roles in Modern Society:</b> The traditional and changing roles of women and men viewed in a sociological perspective. <i>Fall, Spring.</i></p>	<p><b>SYO 3000</b> COS-SOC 3(3,0)  <b>Modern Sociology:</b> 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. <i>Occasional.</i></p>
<p><b>SYA 4300</b> COS-SOC 4(3,2)  <b>Research Methods:</b> 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. <i>Fall.</i></p>	<p><b>SYD 4020</b> COS-SOC 3(3,0)  <b>Population:</b> Concerned with the study of human population, its distribution, composition, and change. <i>Occasional.</i></p>	<p><b>SYO 3360</b> COS-SOC 3(3,0)  <b>Social Organization and Human Relations:</b> Analysis of business, government, and industrial organizations. Topics include organizational theory, social systems, social structure, effects of technology, motivation, leadership, decision-making, and human relations. <i>Occasional.</i></p>
<p><b>SYA 4314C</b> COS-SOC 4(3,1)  <b>Qualitative Research Analysis in Sociology:</b> PR: SYA 4300. Advanced research design and analysis focusing on qualitative research methodologies in sociology. Emphasizes data collection, management, analysis, interpretation, integration, presentation, and report writing. <i>Occasional.</i></p>	<p><b>SYD 4510</b> COS-SOC 3(3,0)  <b>Environmental Sociology:</b> PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment. <i>Odd Spring.</i></p>	<p><b>SYO 3410</b> COS-SOC 3(3,0)  <b>Sociology of Mental Illness:</b> A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions. <i>Occasional.</i></p>
<p><b>SYA 4450</b> COS-SOC 4(3,2)  <b>Data Analysis:</b> PR: SYA 4300 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. <i>Spring.</i></p>	<p><b>SYD 4514</b> COS-SOC 3(3,0)  <b>Environmental Movement:</b> PR: SYG 2000 or SYG 2010 or C.I. Origins, evolution, current status and societal impacts of the environmental movement via sociological theory, concepts and research on social movements. <i>Occasional.</i></p>	<p><b>SYO 3530</b> COS-SOC 3(3,0)  <b>Social Stratification:</b> PR: SYG 2000 or C.I. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change. <i>Occasional.</i></p>
<p><b>SYA 4650C</b> COS-SOC 3(2,2)  <b>Applied Sociology:</b> PR: SYG 2000 or SYG 2010 or C.I. Utilization of sociological principles in the treatment of practical human problems and organization. <i>Occasional.</i></p>	<p><b>SYD 4810</b> COS-SOC 3(3,0)  <b>Women in Contemporary Society:</b> 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). <i>Fall, Spring.</i></p>	<p><b>SYO 4100</b> COS-SOC 3(3,0)  <b>Family Trends:</b> PR: SYG 2000 or SYG 2010 or C.I. Intimate relationships, practices, trends and issues affecting today's marriages and families. <i>Fall, Spring.</i></p>
<p><b>SYA 5625</b> COS-SOC 3(3,0)  <b>ProSeminar:</b> 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. <i>Fall.</i></p>	<p><b>SYD 4813</b> COS-SOC 3(3,0)  <b>Women and Social Policy:</b> 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. <i>Occasional.</i></p>	<p><b>SYO 4200</b> COS-SOC 3(3,0)  <b>Sociology of Religion:</b> 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. <i>Occasional.</i></p>
<p><b>SYA 5652</b> COS-SOC 3(3,0)  <b>Advanced Population:</b> 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. <i>Occasional.</i></p>	<p><b>SYD 5517</b> COS-SOC 3(3,0)  <b>Environment and Society:</b> PR: Graduate standing or C.I. The application of sociological theory and methods to the relationships between communities, societies, and the environment. <i>Occasional.</i></p>	<p><b>SYO 4250</b> COS-SOC 3(3,0)  <b>Sociology of Education:</b> 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. <i>Occasional.</i></p>
<p><b>SYD 3410</b> COS-SOC 3(3,0)  <b>Urban Sociology:</b> PR: SYG 2000 or C.I. Historical roots of urbanization. Analysis and impact of community change on social organizations in modern industrial societies. <i>Occasional.</i></p>	<p><b>SYD 5795</b> COS-SOC 3(3,0)  <b>Class, Race, and Gender in American Society:</b> 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. <i>Occasional.</i></p>	<p><b>SYO 4300</b> COS-SOC 3(3,0)  <b>Political Sociology:</b> Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government. <i>Occasional.</i></p>
<p><b>SYD 3700</b> COS-SOC 3(3,0)  <b>Race and Ethnic Minorities in the United States:</b> Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification. <i>Fall, Spring.</i></p>	<p><b>SYG 2000</b> COS-SOC 3(3,0)  <b>General Sociology:</b> 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. <i>Fall, Spring.</i></p>	<p><b>SYO 4400</b> COS-SOC 3(3,0)  <b>Medical Sociology:</b> Analysis of patient beliefs and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care. <i>Occasional.</i></p>

## UCF Courses and Descriptions

<p><b>SYP 3300</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Collective Behavior:</b> 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. <i>Occasional.</i></p>	<p><b>SYP 4000</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociological Social Psychology:</b> 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. <i>Occasional.</i></p>	<p><b>SYP 5525</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociological Criminology:</b> PR: Graduate status or senior standing or C.I. To examine current sociological knowledge and research on various issues in Criminology, and to further students' skills in developing/conducting research projects. <i>Occasional.</i></p>
<p><b>SYP 3400</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Social Change:</b> PR: SYG 2000 or SYG 2010 or C.I. Context and essential sources of social development and change. <i>Occasional.</i></p>	<p><b>SYP 4004</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Constructing Social Issues:</b> 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. <i>Occasional.</i></p>	<p><b>SYP 5564</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Seminar on Domestic Violence: Theory, Research and Social Policy:</b> 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. <i>Occasional.</i></p>
<p><b>SYP 3510</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Deviant Behavior:</b> 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. <i>Spring.</i></p>	<p><b>SYP 4304</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Social Movements and Revolutions:</b> PR: SYG 2000 or C.I. Comparative sociology of revolutions and the sociological research on social movements. <i>Occasional.</i></p>	<p><b>SYP 5615</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Culture:</b> PR: Graduate standing or C.I. Major theoretical approaches and empirical studies in the sociology of culture and analysis of cultural processes. <i>Occasional.</i></p>
<p><b>SYP 3511</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Murder:</b> 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. <i>Fall.</i></p>	<p><b>SYP 4323</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Social Systems and Diversity:</b> PR: SYG 2000, junior standing. The formation of social systems in response to social problems and the implementation of public policy. Emphasis on diverse perspectives and ethical positions and their effect on the form and effectiveness of social systems. <i>Occasional.</i></p>	<p><b>SYP 5738</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Seminar on the Welfare State &amp; Aging:</b> PR: Graduate status or senior standing or C.I. A sociological examination of old policies from a cross-cultural perspective. <i>Occasional.</i></p>
<p><b>SYP 3520</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Criminology:</b> PR: SYG 2000 or SYG 2010 or C.I. Chief causes of anti-social behavior and current methods of prevention and reform. Effects of heredity and environment, prevalence of delinquency and crime, penal institutions. <i>Fall, Spring.</i></p>	<p><b>SYP 4454</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of the Global System:</b> 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. <i>Occasional.</i></p>	<p><b>TAX 4001</b>      <b>BA-ACCT</b>      <b>3(3,0)</b>  <b>Taxation of Business Entities and Transactions:</b> PR: Junior standing plus completion of ACG 2021 and ACG 2071 with a grade of "C" or higher. Federal income tax laws affecting the taxation of business entities and transactions. <i>Fall, Spring.</i></p>
<p><b>SYP 3530</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Juvenile Delinquency:</b> Types of delinquency behavior found among juveniles; possible causes and ways society attempts to treat the various forms of delinquency. <i>Occasional.</i></p>	<p><b>SYP 4514</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Violence:</b> PR: SYG 2000 or SYG 2010 or C.I. Social roots, culture, circumstances, prevention, and control of violence. <i>Occasional.</i></p>	<p><b>TAX 5015</b>      <b>BA-ACCT</b>      <b>3(3,0)</b>  <b>Advanced Tax Topics:</b> PR: Accounting major or minor, TAX 4001 or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships. <i>Fall, Spring.</i></p>
<p><b>SYP 3540</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Law:</b> 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. <i>Occasional.</i></p>	<p><b>SYP 4521</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Criminal Victimization in Society:</b> 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. <i>Occasional.</i></p>	<p><b>THE 2000</b>      <b>CAH-THEA</b>      <b>3(3,0)</b>  <b>Theatre Survey:</b> Overview of the art and craft of the theatre. Restricted to non majors. <i>Fall, Spring.</i> M&amp;S fee: \$5.00</p>
<p><b>SYP 3551</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Alcoholism:</b> Introduction to the nature of alcoholism and review of its impact on society. <i>Occasional.</i></p>	<p><b>SYP 4536</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Gangs and Society:</b> 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. <i>Occasional.</i></p>	<p><b>THE 2000H</b>      <b>CAH-THEA</b>      <b>3(3,0)</b>  <b>Theatre Survey - Honors:</b> PR: Permission of Honors. Not restricted to theatre majors. Honors-level overview of the art and craft of the theatre. <i>Fall, Spring.</i></p>
<p><b>SYP 3562</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociological Perspectives on Domestic Violence:</b> PR: SYG 2000 or C.I. Sociological perspectives on all forms of domestic violence, including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention. <i>Occasional.</i></p>	<p><b>SYP 4550</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Drug Abuse:</b> Analysis of the socio-cultural elements of the drug culture. <i>Occasional.</i></p>	<p><b>THE 2020</b>      <b>CAH-THEA</b>      <b>3(3,0)</b>  <b>Survey of Theatre for Majors:</b> PR: Theatre major or departmental consent. Overview of the art and craft of theatre. <i>Fall.</i></p>
<p><b>SYP 3602</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Popular Music:</b> 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. <i>Occasional.</i></p>	<p><b>SYP 4730</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Aging:</b> PR: SYG 2000 or SYG 2010 or C.I. Sociological aspects of aging in America. <i>Fall, Spring.</i></p>	<p><b>THE 2050</b>      <b>CAH-THEA</b>      <b>3(3,0)</b>  <b>Theatre Studies in Creative Drama:</b> PR: Theatre major or department consent. Techniques and theories for facilitating creative drama with youth, as both an art form and teaching tool. <i>Occasional.</i></p>
<p><b>SYP 3630</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology of Popular Culture:</b> PR: Junior Standing or C.I. Examines the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age. <i>Occasional.</i></p>	<p><b>SYP 4734</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Minority Aging:</b> PR: SYG 2000 or SYD 3700 or SYP 4730 or C.I. A sociological examination of older populations within minorities: ethnic minorities, women, and gay men and lesbians. <i>Occasional.</i></p>	<p><b>THE 2090L</b>      <b>CAH-THEA</b>      <b>1(0,VAR)</b>  <b>Theatre Participation-Management I:</b> PR: Theatre major or departmental consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. <i>Fall, Spring.</i></p>
<p><b>SYP 3650</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociology and Sport:</b> PR: SYG 2000 or SYG 2010 or C.I. Utilization of sociological concepts and theories to investigate sport as a social institution. Includes subjects of racism, sexism, drug abuse, violence, and current issues of sport. <i>Occasional.</i></p>	<p><b>SYP 5005</b>      <b>COS-SOC</b>      <b>3(3,0)</b>  <b>Sociological Social Psychology:</b> 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. <i>Occasional.</i></p>	<p><b>THE 2304</b>      <b>CAH-THEA</b>      <b>3(3,0)</b>  <b>Script Analysis:</b> PR: Theatre major or minor. Exploration of dramatic form with focus on playscripts for productions. <i>Fall, Spring.</i></p>
		<p><b>THE 2925</b>      <b>CAH-THEA</b>      <b>0(0,0)</b>  <b>Theatre Participation:</b> PR: Theatre major or department consent. Participation in UCF Theatre productions. May be repeated. Graded S/U. <i>Fall, Spring.</i></p>

## UCF Courses and Descriptions

<p><b>THE 3082</b> CAH-THEA 3(3,0)  <b>Theatre Careers:</b> PR: B.A. Theatre major, Sophomore standing, C (2.0) or better required in THE 2020 or THE 2000. Techniques to secure employment in theatre and related fields. <i>Occasional.</i></p>	<p><b>THE 4244</b> CAH-THEA 3(3,0)  <b>Musical Theatre History I:</b> PR: B.F.A. Musical Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the 1950s. <i>Fall.</i></p>	<p><b>TPA 2071C</b> CAH-THEA 3(2,2)  <b>Theatre Rendering:</b> PR: BFA Design/Tech or Stage Management major, C (2.0) or better required in THE 2000 or THE 2020. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers. <i>Spring.</i></p>
<p><b>THE 3110</b> CAH-THEA 3(3,0)  <b>Theatre History I:</b> PR: (THE 2020 or THE 2000) and THE 2304 and Theatre major or departmental consent. Development of theatre arts from prehistory through the 17th century. <i>Occasional.</i></p>	<p><b>THE 4245</b> CAH-THEA 3(3,0)  <b>Musical Theatre History II:</b> PR: BFA Musical Theatre major, C (2.0) or better required in THE 4244. Origins and evolution of Musical Theatre from the 1950s through the present. <i>Spring.</i></p>	<p><b>TPA 2201</b> CAH-THEA 2(2,0)  <b>Technical Theatre Production:</b> PR: B.A. Theatre or B.F.A. Musical Theatre/Acting major, C (2.0) or better required in PR: or CR: THE 2020 or THE 2000, and PR: or CR: TPA 2201L. Development, theory and practice of all areas of technical theatre production. <i>Fall, Spring.</i></p>
<p><b>THE 3111</b> CAH-THEA 3(3,0)  <b>Theatre History II:</b> PR: THE 3110, THE 3305. Theatre major or departmental consent. Theatre arts from the seventeenth century to the present. <i>Occasional.</i></p>	<p><b>THE 5205</b> CAH-THEA 3(3,0)  <b>American Theatre:</b> PR: THE 5910, and MA or MFA Theatre Graduate. Examination of performance and historical perspectives of American drama. <i>Spring.</i></p>	<p><b>TPA 2210</b> CAH-THEA 3(3,0)  <b>Stagecraft I:</b> PR: BFA Design/Tech or Stage Man major, C (2.0) or better required in CR: TPA 2210L. Development, theory, and practice of technical theatre production. <i>Fall.</i></p>
<p><b>THE 3212</b> CAH-THEA 3(3,0)  <b>Global Theatre:</b> PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Theatrical arts and traditions of various countries with an emphasis on non-western cultures. <i>Occasional.</i></p>	<p><b>THE 5246C</b> CAH-THEA 3(3,2)  <b>Musical Theatre:</b> PR: graduate acting 1, graduate status, or C.I. Historical study of the origins and development of musical theatre up to and including the work of Andrew Lloyd Webber. <i>Spring.</i></p>	<p><b>TPA 2210L</b> CAH-THEA 1(0,6)  <b>Stagecraft I Lab:</b> CR: TPA 2210. Practical projects in scenic construction. <i>Occasional.</i></p>
<p><b>THE 3230</b> CAH-THEA 3(3,0)  <b>Commonality within Cultural Diversity Experienced through Theater:</b> PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups. <i>Occasional.</i></p>	<p><b>THE 5248</b> CAH-THEA 3(3,0)  <b>Musical Theatre in History:</b> PR: Admission to MFA Musical Theatre Program. A chronological study of musical theatre from early Viennese operetta to the musicals of the modern age. Course will emphasize the work of composers, librettists, and lyricists as well as representative master-works of a variety of genre. Emphasis will be placed upon historical trends and theatrical viability. <i>Fall.</i></p>	<p><b>TPA 2211</b> CAH-THEA 3(3,6)  <b>Stagecraft II:</b> PR: THE 2020 or THE 2000, TPA 2210, Restricted to B.F.A. Theatre majors. Continuation of TPA 2210. Production crew as required. <i>Spring.</i> M&amp;S fee: \$15.00</p>
<p><b>THE 3240</b> CAH-THEA 3(3,0)  <b>Musical Theatre Survey:</b> PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the present day. <i>Occasional.</i></p>	<p><b>THE 5307</b> CAH-THEA 3(3,0)  <b>Contemporary Theatre Practice:</b> PR: THE 3110, THE 3111, THE 3306, Restricted to Theatre majors or departmental consent. Contemporary trends in plays and theatre production in the late 20th century. <i>Spring.</i></p>	<p><b>TPA 2211L</b> CAH-THEA 1(0,6)  <b>Stagecraft II Lab:</b> CR: TPA 2211. Practical projects in scenic and property construction. <i>Occasional.</i></p>
<p><b>THE 3282</b> CAH-THEA 3(3,0)  <b>Period Props and Furniture:</b> PR: THE 2020 or THE 2000, and Theatre major or departmental consent. Viewing and discussion of major styles of architecture, ornament, fabric, and furniture that individualize the specific time and location from Egypt to Deco. <i>Occasional.</i></p>	<p><b>THE 5385</b> CAH-THEA 3(3,0)  <b>Dramatic Literature for Children:</b> PR: Admission to MFA graduate program or C.I. An in-depth study of the growth and development of dramatic literature for children. <i>Even Fall.</i></p>	<p><b>TPA 2220</b> CAH-THEA 3(2,2)  <b>Stage Lighting:</b> PR: THE 2020 or THE 2000 and BFA Design/Tech or Stage Management majors. Study of basic electricity, optics, lighting equipment and control, and stage lighting techniques and practices. Service on a lighting crew as required. Required of all technical theatre/design majors. <i>Fall.</i></p>
<p><b>THE 3305</b> CAH-THEA 3(3,0)  <b>Dramatic Literature I:</b> PR: (THE 2020 or THE 2000) and THE 2304 and Theatre major or departmental consent. Playscripts from Sophocles to Jonson. <i>Occasional.</i></p>	<p><b>THE 5910</b> CAH-THEA 3(3,0)  <b>Research Methods in Theatre:</b> PR: MFA and MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms. <i>Fall.</i></p>	<p><b>TPA 2248C</b> CAH-THEA 2(2,2)  <b>Makeup Techniques:</b> PR: Theatre B.F.A. major or departmental consent, C (2.0) or better required in THE 2020 or THE 2000. Theory and practice of stage makeup. <i>Fall, Spring.</i></p>
<p><b>THE 3306</b> CAH-THEA 3(3,0)  <b>Dramatic Literature II:</b> PR: THE 3305, THE 3110. Restricted to Theatre majors or departmental consent. Playscripts from Restoration to Mid-20th Century. <i>Occasional.</i></p>	<p><b>THE 5945L</b> CAH-THEA 1(0,20)  <b>Theater Practicum I:</b> PR: Graduate status or C.I. A laboratory course designed to develop students' practical working knowledge in Theater. <i>Occasional.</i></p>	<p><b>TPA 2290L</b> CAH-THEA 1(0,VAR)  <b>Theatre Participation-Production I:</b> PR: Grade of C (2.0) or better required in TPA 2201 and TPA 2201L; or TPA 2210 or departmental consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. <i>Fall, Spring.</i></p>
<p><b>THE 3311</b> CAH-THEA 3(3,0)  <b>Theatre History and Dramatic Literature I:</b> PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from the Greeks to the Renaissance. <i>Occasional.</i></p>	<p><b>THE 5946L</b> CAH-THEA 1(0,20)  <b>Theater Practicum II:</b> PR: Admission into the graduate program, Theater Practicum I. A laboratory course designed to develop students' practical working knowledge in theater. <i>Occasional.</i></p>	<p><b>TPA 2600</b> CAH-THEA 3(3,0)  <b>Stage Management Basics:</b> PR: C (2.0) in THE 2020 or THE 2000; and BFA Stage Management major. Functions and responsibilities of professional stage managers. <i>Occasional.</i></p>
<p><b>THE 3312</b> CAH-THEA 3(3,0)  <b>Theatre History and Dramatic Literature II:</b> PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from French neo-classicism to modern realism. <i>Occasional.</i></p>	<p><b>TPA 2000C</b> CAH-THEA 3(2,2)  <b>Theatre Design Basics:</b> PR: BFA Design/Tech or Stage Management major, C (2.0) or better required in THE 2020 or THE 2000. Basic design skills for scenic, lighting and costume designers using color, grayscales, textures and symmetry to create a strong stage presence. <i>Fall.</i></p>	<p><b>TPA 3040</b> CAH-THEA 3(2,2)  <b>Costume Design for Theatre I:</b> PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of costume design for the stage. <i>Fall.</i></p>
<p><b>THE 3313</b> CAH-THEA 3(3,0)  <b>Theatre History and Dramatic Literature III:</b> PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from modern realism to present. <i>Occasional.</i></p>	<p><b>TPA 2010</b> CAH-THEA 3(3,0)  <b>Scenography:</b> PR: THE 2020 or THE 2000, THE 2304, and Theatre major. Introduction to scenic, costume, lighting, and sound design for the theatre. <i>Spring.</i></p>	<p><b>TPA 3043C</b> CAH-THEA 3(3,1)  <b>Costume History I:</b> PR: Theatre major or departmental consent, C (2.0) or better required in PR: or CR: THE 3110. Costume fashion from ancient Egypt to the mid 17th century, including basic period silhouette, costume parts and accessories. <i>Fall.</i></p>
<p><b>THE 4093L</b> CAH-THEA 1(0,VAR)  <b>Theatre Participation-Management II:</b> PR: THE 2090L and Theatre major. Participation in UCF Theatre productions. May be repeated for credit 8 times. <i>Fall, Spring.</i></p>		<p><b>TPA 3044C</b> CAH-THEA 3(3,1)  <b>Costume History II:</b> PR: Restricted to Theatre majors or departmental consent, C (2.0) or better required in TPA 3043C. Costume Fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories. <i>Spring.</i></p>



## UCF Courses and Descriptions

<p><b>TPA 3060C</b> CAH-THEA 3(2,2)  <b>Scenic Design for Theatre I:</b> PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of scenic design for the stage. <i>Fall.</i></p>	<p><b>TPA 3401</b> CAH-THEA 3(3,0)  <b>Theatre Careers for Tech/Management:</b> PR: B.F.A. Theatre majors, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry. <i>Spring.</i></p>	<p><b>TPA 5081</b> CAH-THEA 3(3,0)  <b>Design Concepts for Youth Theatre:</b> PR: Admission to MFA graduate program or C.I. A study of design elements (lighting, costume, set) as they apply to youth theatre. <i>Odd Spring.</i></p>
<p><b>TPA 3061</b> CAH-THEA 3(2,2)  <b>Scene Design II:</b> PR: Restricted to B.F.A. technical Theatre/design majors or Departmental consent, C (2.0) or better required in TPA 3060C. Continuation of TPA 3060C. An intensive, practical scenic design course dealing, with various theatrical styles, genres, multiple and simultaneous settings. Includes script analysis and project design work with an emphasis on visualization of design concepts through models and scenic renderings. Required of all B.F.A. technical theatre/design majors. <i>Spring.</i></p>	<p><b>TPA 3601</b> CAH-THEA 3(3,0)  <b>Stage Management:</b> PR: Grade of C (2.0) or better required in TPA 2____ (Stage Management Basics). Responsibilities of the stage manager prior to, during, and after performance as related to Departmental productions as well as professional union requirements. <i>Fall.</i></p>	<p><b>TPA 5258C</b> CAH-THEA 3(2,2)  <b>AutoCad-2D for Theatre:</b> PR: Admission into the MFA Design Program. Two-Dimensional computer drafting and editing techniques applicable to theatre design. <i>Occasional.</i></p>
<p><b>TPA 3077</b> CAH-THEA 3(2,2)  <b>Scene Painting:</b> PR: Grade of C (2.0) or better required in TPA 2000C and TPA 2071C. Projects in scene painting techniques. <i>Fall.</i></p>	<p><b>TPA 4041C</b> CAH-THEA 3(2,2)  <b>Costume Design II:</b> PR: Grade of C (2.0) or better required in TPA 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theoretical play productions. <i>Spring.</i></p>	<p><b>TPA 5299C</b> CAH-THEA 3(2,2)  <b>AutoCad-3D for Theatre:</b> PR: Admission into the graduate program and TPA 5258C. Three-dimensional computer drafting and editing techniques applicable for theatre design. <i>Occasional.</i></p>
<p><b>TPA 3195</b> CAH-THEA 3(0,30)  <b>Theatre Studio/Tech/Design:</b> PR: Junior standing, Theatre major or C.I. Study, analysis and execution of technical/design aspects for playscripts produced on UCF mainstage. May be repeated for credit. <i>Occasional.</i></p>	<p><b>TPA 4224</b> CAH-THEA 3(3,0)  <b>Lighting Design II for Theatre:</b> PR: C (2.0) in TPA 3221. Project lighting design work with an emphasis on visualization of design concepts, professional graphics, and paperwork standards and practices. <i>Occasional.</i></p>	<p><b>TPA 5405</b> CAH-THEA 3(3,0)  <b>Theatre Management for Non-Majors:</b> PR: THE 2020 or THE 2000, graduate status, or C.I. Study of university, community and professional theatre management with special attention to the principles of management to include management skills/function and organizational systems/performance as they relate to theatre organizations/institutions. <i>Fall.</i></p>
<p><b>TPA 3197</b> CAH-THEA 3(0,30)  <b>Summer Theatre Studio/Tech/Design:</b> PR: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on the UCF mainstage. May be repeated for credit. <i>Occasional.</i></p>	<p><b>TPA 4264C</b> CAH-THEA 3(2,2)  <b>Sound Design II for Theatre:</b> PR: C (2.0) in TPA 3260. Project sound design work with an emphasis on design communication and professional standards and practices. <i>Occasional.</i></p>	<p><b>TPA 5885C</b> CAH-THEA 2(2,2)  <b>Puppetry:</b> PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance. <i>Odd Spring.</i></p>
<p><b>TPA 3221</b> CAH-THEA 3(2,2)  <b>Lighting Design for Theatre I:</b> PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of lighting design for the stage. <i>Spring.</i></p>	<p><b>TPA 4293L</b> CAH-THEA 1(0, VAR)  <b>Theatre Participation-Production III:</b> PR: Theatre major, C (2.0) or better required in TPA 2290L. Participation in UCF Theatre Productions. May be repeated for credit 8 times. <i>Fall, Spring.</i></p>	<p><b>TPA 5946C</b> CAH-THEA 1(0,20)  <b>Design Practicum I:</b> PR: Admission into the MFA Design Program. Practical Experience as a member of the production team as a prop master or assistant scenic, costume, lighting, or sound designer. <i>Occasional.</i></p>
<p><b>TPA 3230</b> CAH-THEA 3(2,2)  <b>Costume Construction:</b> PR: BFA Design/Tech or Stage Management major or Department Consent, C (2.0) or better required in TPA 2210 or TPA 2290L. Lecture/laboratory study of the basic techniques used in the drafting, cutting, fitting, and construction of stage costumes. Required of all technical theatre/design majors. <i>Spring.</i></p>	<p><b>TPA 4400</b> CAH-THEA 3(3,0)  <b>Theatre Management:</b> PR: Grade of C (2.0) or better required in 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. <i>Fall.</i></p>	<p><b>TPA 5949C</b> CAH-THEA 1(0,20)  <b>Design Practicum II:</b> PR: Admission into the graduate program and TPA 5946C or C.I. Advanced work in the practical application of Properties and/or Design for the Theatre. <i>Occasional.</i></p>
<p><b>TPA 3249</b> CAH-THEA 2(2,2)  <b>Advanced Makeup Techniques:</b> PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 2248C. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks. <i>Occasional.</i></p>	<p><b>TPA 4602</b> CAH-THEA 3(3,0)  <b>Advanced Stage Management:</b> PR: B.F.A. Stage Management major, C (2.0) or better required in TPA 3601. Skills necessary for stage managers in contemporary entertainment. <i>Fall.</i></p>	<p><b>TPP 2101</b> CAH-THEA 3(3,0)  <b>Fundamentals of Acting:</b> PR: B.A. Theatre Major, and C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness and the ability to execute basic stage tasks. <i>Fall, Spring.</i></p>
<p><b>TPA 3250</b> CAH-THEA 2(2,2)  <b>CADD for Theatre:</b> PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 2211. Fundamental computer aided drafting and design and its application for Theatre. <i>Fall.</i></p>	<p><b>TPA 4940</b> CAH-THEA 6(0,40)  <b>Technical Theatre/Design Internship:</b> 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. <i>Occasional.</i></p>	<p><b>TPP 2110C</b> CAH-THEA 3(2,2)  <b>Acting I - Introduction:</b> PR: B.F.A. Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness, and the ability to execute basic stage tasks. <i>Fall, Spring.</i></p>
<p><b>TPA 3251</b> CAH-THEA 2(2,2)  <b>Advanced CADD for Theatre:</b> PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 3250. Advanced computer aided drafting and design and its application for Theatre. <i>Spring.</i></p>	<p><b>TPA 5042C</b> CAH-THEA 3(3,0)  <b>Costume Design Studio:</b> PR: Admission into the graduate program, TPA 3043C, TPA 3044C, or C.I. Project oriented course in the advance study of Costume Design. <i>Occasional.</i></p>	<p><b>TPP 2170C</b> CAH-THEA 3(2,2)  <b>Acting II - Fundamentals:</b> PR: TPP 2110C, DAA 2200C, and THE 2304 and (THE 2020 or THE 2000) and (TPP 2710C or MUT 1004) and BFA Theatre Performance/Musical Theatre major. Fundamental techniques to acting, with emphasis on characterization and character development. <i>Fall, Spring.</i></p>
<p><b>TPA 3260</b> CAH-THEA 3(3,0)  <b>Sound Design For the Theatre:</b> PR: THE 2020 or THE 2000, TPA 2211. Restricted to Theatre majors or departmental consent. Exploration of the aesthetic and technological aspects of sound as they relate to the art and craft of theatre majors. <i>Spring.</i></p>	<p><b>TPA 5062C</b> CAH-THEA 3(2,2)  <b>Scene Design Studio:</b> PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre. <i>Spring.</i></p>	<p><b>TPP 2185</b> CAH-THEA 3(3,0)  <b>Acting for Non-majors:</b> 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. <i>Fall, Spring.</i></p>
		<p><b>TPP 2190</b> CAH-THEA 1(0,20)  <b>Theatre Production/Performance I:</b> PR: Not restricted to Theatre majors but requires departmental consent. Participation in UCF Theatre Productions. Required of all B.F.A. theatre performance majors. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>

## UCF Courses and Descriptions

<p>TPP 2260 CAH-FILM 3(3,0)  <b>Acting for Film:</b> PR: Film Majors. An introduction to acting for the camera. <i>Occasional.</i></p>	<p>TPP 3510C CAH-THEA 2(2,1)  <b>Movement for the Actor:</b> PR: DAA 2200C, DAA 2201C, TPP 2110C, TPP 2170C, BFA Performance Major. Active physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body. <i>Fall.</i></p>	<p>TPP 4244 CAH-THEA 3(3,0)  <b>The Art of Storytelling:</b> PR: Theatre major; C (2.0) in TPP 2101, and THE 2020. Application of storytelling as an art form. <i>Occasional.</i></p>
<p>TPP 2700C CAH-THEA 3(2,2)  <b>Stage Speech/Voice:</b> PR: BA Theatre major and C (2.0) in THE 2020. Practical stage voice as it applies to performance. Not allowed for BFA Theatre majors. <i>Occasional.</i></p>	<p>TPP 3512C CAH-THEA 2(2,1)  <b>Stage Combat:</b> PR: Grade of C (2.0) or better required in TPP 4531C. Stage combat with emphasis on hand-to-hand combat. <i>Spring.</i></p>	<p>TPP 4259 CAH-THEA 2(2,2)  <b>Musical Theatre Voice III:</b> PR: BFA Musical theatre major, and C (2.0) or better required in TPP 3258. Individualized instruction - diagnosis and remedy of unique vocal challenges - utilizing musical theatre repertoire. <i>Spring.</i></p>
<p>TPP 2710C CAH-THEA 2(2,1)  <b>Voice Production I:</b> PR: BFA acting major. Lessac, Skinner, phonetics, and the vocal apparatus. <i>Fall.</i></p>	<p>TPP 3513C CAH-THEA 2(2,1)  <b>Movement for the Actor II:</b> PR: C (2.0) in TPP 3510C. Reinforcement of techniques and practices found in Movement for the Actor I. <i>Occasional.</i></p>	<p>TPP 4265C CAH-THEA 3(3,2)  <b>Acting VI - Acting for TV/Film:</b> PR: B.F.A. Theatre Performance major or B.F.A. Musical Theatre major; and C (2.0) or better required in TPP 3252 or TPP 4142C. Application of previous acting training to the TV/Film medium. <i>Fall.</i></p>
<p>TPP 3103 CAH-THEA 3(3,0)  <b>Intermediate Acting:</b> PR: B.A. Theatre major and C (2.0) or better required in TPP 2101. Practice and execution of scene work, monologue work, and exercises. <i>Occasional.</i></p>	<p>TPP 3711C CAH-THEA 2(2,1)  <b>Voice Production II:</b> PR: Grade of C (2.0) or better required in TPP 2710C. Reinforcing the awareness introduced in Voice I, focusing on a physical approach to acting texts. <i>Spring.</i></p>	<p>TPP 4268 CAH-THEA 3(3,2)  <b>Acting VII Advanced Acting For TV/Film:</b> PR: Grade of C (2.0) or better required in TPP 4265C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project. <i>Spring.</i></p>
<p>TPP 3172C CAH-THEA 3(2,2)  <b>Acting III - Building the Character:</b> PR: Grade of C (2.0) or better required in TPP 2170C. Reinforcement of acting techniques begun in Acting II, with emphasis on characterization and character development. <i>Spring.</i></p>	<p>TPP 3712C CAH-THEA 2(2,1)  <b>Voice Production III:</b> PR: Grade of C (2.0) or better required in TPP 3711C. Continuation of Voice Production II; emphasis on study of Shakespeare and heightened language. <i>Fall.</i></p>	<p>TPP 4270C CAH-THEA 2(2,2)  <b>Musical Theatre Voice V:</b> PR: TPP 4923 and Theatre major or departmental consent. Advanced diagnosis and development of the singing voice and its application to musical theatre performance. <i>Spring.</i></p>
<p>TPP 3197 CAH-THEA 3(0,30)  <b>Summer Theatre/Performance:</b> PR: Open to non-Theatre majors with departmental consent. Production assignments and responsibilities during the rehearsals/performance of play scripts produced on the UCF mainstage. May be repeated for credit. <i>Occasional.</i></p>	<p>TPP 3730C CAH-THEA 2(2,1)  <b>Voice Production IV:</b> PR: Grade of C (2.0) or better required in TPP 3712C. Analysis of dialects and regionalisms, reinforcing the study of phonetics, placement, and vocal apparatus. <i>Fall.</i></p>	<p>TPP 4271C CAH-THEA 2(2,2)  <b>Musical Theatre Voice VI:</b> PR: TPP 4270C and Theatre major or departmental consent. Continuation of advanced diagnosis and development of the singing voice and its application to music theatre performance. <i>Fall.</i></p>
<p>TPP 3223 CAH-THEA 3(3,0)  <b>Theatre Careers for Performance:</b> 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. <i>Spring.</i></p>	<p>TPP 3952 CAH-THEA 3(0,30)  <b>Studio Performance:</b> PR: Junior standing or C.I. Not restricted to Theatre majors but requires department consent. Studio performance provides the specific application of the theatre artist's training to full scale theatre productions. May be repeated for credit. <i>Occasional.</i></p>	<p>TPP 4311 CAH-THEA 3(2,2)  <b>Advanced Directing for Theatre:</b> PR: 'A' grade in TPP 3310C. Practical experience directing class scenes and projects. <i>Spring.</i></p>
<p>TPP 3250 CAH-THEA 3(3,0)  <b>Musical Theatre Acting/Performance I:</b> PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 2110C. Practical acting techniques with solo musical theatre repertoire. <i>Fall.</i></p>	<p>TPP 4140C CAH-THEA 3(2,2)  <b>Acting IV - Creating the Role:</b> PR: Grade of C (2.0) or better required in TPP 3712C. Continued exploration and application of acting technique through scene study. <i>Fall.</i></p>	<p>TPP 4531C CAH-THEA 2(2,1)  <b>Period Movement:</b> PR: Grade of C (2.0) or better required in TPP 3172C. Continuation of Movement/Dance work. Emphasis given to period styles. <i>Fall.</i></p>
<p>TPP 3252 CAH-THEA 3(3,0)  <b>Musical Theatre Acting Performance II:</b> PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3250. Practical acting technique as it applies to musical theatre scene study. <i>Spring.</i></p>	<p>TPP 4142C CAH-THEA 3(2,2)  <b>Acting V - Verse:</b> PR: Grade of C (2.0) or better required in TPP 4140C. Verse drama with particular emphasis placed on scansion and verse in the plays of William Shakespeare. <i>Spring.</i></p>	<p>TPP 4923 CAH-THEA 2(2,2)  <b>Musical Theatre Voice IV:</b> PR: BFA Musical Theatre major and C (2.0) or better required in TPP 4259. Individualized instruction. Patter song, in-context and out-of-context presentation, stylization utilizing musical theatre repertoire. <i>Fall.</i></p>
<p>TPP 3257 CAH-THEA 2(2,2)  <b>Musical Theatre Voice I:</b> PR: B.F.A. Musical Theatre major, and C (2.0) or better required in THE 2000 or THE 2020. Craft of singing including anatomy, physiology, and diction utilizing musical theatre repertoire. <i>Spring.</i></p>	<p>TPP 4143C CAH-THEA 3(2,2)  <b>Acting Styles:</b> PR: Grade of C (2.0) or better required in TPP 3103 and TPP 4140C. An advanced and comprehensive view of acting styles. <i>Occasional.</i></p>	<p>TPP 4940L CAH-THEA 6(0, VAR)  <b>Theatre Internship:</b> PR: Restricted to B.F.A. Theatre majors, and Junior Standing and subject to Departmental approval. Off-campus internship programs in professional theatre. Required of all B.F.A. theatre majors. <i>Fall, Spring.</i></p>
<p>TPP 3258 CAH-THEA 2(2,2)  <b>Musical Theatre Voice II:</b> PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3257. Artistry of singing including function of music and lyrics, and problems in song interpretation utilizing musical theatre repertoire. <i>Fall.</i></p>	<p>TPP 4193 CAH-THEA 1(0,20)  <b>Theatre Production/Performance IV:</b> PR: Not restricted to Theatre majors but requires Departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. theatre performance majors. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p>TPP 5125C CAH-THEA 2(2,2)  <b>Improvisation Studio:</b> PR: Acting for Youth Theatre. A study of spontaneous dramatic play and theatre exercises designed to develop self-discipline, creative freedom and resources for the stage and classroom. <i>Odd Fall.</i></p>
<p>TPP 3310C CAH-THEA 3(2,2)  <b>Directing for Theatre I:</b> PR: Theatre majors, Junior Standing, and C (2.0) or better required in THE 3312. Principles and techniques of play direction to include script selection, directorial analysis, casting, composition/picturization, blocking, tempo, and rehearsal planning. <i>Fall, Spring.</i></p>	<p>TPP 4221 CAH-THEA 3(3,0)  <b>Auditioning:</b> PR: Junior Standing, and C (2.0) or better required in TPP 3103 and TPP 4140C. Selecting monologues, auditioning techniques and cold readings. <i>Occasional.</i></p>	<p>TPP 5156C CAH-THEA 3(2,2)  <b>Acting Studio I:</b> 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. <i>Fall.</i></p>
	<p>TPP 4243C CAH-THEA 2(2,2)  <b>Circus Arts:</b> PR: Theatre major; C (2.0) in TPP 2101, and THE 2020. Circus history and introduction to a wide range of circus skills. <i>Occasional.</i></p>	<p>TPP 5157C CAH-THEA 3(2,2)  <b>Acting Studio II:</b> PR: TPP 5156C 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/Chekhov/Shaw. <i>Spring.</i></p>

## UCF Courses and Descriptions

<p>TPP 5273 CAH-THEA 3(3,0)  <b>Musical Theatre Acting I:</b> 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. <i>Occasional.</i></p>	<p>TSL 4141 CAH-LANG 3(3,0)  <b>Issues in Second Language Acquisition:</b> PR: TSL 4080. English phonology, morphology, syntax, and semantics, for future teachers. <i>Fall, Spring.</i></p>	<p>TTE 5805 ECS-CEE 3(3,0)  <b>Geometric Design of Transportation Systems:</b> PR: TTE 4004. Study of geometric and construction design elements in the engineering of transportation systems. <i>Occasional.</i></p>
<p>TPP 5289C CAH-THEA 2(2,2)  <b>Acting for Young Audiences:</b> PR: Admission to MFA graduate program or C.I. A guided investigation of the principles and techniques of acting for young audiences. <i>Even Fall.</i></p>	<p>TSL 5143 CAH-LANG 3(3,0)  <b>ESOL Strategies:</b> 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. <i>Occasional.</i></p>	<p>TTE 5835 ECS-CEE 3(3,0)  <b>Pavement Design:</b> PR: CEG 4101C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy. <i>Occasional.</i></p>
<p>TPP 5386 CAH-THEA 3(3,0)  <b>Directing for Young Audiences:</b> PR: THE 5910 and Dramatic Literature for Children. Study of the principles, procedures, and practices of stage direction as it applies to theatre for young audiences. <i>Odd Spring.</i></p>	<p>TSL 5245 CAH-LANG 3(3,0)  <b>Computers and Technology for ESOL:</b> 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. <i>Occasional.</i></p>	<p>VIC 3001 COS-R/TV 3(3,0)  <b>Visual Communication:</b> A study of the visual system of man and the influences of the visual media on modern society. <i>Occasional.</i></p>
<p>TPP 5515 CAH-THEA 2(2,0)  <b>Movement Studio I:</b> 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. <i>Fall.</i></p>	<p>TSL 5345 ED-TLP 3(3,0)  <b>Methods of ESOL Teaching:</b> This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL. <i>Fall, Spring.</i></p>	<p>WOH 2012 CAH-HIST 3(3,0)  <b>World Civilization I:</b> 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. <i>Fall, Spring.</i></p>
<p>TPP 5516C CAH-THEA 2(2,1)  <b>Movement Studio II:</b> PR: TPP 5515 or C.I. Principles and methods of movement for the stage focusing on gaining specific knowledge and skills in period styles of movement and basic unarmed combat. <i>Spring.</i></p>	<p>TSL 5373 ED-TLP 3(3,0)  <b>Teaching Language Minority Students in K-12 Classrooms:</b> PR: Admission to College of Education Master of Arts Program or C.I. Teaching K-12 limited English proficient (LEP) students. Florida standards regarding cross-cultural communication, ESOL curriculum, and materials, ESOL methodology, testing and evaluation of ESOL students, applied linguistics. <i>Fall, Spring.</i></p>	<p>WOH 2012H CAH-HIST 3(3,0)  <b>World Civilization I - Honors:</b> PR: Permission of Honors. The rise and decline of world civilizations from antiquity to the great civilizations of medieval times. Honors content. <i>Occasional.</i></p>
<p>TPP 5544C CAH-THEA 2(2,4)  <b>Musical Theatre Dance I:</b> PR: MFA Musical Theatre Majors. Advanced dance study with particular emphasis on the development of principles of alignment, coordination, isolation, and sequencing. <i>Fall.</i></p>	<p>TSL 5376 CAH-LANG 3(3,0)  <b>Reading and writing in a second language:</b> PR: Graduate standing or C.I. Theoretical and pedagogical approaches to ESOL reading and writing. <i>Occasional.</i></p>	<p>WOH 2022 CAH-HIST 3(3,0)  <b>World Civilization II:</b> Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization. <i>Fall, Spring.</i></p>
<p>TPP 5555C CAH-THEA 2(2,4)  <b>Musical Theatre Dance II:</b> PR: TPP 5554C. Advanced dance study with particular emphasis on the development and expression of characterization in dance. <i>Spring.</i></p>	<p>TSL 5525 ED-TLP 3(3,0)  <b>ESOL Cultural Diversity:</b> This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs. <i>Occasional.</i></p>	<p>WOH 2022H CAH-HIST 3(3,0)  <b>World Civilization II - Honors:</b> 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. <i>Occasional.</i></p>
<p>TPP 5715C CAH-THEA 2(2,1)  <b>Stage Voice I:</b> PR: Admission to MFA performance program. An introduction/review class examining the fundamentals of speaking on stage: the correct production of sound, breathing, relaxation of physical tension, and articulation. <i>Fall.</i></p>	<p>TSL 5940 CAH-LANG 3(3,0)  <b>Issues in TEFL:</b> 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. <i>Spring.</i></p>	<p>WST 3015 CAH-ENG 3(3,0)  <b>Introduction to Women's Studies:</b> 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. <i>Fall, Spring.</i></p>
<p>TPP 5716C CAH-THEA 2(2,1)  <b>Stage Voice II:</b> 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. <i>Spring.</i></p>	<p>TTE 4004 ECS-CEE 4(4,0)  <b>Transportation Engineering:</b> 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. <i>Fall, Spring.</i></p>	<p>WST 3460 CAH-WOM 3(3,0)  <b>Womanist Studies:</b> PR: ENC 1102 or C.I. Interdisciplinary study of issues, perspectives, and scholarship by and about women of color. <i>Occasional.</i></p>
<p>TPP 5754 CAH-THEA 2(2,0)  <b>Musical Theatre Voice I:</b> 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. <i>Fall.</i></p>	<p>TTE 4601C ECS-CEE 3(2,2)  <b>Urban Systems Design:</b> PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies. <i>Spring.</i> M&amp;S fee: \$15.00</p>	<p>WST 3460H CAH-WOM 3(3,0)  <b>Honors Womanist Studies:</b> PR: ENC 1102 and consent of Honors. Disciplines producing scholarship promoting a feminist of color perspective. With Honors content. <i>Occasional.</i></p>
<p>TPP 5935C CAH-THEA 2(2,2)  <b>Contemporary Practices in Youth Theatre:</b> PR: Admission to MFA graduate program or C.I. Investigation of a particular subject in youth theatre. May be repeated for credit 4 times. <i>Odd Spring.</i></p>	<p>TTE 5204 ECS-CEE 3(3,0)  <b>Traffic Engineering:</b> PR: TTE 4004. Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings. <i>Occasional.</i></p>	<p>WST 3500 CAH-WOM 3(3,0)  <b>Gender Issues and Community Activism:</b> 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. <i>Occasional.</i></p>
<p>TSL 4080 ED-TLP 3(3,0)  <b>Theory and Practice of Teaching ESOL Students in Schools:</b> 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. <i>Fall, Spring.</i></p>	<p>TTE 5700 ECS-CEE 3(3,0)  <b>Railroad Engineering:</b> PR: TTE 4004 and C.I. The major technical factors in location, construction, maintenance, and operation of railroad transportation systems. <i>Occasional.</i></p>	<p>WST 3561 CAH-WOM 3(3,0)  <b>Third Wave Feminisms:</b> PR: WST 3015. Third wave feminist theories and practices with an activist focus. <i>Even Spring.</i></p>
		<p>WST 4002 CAH-WOM 1(1,0)  <b>Researching Women and Gender:</b> 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. <i>Occasional.</i></p>

## UCF Courses and Descriptions

<p><b>WST 5347</b> CAH-WOM 3(3,0)  <b>Research Seminar in Gender Studies:</b> 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. <i>Occasional.</i></p>	<p><b>ZOO 4205C</b> COS-BIOL 4(3,3)  <b>Biology and Ecology of Metazoan Invertebrates:</b> PR: BSC 2010C, BSC 2011C, PCB 3044 or C.I. Anatomy, ecology, taxonomy, behavior, evolution, and parasitological relations of the radiates, bilateria, acoelous, pseudocoelous, schizocoelous, and enterocoelous invertebrates. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>ZOO 5475C</b> COS-BIOL 4(2,6)  <b>Ornithology:</b> 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. <i>Occasional.</i> M&amp;S fee: \$15.00</p>
<p><b>WST 5601</b> CAH-WOM 3(3,0)  <b>Theories in Gender Studies:</b> 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. <i>Even Fall.</i></p>	<p><b>ZOO 4310C</b> COS-BIOL 4(2,6)  <b>Vertebrate Evolution &amp; Ecology:</b> PR: BSC 2010C, BSC 2011C, PCB 3044, PCB 3063 or C.I. Vertebrate evolution and ecology, based on the paleontological and ecological literature. The laboratory places heavy emphasis on classification/identification and field work. <i>Occasional.</i> M&amp;S fee: \$45.00</p>	<p><b>ZOO 5486C</b> COS-BIOL 4(2,6)  <b>Mammalogy:</b> 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. <i>Occasional.</i> M&amp;S fee: \$15.00</p>
<p><b>ZOO 3701C</b> BCBS-M&amp;M 3(1,4)  <b>Human Gross Anatomy &amp; Dissection Techniques:</b> PR: ZOO 3733C. Dissection techniques of the human body to teach students the skills required for the preparation of three dimensional materials(specimens). The primary student population should be junior/senior pre health professional applicants preparing for the basic medical sciences of professional schools. <i>Spring.</i></p>	<p><b>ZOO 4513</b> COS-BIOL 3(3,0)  <b>Animal Behavior:</b> PR: PCB 3044. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations. <i>Odd Fall.</i></p>	<p><b>ZOO 5517</b> COS-BIOL 1(1,0)  <b>Methods for Studying Animal Behavior in Zoo Setting:</b> PR: an animal behavior course, graduate status or senior standing, or C.I. Research techniques used to study animals in captivity. <i>Occasional.</i></p>
<p><b>ZOO 3713C</b> COS-BIOL 5(3,6)  <b>Comparative Vertebrate Anatomy:</b> PR: BSC 2010C and BSC 2011C, or C.I. The vertebrate animals, relationships of organs and systems, and their phylogenetic significance. <i>Fall.</i> M&amp;S fee: \$35.00</p>	<p><b>ZOO 4603C</b> COS-BIOL 5(3,4)  <b>Embryology/Development:</b> PR: PCB 3063 and PCB 3023 or PCB 3522 or C.I. Concepts of developmental processes. Emphasis on mechanisms underlying vertebrate development. <i>Spring.</i> M&amp;S fee: \$25.00</p>	<p><b>ZOO 5520</b> COS-BIOL 3(3,0)  <b>Behavioral Ecology:</b> 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. <i>Occasional.</i></p>
<p><b>ZOO 3733C</b> BCBS-M&amp;M 4(3,3)  <b>Human Anatomy:</b> PR: BSC 2010C or equivalent. Structure of the human body. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>ZOO 4704C</b> BCBS-M&amp;M 4(3,1)  <b>Clinical Neuroanatomy and Neuroscience:</b> PR: ZOO 3733C with a B (3.0) or better. Basic and applied neurosciences with attention to normal function and pathologic states of the nervous system relevant to practice of general medicine and/or neuroscience. <i>Fall.</i></p>	<p><b>ZOO 5745C</b> BCBS-M&amp;M 4(3,3)  <b>Essentials of Neuroanatomy:</b> 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. <i>Occasional.</i> M&amp;S fee: \$15.00</p>
<p><b>ZOO 3733H</b> BCBS-M&amp;M 4(3,3)  <b>Honors Human Anatomy:</b> PR: BSC 2010C or equivalent and Consent of Honors. Basic and functional anatomy in clinically oriented way to study systems within the human body. The lab component of this honors course provides enrichment and an opportunity to view cadaver specimens. With Honors Content. <i>Spring.</i></p>	<p><b>ZOO 4753C</b> BCBS-M&amp;M 4(3,3)  <b>Vertebrate Histology:</b> 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. <i>Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>ZOO 5815</b> COS-BIOL 4(4,0)  <b>Zoogeography:</b> 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. <i>Occasional.</i> M&amp;S fee: \$15.00</p>
<p><b>ZOO 3736C</b> BCBS-M&amp;M 4(3,2)  <b>Exercise Physiology Anatomy:</b> PR: BSC 2010C, Cl. Gross anatomy for exercise physiology majors. <i>Fall, Spring.</i> M&amp;S fee: \$15.00</p>	<p><b>ZOO 5456C</b> COS-BIOL 4(2,6)  <b>Ichthyology:</b> 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. <i>Occasional.</i> M&amp;S fee: \$25.00</p>	<p><b>ZOO 5881C</b> COS-BIOL 4(3,4)  <b>Fisheries Management:</b> 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. <i>Occasional.</i> M&amp;S fee: \$20.00</p>
<p><b>ZOO 3744</b> BCBS-M&amp;M 3(3,0)  <b>Neurobiology:</b> PR: BSC 2010C. Biological principles governing the physiology of the nervous system including electrical properties, chemical signaling, cellular composition, development, injury and regeneration. <i>Fall, Spring.</i></p>	<p><b>ZOO 5463C</b> COS-BIOL 4(2,6)  <b>Herpetology:</b> 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. <i>Occasional.</i> M&amp;S fee: \$15.00</p>	<p><b>ZOO 5891</b> COS-BIOL 1(1,0)  <b>Applied Conservation Biology:</b> PR: Graduate status or senior standing or C.I. Examination of issues surrounding care, maintenance and tracking animals in small populations. <i>Occasional.</i></p>
		<p><b>ZOO 5893L</b> COS-BIOL 1(0,3)  <b>Reproductive Management in Zoological Environments:</b> PR: PCB 4732, graduate status or senior standing, or C.I. Laboratory techniques used to improve reproductive success of animals in a zoological environment. <i>Occasional.</i></p>

# FACULTY

The date indicates the first year of employment at the University of Central Florida.

**ABBAS, HADI**, Instructor of Art (1995), B.F.A., M.F.A. (Wichita State University)

**ABDEL-ATY, MOHAMED**, Associate Professor of Engineering

(1995), B.S.C.E., M.S.C.E., Ph.D. (University of California at Davis)

**ABEL, EILEEN M.**, Associate Professor of Social Work

(1978), A.B., M.S.W., Ph.D., (Case Western Reserve University)

**ABRAHAM, CHARLIE**, Associate Professor of Art

(1996), B.F.A., M.F.A. (University of Mississippi)

**ACIERNO, LOUIS J.**, Professor of Health Sciences (Cardiopulmonary Science)

(1979), B.S., M.D. (Georgetown University)

**ACKLEY, TIMOTHY**, Visiting Assistant Professor of Education

(2002), B.G.S., M.A.T., Ph.D. (University of Florida)

**ADAMS, CAROLE**, Associate Professor of History

(1993), B.A., M.A., Ph.D. (Harvard University)

**ADAMS, KENNETH**, Associate Professor of Public Affairs

(2003), Ph.D. (State University of New York at Albany)

**AHMAD, IBRAHIM A.**, Professor of Statistics

(1999), B.S., M.S., Ph.D. (Florida State University)

**AJAYI, RICHARD A.**, Associate Professor of Finance

(1996), B.Sc., M.B.A., Ph.D. (Temple University)

**AL-DEEK, HAITHAM**, Professor of Engineering

(1992), B.C.E., M.S., Ph.D. (University of California at Berkeley), P.E. (Florida)

**ALBERS, JUNIE**, Instructor of Education

(2001), B.A., M.A. (University of Central Florida)

**ALDERMAN, BARBARA**, Instructor University Librarian

(2002), B.A., M.S. (Florida State University)

**ALLEN, FRANK R.**, Associate Director for Administrative Services

(1998), B.A., B.S., M.B.A., M.L.S. (University of Tennessee)

**ALLEN, JEFFERY W.**, Associate Professor of Marketing

(1990), B.S., M.B.A., D.B.A. (University of Kentucky)

**ALLEN, KAY WILLIAMSON**, Associate Professor of Education

(1990), B.S., M.Ed., Ph.D. (University of South Carolina)

**ALLGOOD, JANE**, Assistant Professor of Social Work

(2002), BA, MSW, Ph.D. (Florida State University)

**ALMEIDA, JOHN A.**, Associate Professor of Music

(1997), B.M., M.A. (Appalachian State University)

**ALRUTZ, MEGAN**, Assistant Professor of Theatre

(2004), B.F.A., Ph.D. (Arizona State University)

**ALVAREZ, RODNEY**, Assistant Professor of History

(2000), B.A., M.A., Ph.D. (University of California, Los Angeles)

**AMBROSE, MAUREEN L.**, Professor of Management

(1999), B.A., A.M., Ph.D. (University of Illinois at Urbana-Champaign)

**AN, LINAN**, Assistant Professor of Engineering

(2001), Ph.D. (Lehigh University)

**ANDREWS, LARRY C.**, Professor of Mathematics and Electrical and Computer Engineering

(1973), B.S., M.S., Ph.D. (Michigan State University)

**ANDREWS, SABRINA**, Director and University Data Administrator, Institutional Research

(1995), B.S., M.S. (Florida State University)

**ANGELOPOULOS, THEODORE**, Associate Professor of Education

(1998), B.S., M.S., Ph.D. (University of Pittsburgh)

**ANGLEY, PATRICIA**, Instructor of English

(1998), B.A., M.A., Ph.D. (University of Hawaii)

**ANTHONY, JOBY M.**, Associate Professor of Mathematics

(1970), B.S., M.A.M., Ph.D. (North Carolina State University)

**ANTON, WILMA**, Assistant Professor of Economics

(2001), B.S., M.S., ABD (University of Illinois)

**APPLEGATE, BRANDON**, Associate Professor of Criminal Justice

(1996), Ph.D. (University of Cincinnati)

**APPLEN, J.D.**, Associate Professor of English

(1997), B.S., M.F.A., Ph.D. (University of Arizona)

**ARK, PAMELA**, Assistant Professor

(2004), RN, PhD (University of Tennessee - Memphis)

**ARMACOST, ROBERT L.**, Director, University Analysis and Planning Support, and Associate Professor of Engineering

(1991), B.S., M.S.O.R., D.Sc. (George Washington University)

**ARMSTRONG, JOHN H.**, Associate Professor of Education

(1970), B.S., M.S., Ed.D. (Oklahoma State University)

**ARMSTRONG, LEE H.**, Professor of Mathematics

(1968), B.A., M.S., Ph.D. (Florida State University)

**ARNAUD, ANKE**, Instructor of

Management

(1995), B.A., M.B.A. (University of Central Florida)

**ASHLEY, ROBERT A.**, Assistant Professor of Hospitality Management

(1984), B.S., M.S. (Florida International University, C.E.C., C.C.E.)

**ATKINSON, STANLEY M.**, Associate Professor of Finance

(1981), B.B.A. M.B.A., D.B.A. (Mississippi State University)

**BAGLEY, GEORGE M.**, Associate Director and Associate Professor of Communication

(1994), B.A., M.A. (University of Utah)

**BAILEY, CHARLES D.**, Professor of Accounting

(1991), B.B.A., M.B.A., M.P.A., Ph.D. (Georgia State University)

**BAILEY, LYNNE**, Visiting Instructor of Education

(2001), B.S., M.S.Ed., Ed.D. (University of Central Florida)

**BAKER, BARRY B.**, Director, University Libraries

(1997), B.A., M.L.S. (Louisiana State University)

**BAKER, JOSIAH R.**, Instructor of Economics

(2001), B.A., M.A., M.A.A.E. (University of Central Florida)

**BALADO, CARL**, Associate Professor of Education

(1987), B.A., M.S., M.Ed., Ed.D. (Florida Atlantic University)

**BALLANTYNE, JOHN**, Associate Professor of Chemistry/ Forensic Science

(1998), B.S., M.S., Ph.D. (State University of New York at Stony Brook)

**BALTUNIS, CATHERINE**, Visiting Instructor of Communication

(2003), B.A., M.A. (University of Central Florida)

**BANDY, DALTON D.**, Chairholder, C.G. Avery Professorship, and Professor of Accounting

(1985), B.S., M.B.A., Ph.D. (University of Texas at Austin)

**BARAJAS, HECTOR SSG**, Administration Sergeant

A.S. (Cameron University)

**BARBERET, JOHN**, Assistant Professor of Modern Languages and Literatures

(2000), B.A., Ph.D. (University of Michigan)

**BARFIELD II, RUFUS**, Associate Professor of Communication

(1998), B.A., M.A., Ph.D. (Howard University)

**BARNES, BETH**, Vice President and Chief of Staff, Office of the President, and Associate Professor of English

(1968), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)

**BARRINGER, BRUCE**, Associate Professor of Management

(1995), B.S., M.B.A., Ph.D. (University of Missouri-Columbia)

**BARSCH, KARL-HEINRICH**, Associate Professor of Modern Languages and

Literatures

(1977), B.A., M.A., Ph.D. (University of Colorado)

**BARTKEVICIUS, JOCELYN**, Associate Professor of English

(1994), B.A., M.A., M.F.A., Ph.D. (University of Iowa)

**BASCO, BUENAVENTURA B.**, Assistant University Librarian

(1998), B.S.I.E., M.B.A., M.A.L.I.S. (University of South Florida)

**BASSIOUNI, MOSTAFA**, Professor of Computer Science

(1981), B.S., M.S., Ph.D. (Pennsylvania State University)

**BAST, CAROL M.**, Associate Professor of Legal Studies

(1992), B.A., M.A., J.D. (New York Law School)

**BATARSEH, ISSA E.**, Professor of Engineering

(1991), B.S., M.S., Ph.D. (University of Illinois at Chicago), P.E. (Florida)

**BAUER, CHRISTIAN S., JR**, Program Director and Professor of Engineering

(1970), B.S.I.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)

**BAUMBACH, DONNA J.**, Professor of Education

(1978), B.S., M.S., Ed.D. (Indiana University)

**BAYER, CYNTHIA A.**, Research Assistant, Professor

(1996), B.S., Ph.D. (Syracuse University)

**BECKER, DEBRA**, Visiting Assistant Professor of Education

(2001), B.A., M.S.Ed., Ed.D. (University of Central Florida)

**BECKER, KYLE**, Visiting Assistant Professor of Theatre

(2004), B.F.A., M.F.A. (University of California)

**BECKER, LYNN**, Instructor of Management

(1996), B.S., M.B.A. (University of Central Florida)

**BEILE, PENNY M.**, Head Curriculum Materials Center and Assistant University Librarian

(1998), B.A., M.Ed., M.S.L.S. (University of Kentucky)

**BEILER, ROSALIND J.**, Associate Professor of History and Graduate Program Coordinator

(1994), B.A., Ph.D. (University of Pennsylvania)

**BELFIELD, KEVIN D.**, Associate Professor of Chemistry

(1998), B.S., Ph.D. (Syracuse University)

**BELL, JOHN**, Associate Professor of Theatre and Coordinator of Music Theatre

(2001), B.M., M.F.A. (San Diego State University)

**BELL, KATHLEEN**, Associate Professor of English

(1991), B.S., M.Ed., Ph.D. (Arizona State)

**BENCIE, JENNIFER**, Instructor of Health Services Administration

# UCF Faculty and Staff

- (2001), M.D., M.S.A. (Central Michigan University)
- BENSON, CYNTHIA**, Instructor of Political Science  
(1985), B.A., M.A. (Ohio University)
- BERMAN, STEVEN L.**, Assistant Professor of Psychology  
(2001), M.S., M.A., Ph.D. (Florida International University)
- BERRIOS, JOSEPH**, Assistant Professor of Engineering  
(2003), B.S., M.S., Ph.D. (University of Florida)
- BERTETTA, GERALD S.**, Instructor of Physical Therapy  
(1996), B.A., M.S. (San Francisco State University)
- BETZ, MICHELLE**, Lecturer of Communication  
(1999), B.A. (Carleton University)
- BHATTACHARYA, ANIKET**, Assistant Professor of Physics  
(2000), Ph.D. (University of Maryland)
- BIGGERSTAFF, JOHN P.**, Visiting Instructor of Molecular Biology and Microbiology  
(2000), B.S., M.S., Ph.D. (Brunel University)
- BIRAIMAH, KAREN L.**, Chair and Professor of Education  
(1985), B.A., M.A., M.S.Ed., Ph.D. (State University of New York at Buffalo)
- BISHOP, PATRICIA J.**, Director of Graduate Studies and Professor of Engineering  
(1978), B.S.E., M.S.M.E., Ph.D. (Purdue University), P.E. (Florida)
- BLACKWELL, CHRISTOPHER**, Visiting Instructor  
(2004), RN, MSN (University of Central Florida)
- BLADES, RANDAL**, Assistant in Theatre  
(2000), M.F.A. (Pennsylvania State University)
- BLAIR, TIMOTHY R.**, Professor of Education  
(1991), B.S., M.S., Ph.D. (University of Illinois)
- BLANES, MARIA**, Assistant Professor of Education  
(1997), B.A., M.S.Ed., Ph.D.
- BLANEY, KATHY**, Instructor of Medical Lab Science  
(1991), M.S. (University of Central Florida)
- BLEDSON, CAROL**, Coordinator and Instructor of Communication  
(1970), B.A., M.A. (University of Oklahoma)
- BLOCK, DAVID L.**, Director, Florida Solar Energy Center and Professor of Engineering  
(1968), B.S., M.S., Ph.D. (Virginia Polytechnic Institute), P.E. (Florida)
- BLOCK, LINDA J.**, Instructor of Finance  
(2002), B.S.B.A., MBA, Ph.D. (Purdue University)
- BLUE, CARROLL**, Professor of Film  
(1980), B.A., M.F.A. (University of California, Los Angeles)
- BLUM, RICHARD A.**, Professor of Film  
(1993), B.A., M.S., Ph.D. (University of Southern California)
- BOBEK, DONNA D.**, Assistant Professor of Accounting  
(1997), B.B.A., Ph.D. (University of Florida)
- BOGUMIL, WALTER A., JR.**, Associate Professor of Management  
(1972), B.S., M.B.A., Ph.D. (University of Georgia)
- BOHM, ROBERT M.**, Professor of Criminal Justice  
(1995), A.B., M.A., Ph.D. (Florida State University)
- BOLEMON, JAY S.**, Associate Professor of Physics  
(1968), B.S., Ph.D. (University of South Carolina)
- BOLONI, LANDISLAU**, Assistant Professor of Engineering  
(2002), B.S., M.S., PhD (Purdue University)
- BOOTE, DAVID N.**, Assistant Professor of Education  
(2000), B.Ed., B.I.S., M.A. Ph.D. (Simon Fraser University, British Columbia, Canada)
- BORDE, STEPHEN F.**, Associate Professor of Finance  
(1994), B.P.S., M.B.A., Ph.D. (Florida Atlantic University)
- BOREMAN, GLENN D.**, Professor of Engineering  
(1984), B.S., M.S., Ph.D. (University of Arizona), P.E. (Florida)
- BORJESSON, WIVECA I.**, Visiting Instructor in Psychology  
(2003), B.A., M.S., Ph.D. (University of Central Florida)
- BORRIECI, RICHARD**, Instructor of Marketing  
(2001), B.S., M.B.A. (Ohio University)
- BOSE, SUBIR K.**, Professor of Physics  
(1987), B.Sc., M.Sc., Ph.D. (University of Allahabad)
- BOTTORF, TIMOTHY J.**, Instructor Librarian  
(2004), B.A., M.L.I.S. (University of Pittsburgh)
- BOUKOBZA, LAURENT**, Associate Professor of Music  
(2004), Diploma (Paris Conservatory)
- BOWDON, MELODY A.**, Assistant Professor of English  
(1999), B.A., M.A., Ph.D. (University of Arizona)
- BOWERS, CLINT**, Assistant Dean, College of Arts & Sciences, and Professor of Psychology  
(1994), B.S., M.A., Ph.D. (University of South Florida)
- BOWIE, DAVID F.**, Assistant Professor of English  
(2003), B.A., Ph.D. (University of Pennsylvania)
- BOYD, BELINDA**, Associate Professor of Theatre  
(1986), B.S., M.F.A. (San Diego State University)
- BOYTE, JUDITH P.**, Special Projects  
(1984), B.A., M.P.A. (University of Central Florida)
- BOZEMAN, WILLIAM C.**, Professor of Education  
(1985), B.A., M.Ed., Ph.D. (University of Wisconsin)
- BRADATAN, CRISTINA E.**, Assistant Professor of Sociology  
(2004), B.A., M.A., Ph.D. (Pennsylvania State University)
- BRADFORD, RALPH E.**, Instructor of Political Science  
(1998), B.A., M.A. (University of Central Florida)
- BRAIN, PRISCILLA V.**, Instructor of English  
(1984), B.A., M.A. (University of Central Florida)
- BRAUN, BRADLEY M.**, Associate Professor of Economics  
(1986), B.S., M.A., Ph.D. (Tulane University)
- BRAUNSTEIN, GABRIEL**, Associate Professor of Physics  
(2000), D.Sc. (Technion)
- BREITER, DEBORAH**, CFHFA Professor of Convention and Conference Management and Associate Professor of Hospitality Management  
(2000), B.A., M.P.S., Ph.D. (University of South Carolina)
- BREWER, ERNEST A.**, Visiting Instructor of Education  
(1999), B.A.E., M. Ed. (University of Florida)
- BREWER, THOMAS**, Associate Professor of Education  
(1996), B.A., M.A., Ph.D. (Florida State University)
- BRICE, ALEJANDRO**, Associate Professor of Communicative Disorders  
(1997), B.A., M.A., Ph.D. (University of Florida)
- BRITT, DANIEL**, Associate Professor  
(2003), Ph.D. (Brown University)
- BRODIE, LYMAN A.**, Associate Dean, College of Arts & Sciences and Professor of Music  
(1990), B.A., M.M.E. (University of North Texas)
- BROTHERTON, MARK W.**, Associate Professor of Theatre  
(1996), B.F.A., M.F.A. (Pennsylvania State University)
- BROWN, EMMA J.**, Chatlos Endowed Professor of Nursing  
(1999), Ph.D., R.N., C.S. (University of Florida)
- BROWN, JAMES C.**, Assistant Professor of Theatre  
(2001), B.F.A., M.F.A. (San Diego State University)
- BROWN, TIMOTHY**, Assistant Professor of Communication  
(2004), B.A., M.A. (University of South Carolina)
- BROWNLAW, ROBERT**, Instructor of Music  
(2001), B.M., M.M., Ph.D. (Iowa)
- BRUNNER, DAVID L.**, Director of Choral Activities and Professor of Music  
(1988), B.M.E., M.M., D.M.A. (University of Illinois)
- BRUNSON, RICK**, Instructor of Communication  
(2003), B.A., M.A. (University of South Florida)
- BUCHOFF, RITA B.**, Instructor of Education  
(1989), B.A., M.A., Ed.D. (University of Florida)
- BURKHART, RYAN**, Instructor  
(2001), B.F.A., M.F.A. (Texas Tech University)
- BURRELL, JASON, E.**, Instructor  
(2002), B.A., M.F.A. (University of Cincinnati)
- BURROUGHS, DANIEL**, Associate Professor of Engineering Technology  
(2002), B.S., M.S., Ph.D. (Dartmouth College)
- BUSCH, KURT**, Associate Professor  
(2003), Ph.D. (University of Karlsruhe)
- BUSHY, ANGELINE A.**, Bert Fish Eminent Chair of and Professor of Nursing  
(1995), B.S.N., M.Ed., M.N., Ph.D. (University of Texas at Austin)
- BUTCHER, LONNY J.**, Visiting Instructor of Management  
(2001), B.S., M.A. (Louisiana State University - Baton Rouge)
- BUTLER, JOHN F.**, Associate Professor of Communication  
(1971), B.A., M.A., Ph.D. (University of Florida)
- BUTLER, RENEE**, Assistant Professor of Engineering  
(2003), Ph.D. (Georgia Tech)
- BYERS, JACQUELINE**, Associate Professor of Nursing  
(1996), B.S.N., M.S.N., Ph.D. (University of Florida)
- BYRD, ANTHONY K.**, Chair and Associate Professor of Finance  
(1993), B.S., M.B.A., Ph.D. (University of South Carolina)
- CALESTANI, CRISTINA**, Assistant Professor of Biology  
(2003), Ph.D. (University of Parma)
- CALLAHAN, JUDITH S.**, Assistant Professor of Management  
(2001), B.A., M.B.A., Ph.D. (University of Maryland - College Park)
- CALLARMAN, WILLIAM G.**, Associate Professor of Management  
(1972), B.B.A., M.B.A., Ph.D. (Arizona State University)
- CAMP, DONNA J.**, Associate Professor of Education  
(1989), B.A., M.Ed., Ph.D. (University of Oklahoma)
- CAMPBELL, ANNA**, Assistant Professor of Sociology  
(2005), B.A., M.A. (University of Texas-Austin)
- CAMPBELL, JAMES**, Associate Professor of English  
(1996), B.A., M.A., Ph.D. (University of Notre Dame)
- CAMPIGLIA, ANDRES**, Associate Professor of Chemistry  
(2003), B.S., M.S., Ph.D. (University of Florida)
- CAMPINS, HUMBERTO**, Professor  
(2003), Ph.D. (University of Arizona)
- CANNON, JOHN R.**, Professor of Mathematics  
(1993), B.A., M.A., Ph.D. (Rice University)
- CARDARELLI, DIANE**, Instructor of Music  
(2000), Ed.D. (University of Central Florida)
- CARON, RICHARD M.**, Associate Professor of Mathematics  
(1972), B.A., Ph.D. (Louisiana State University)
- CARPENTER, JOHN A.**, Assistant Professor of English  
(2003), B.A., M.A., M.L.I.S., Ph.D. (University of South Carolina)
- CARTA, ROBERTO**, Visiting Assistant Professor  
(2004), B.S., M.S., Ph.D. (Carnegie Mellon University)
- CASADO, MONTSERRAT**, Assistant Professor of Education  
(2000), B.A., M.A. Ed.S., Ph.D. (University of South Carolina)
- CASE, LYN**, Assistant University Librarian  
(2000), B.A., M.L.I.S. (University of South Florida)
- CASH, MASON**, Assistant Professor of Philosophy  
(2003), B.S., Dip.Hum. M. Phil, Ph.D (University of Alberta)
- CASMIER-PAZ, LYNN A.**

Associate Professor of English (1997), B.A., M.A., Ph.D. (University of Pittsburgh)	(2001), Ph.D. (Tsinghua University)	(1968), B.A., M.S. Ph.D. (Florida State University)	<b>CONNELL, LESLIE</b> , Instructor of Management	<b>CRAWFORD, PATRICIA</b> , Associate Professor of Education
<b>CASSANELLO, RROBERT V.</b> , Visiting Assistant Professor of History	<b>CHEN, RUEY-HUNG</b> , Associate Professor of Engineering	<b>CLARKE, EUGENE A.</b> , Assistant Professor of Education	(1995), B.A., M.B.A. (University of Central Florida)	(1996), B.S., M.Ed., Ph.D. (Pennsylvania State University)
(2003), B.A., M.A., Ph.D. (Florida State University)	(1993), B.S., M.S., Ph.D. (University of Michigan)	(1969), M.A., Ph.B. (University of Central Florida)	<b>CONROY, ANNABELLE</b> , Assistant Professor	<b>CRAWLS, ROLANDIS</b> , 1 Lt., USAF, Assistant Professor of Aerospace Studies
<b>CATBAS, NECATI</b> , Assistant Professor of Engineering	<b>CHENEY, JOHN M.</b> , Associate Professor of Finance	<b>CLARK, JAMES</b> , Instructor of History	(2004), B.A., M.A., Ph.D. (University of Pittsburgh)	(2001), B.A., M.A. (Valdosta State)
(2003), B.S.C.E., M.S., Ph.D. (University of Cincinnati)	(1977), B.B.A., M.B.A., D.B.A. (University of Tennessee)	(1986), B.A., M.A., Ph.D. (University of Florida)	<b>CONWAY, TED</b> , Associate Professor of Engineering	<b>CREPEAU, RICHARD C.</b> , Professor of History
<b>CATO, FARIDA M.</b> , Instructor of English	<b>CHENEY, PAUL H.</b> , Chair and Professor of Management Information Systems	<b>CLARKE, THOMAS L.</b> , Associate Professor of Mathematics	(1999), B.S., M.S., PhD (Illinois at Urbana-Champaign)	(1972), B.S., M.A., Ph.D. (Florida State University)
(2003), B.A., M.A. (University of Central Florida)	(1999), B.S., M.B.A., Ph.D. (University of Minnesota)	(2001), B.S., M.S., Ph.D. (University of Miami)	<b>COOK, IDA J.</b> , Associate Professor of Sociology	<b>CROES, ROBERTICO</b> , Associate Professor of Hospitality Management
<b>CELAYA, BEATRIZ</b> , Assistant Professor of Modern languages and Literatures	<b>CHERNYAK, LEONID</b> , Assistant Professor	<b>CLAUSEN, CHRISTIAN A., III</b> , Professor of Chemistry	(1976), B.A., M.S., Ph.D. (North Carolina State University)	(2002), B.A., M.A., Ph.D. (University Twente Netherlands)
(2003), B.A., M.A., Ph.D. (Washington University, St. Louis)	(1999), Ph.D. (Weizmann Institute)	(1969), B.S., Ph.D. (Louisiana State University)	<b>COOK, KATHY S.</b> , Internship Coordinator and Instructor of Legal Studies	<b>CROSS, LEE</b> , Associate Professor of Education
<b>CHAI, KARL X.</b> , Associate Professor of Molecular Biology and Microbiology	<b>CHERRY, B. R.</b> , Instructor of Legal Studies	(1969), B.S., Ph.D. (Louisiana State University)	(1983), B.A., J.D. (University of Florida)	(1990), Ph.D. (University of North Carolina at Chapel Hill)
(1996), B.S., Ph.D. (Medical University of South Carolina)	(1999), B.A., J.D. (University of Florida)	<b>CODDINGTON, NICHOLAS E. MAJ.</b> , Assistant Professor of Military Science	<b>COOK, LISA</b> , Visiting Lecturer of Film	<b>CROUSE, TACE T.</b> , Visiting Assistant Professor of Education
<b>CHAKRABARTI, DEBOPAM</b> , Associate Professor of Molecular Biology and Microbiology	<b>CHEW, LARRY</b> , Associate Professor of Engineering	B.S. (United States Military Academy), M.E.M. (Saint Martin's College), M.S.S.I. (Joint Military Intelligence College)	(1979), B.A. (Rutgers University)	(2000), B.S., M.Ed., Ed.D. (University of Central Florida)
(1995), B.A., M.S., Ph.D. (University of Calcutta-Bose Institute)	(1990), B.A., B.S., M.S., Ph.D. (University of Washington)	<b>COFFEY, KEVIN</b> , Assistant Professor of Engineering	<b>COOPER, C. DAVID</b> , Professor of Engineering	<b>CROWSON, LAWRENCE</b> , Instructor of Marketing
<b>CHAKRABARTI, RATNA</b> , Associate Professor of Molecular Biology and Microbiology	<b>CHICUREL, STEVEN</b> , Associate Professor of Theatre	(2002), B.S., B.A., M.S., PhD (MIT)	(1980), B.S., M.S., Ph.D. (Clemson University), P.E. (Florida, Texas)	(2002), B.A. B.S., MBA (University of Alabama)
(1996), B.S., M.S., Ph.D. (University of Calcutta)	(1998), B.M., M.M., D.M.A. (University of Kentucky)	<b>COHN, SHERYL</b> , Instructor of Education	<b>COOWAR, ROSIDA</b> , Associate Professor of Engineering Technology	<b>CRUMPTON-YOUNG, LESIA</b> , Chair, Professor of Engineering
<b>CHASE, ARLEN F.</b> , Professor of Anthropology	<b>CHIN, MATTHEW</b> , Instructor in Psychology	(2002), B.A., M.A., Ed.D. (Nova Southeastern University)	(1992), Dipl. Engr., M.S.E.E., Ph.D. (University of Central Florida)	(2002), B.S., M.S., PhD (Taxes A & M University)
(1984), B.A., Ph.D. (University of Pennsylvania)	(1998), B.A., M.A., Ph.D. (University of California Santa Barbara)	<b>COLBY, PETER W.</b> , Professor of Public Administration	<b>CORNETT, JEFFREY W.</b> , Chair and Professor of Education	<b>CURASI, PAUL</b> , Research Associate
<b>CHASE, DIANE Z.</b> , Interim Assistant Vice President, International and Interdisciplinary Studies, and Pegasus Professor of Anthropology	<b>CHO, HYOUNG</b> , Assistant Professor of Engineering	(1985), B.A., Ph.D. (Brandeis University)	(1989), B.S., M.Ed., Ph.D. (Ohio State University)	(1973), B.A. (Florida State University)
(1984), B.A., Ph.D. (University of Pennsylvania)	(2002), B.S., M.S., PhD (University of Cincinnati)	<b>COLDING, LINDA K.</b> , Assistant University Librarian	<b>CORNETT, VICKI</b> , Instructor of Education	<b>CUTCHINS, CONSTANCE E.</b> , Instructor in Statistics
<b>CHATTERJEE, MAINAK</b> , Assistant Professor of Engineering	<b>CHOI, YOON K.</b> , Associate Professor of Finance	(1999), B.A., M.A., M.S.L.S., D.P.A. (University of Alabama)	(1987), B.S., M.Ed. (University of Toledo)	(1985), B.A., M.A. (Pennsylvania State University)
(2002), B.S., M.S., Ph.D (University of Texas at Arlington)	(1997), B.S., M.S., Ph.D. (University of Michigan)	<b>COLE, ALEXANDER</b> , Assistant Professor	<b>CORREA, EDA M.</b> , Assistant University Librarian	<b>CUTLER, JUDY</b> , Assistant Professor
<b>CHAVDA, JAGDISH J.</b> , Professor of Art	<b>CHOPRA, MANOJ</b> , Associate Professor of Engineering	(2003), Ph. D., Cell Biology/Biomedical Sciences	(1999), B.A., M.L.S. (University of Puerto Rico)	(2003), B.A., M.A., Ph.D. (State University of New York)
(1972), B.F.A., M.F.A. (Michigan State University)	(1993), B.S., M.S., Ph.D. (State University of New York at Buffalo), P.E. (Florida)	<b>COLLEY, CLIFFORD</b> , Captain, USAF, Assistant Professor of Aerospace Studies	<b>CORZINE, JAY</b> , Chair and Professor of Sociology	<b>DA VITORIA LOBO, NIELS</b> , Associate Professor of Computer Science
<b>CHEN, HUEY SHYS</b> , Assistant Professor	<b>CHOUDHURY, SUDIPTO R.</b> , Associate Professor of Mathematics	(2000), B.S., M.S. (Troy State University)	(1996), B.A., M.A., Ph.D. (Washington University)	(1993), B.Sc., M.Sc., Ph.D. (University of Toronto)
(2004), BSN, MSN, PhD (University of Texas)	(1990), B.S., M.S., Ph.D. (Cornell University)	<b>COLLINS, STEVEN</b> , Assistant Professor of Communication	<b>COSTAIN, RAYMOND E.</b> , Assistant Professor of Communication	<b>DAIRE, ANDREW</b> , Assistant Professor of Education
<b>CHEN, PO-JU</b> , Assistant Professor of Hospitality Management	<b>CHOW, LEE</b> , Professor of Physics	(2003), B.A., M.A., Ph.D. (Syracuse University)	(2001), B.A., M.A., Ph.D (Iowa University)	(2001), B.S., M.S., Ph.D. (Florida State University)
(2002), B.A., M.S. (Pennsylvania State University)	(1983), B.S., Ph.D. (Clark University)	<b>COMPSON, JANE</b> , Instructor of Humanities, Philosophy, and Religion	<b>COURTNEY, JAMES F.</b> , Professor of Management Information Systems	<b>DALKIRAN, DEMET</b> , Visiting Instructor of Finance
<b>CHEN, QUANFANG</b> , Assistant Professor of Engineering	<b>CHOW, LOUIS C.</b> , Professor of Mechanical, Materials, and Aerospace Engineering	(2003), B.A., M.A., Ph.D (University of Bristol)	(2000), B.A., M.B.A., Ph.D. (University of Texas at Austin)	(2002), B.S., MBA (University of Central Florida)
	(1996), A.B., M.S., Ph.D. (University of California, Berkeley)	<b>CONDLY, STEVEN J.</b> , Assistant Professor of Education	<b>COVELLI, MAUREEN M.</b> , Assistant Professor, School of Nursing	<b>DALRYMPLE, BRENT B.</b> , Instructor of Finance
	<b>CIRCLE, DARLENE</b> , Instructor of Education	(1999), B.A., M.Ed., Ph.D. (University of Southern California)	(1989), R.N., Ph.D., (University of Florida)	(2000), B.A., M.B.A., Ph.D. (Louisiana State University)
	(2001), B.S., M.S. (Nova Southeastern University)	<b>CONGDON, KRISTIN G.</b> , Professor of Film and Humanities	<b>COVERSTON, HARRY S.</b> , Visiting Instructor of Humanities	<b>DANIELL, HENRY</b> , Professor of Molecular Biology and Microbiology
	<b>CLAMPITT, JOYCE A.</b> , Associate Vice President, Administration and Finance	(1989), B.A., M.S., Ph.D. (University of Oregon)	(2003), B.A., J.D., M.Div, Ph.D (Florida State University)	(1998), B.S., M.S., Ph.D. (Madurai-Kamaraj University)

## UCF Faculty and Staff

- Professor of Marketing  
(1998), B.S., M.B.A., Ph.D.  
(University of Arizona)
- DAVIDSON, ADENIKE M.**, Assistant Professor of English  
(2000), B.A., M.A., Ph.D.  
(University of Maryland)
- DAVIDSON, ZYNULENE MSG.**, Chief Instructor
- DAVIS, DUANE L.**, Professor of Marketing  
(1978), B.S., M.B.A., D.B.A.  
(University of Kentucky)
- DAVIS, JILL**, Visiting Instructor  
(2003), MSW (University of Central Florida)
- DAVIS, LAUREL**, Clinical Instructor/Undergraduate Field Coordinator, School of Social Work  
(1996), B.A., M.S.W. (Case Western Reserve University)
- DAVIS, ROBERT H.**, Professor of Communication  
(1977), B.A., M.A. (Ohio State University)
- DECKER, BERNARD**, Associate Professor of Modern Languages and Literatures  
(1989), B.A., M.A., Ph.D.  
(Cornell University)
- DEES, DAVID R.**, Assistant Dean, Enrollment and Academic Services, and Associate Professor of Sociology  
(1972), B.A., M.A., Ph.D.  
(University of Notre Dame)
- DEETS, JENNIFER L.**, Assistant Professor of Education  
(1998), B.A., M.A., Ph.D.  
(University of Texas at Austin)
- DeGEORGE, LAURYN**, Instructor of Management  
(1998), B.S., M.B.A. (University of Wales at Aberystwyth)
- DELFYETT, PETER, JR.**, Associate Professor of Engineering  
(1993), B.E., M.S., M.Phil., Ph.D. (City University of NY)
- DeLORME, DENISE E.**, Associate Professor of Communication  
(1996), B.A., M.A., Ph.D.  
(University of Georgia)
- DEMARA, RONALD F.**, Associate Professor of Electrical and Computer Engineering  
(1993), B.S., M.S., Ph.D.  
(University of Southern California), P.E. (California)
- DENNIS, KAREN**, Professor of Nursing  
(2000), F.A.A.N., R.N., Ph.D.,  
(University of Maryland)
- DEO, NARSINGH**, Professor of Computer Science; Holder of the Charles N. Millican Chair in Computer Science  
(1986), B.Sc., M.S., Ph.D.  
(Northwestern University)
- DESAI, VIMAL H.**, Professor of Engineering  
(1984), B.S., M.S., Ph.D.  
(Johns Hopkins University), P.E. (Florida)
- DESIRAJU, RAMARAO**, Associate Professor of Marketing  
(1999), B. Tech, Ph.D.  
(University of Florida)
- DeSMARAIS, PAUL**, Visiting Assistant Professor  
(2003), BSN, MSN, PhD  
(University of Massachusetts)
- DIBERNARDO, SABATINO**, Instructor of Religion, Philosophy, and Humanities  
(2001), B.A., M.A., M.Phil, Ph.D.  
(Syracuse University)
- DICKIE, MARK T.**, Professor of Economics  
(2001), B.A., Ph.D. (University of Wyoming)
- DICKSON, DUNCAN**, Assistant Professor of Hospitality Management  
(2001), B.A., M.P.S. (Cornell University)
- DIETZ, JOHN D.**, Associate Professor of Engineering  
(1982), B.S., M.S., Ph.D.  
(Clemson University), P.E. (Florida, Mississippi)
- DIETZ, TRACY L.**, Associate Professor of Sociology  
(1997), B.A., M.A., Ph.D.  
(University of North Texas)
- DILLARD, JESSE F.**, Chairholder, KPMG Professorship and Professor of Accounting  
(2000), B.S., M.S., Ph.D.  
(University of South Carolina)
- DINAPOLI, JOSEPH**, Visiting Instructor- Brevard  
(2002), M.S., Speech-Language Pathology (Columbia University)
- DIPBOYE, ROBERT L.**, Professor of Psychology  
(2004), B.A., M.S., Ph.D.  
(Purdue University)
- DIPIERRO, JOHN C.**, Associate Professor of Modern languages and Literatures  
(1970), A.B., M.A., Ph.D.  
(University of Kansas)
- DIVO, 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, CHRIS J.**, Assistant Professor  
(2002), B.A., M.A., Ph.D.  
(University of South Carolina)
- DOMBROWSKI, JUDITH**, Visiting Instructor of Education  
(1999), B.A., M.Ed., M.A. (The Pennsylvania State University)
- DOMBROWSKI, PAUL M.**, Associate Professor  
(1997), B.A., M.A., M.Ed., Ph.D. (Rensselaer Polytechnic Institute)
- DORNER, JOYCE E.**, Executive Associate Dean, College of Health and Public Affairs and Associate Professor of Nursing  
(1980), R.N., M.S.N.  
(University of Florida)
- DOUGLASS, SHARON E.**, Associate Professor of Health Sciences  
(1980), B.S., M.S. (University of New York at Buffalo)
- DOW, KAREN HASSEY**, Professor of Nursing  
(1995), B.S.N., M.S.N., Ph.D.  
(Boston College)
- DOWNING, SPENCER**, Visiting Assistant Professor of History  
(2001), B.A., M.A., Ph.D.  
(University of North Carolina)
- DRAKE, JAMES A.**, Associate Vice President and Director of Southern Region Area Campuses  
(1994), A.B., Ph.D., (Ohio State University)
- DREILINGER, GILLIAN**, Instructor of Communicative Disorders  
(1989), B.S., M.S. (Texas Tech University)
- DUBEY, ARCHANA**, Instructor  
(2002), Ph.D. (Bhavnagar 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)
- DUNLAP, RILEY E.**, Professor of Sociology  
(2005), B.A., M.S., Ph.D.  
(University of Oregon)
- DUNLOP-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)
- of South Florida)
- DUPRAS, TOSHA L.**, Assistant Professor of Anthropology  
(1999), B.A., M.S., Ph.D.  
(McMaster University)
- 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 Computer Science  
(1972), B.S., M.S., Ph.D.  
(Washington State University)
- DUVALL, RICK**, Assistant Professor of Education  
(2001), B.A., M.Ed., Ph.D.  
(University of South Carolina)
- DWYER, PEGGY D.**, Associate Professor of Accounting  
(1997), B.A., Ph.D. (University of Missouri-Columbia)
- DZIUBAN, CHARLES D.**, Director, Research Initiative for Teaching Effectiveness, and Professor of Education  
(1970), B.S., M.Ed., Ph.D.  
(University of Wisconsin)
- EAGLIN, RONALD**, Assistant Dean for Distributed Learning and Chair Engineering Technology  
(1995), B.S.M.E., M.S. Env E., Ph.D. (University of Central Florida)
- EASTEP, MARY ANN**, Internship Coordinator and Instructor of Criminal Justice  
(1995), B.A., M.S.  
(Shippensburg University of Pennsylvania)
- EBSTER, DEBORAH M.**, Associate University Librarian  
(2003), B.A., M.S. (University of Illinois)
- ECHAMBADI, RAJ**, Assistant Professor of Marketing  
(1998), B.S., M.B.A., Ph.D.  
(University of Houston)
- EDWARDS, OLIVER W.**, Assistant Professor of Education  
(2002), M.Ed, Ed.S, Ed.D.  
(Florida International University)
- EDWARDS III, THOMAS J.**, Director, Radiologic Sciences Program and Associate Professor of Health Sciences  
(1980), RT (ARRT), B.S., B.S.R.T., M.A., Ed.D.  
(University of Central Florida)
- EFTHIMOU, COSTAS**, Assistant Professor  
(2002), Ph.D. (Cornell University)
- EHASZ, MARIBETH**, Vice President for Student Development and Enrollment Services  
(1994), B.S., M.A., Ph.D.  
(University of Toledo)
- EIDSON, SUE ANN**, Instructor of Communicative Disorders  
(2001), B.S., M.S. (Florida State University)
- EJNIOU, A.**, Assistant Professor of Engineering  
(2001), B.S., M.S., PhD  
(University of South Florida)
- ELLIOTT, KIERSTEN M.**, Assistant Professor of Marketing  
(2001), B.S., Ph.D. (Duke University)
- ELLIS, E. TAYLOR**, Associate Dean, Undergraduate Programs, and Associate Professor of Hospitality Management  
(1990), B.S., M.S., M.B.A., Ph.D. (Texas A&M University)
- ELSHEIMER, SETH R.**, Associate Professor of Chemistry  
(1985), B.S., Ph.D. (University of Florida)
- ELSHENNAWY, AHMAD K. M.**, Associate Professor of Engineering  
(1986), B.S., M.S., M.Eng., Ph.D. (Pennsylvania State University)
- ELSTON, JULIE, A.**, Assistant Professor of Economics  
(1998), B.S., Ph.D. (University of Washington)
- ENGLEHART, DEIRDRE**, Visiting Instructor of Education  
(1999), B.A., M.Ed. (University of Central Florida)
- ETHRIDGE, STEPHEN**, Instructor of English  
(2004), B.A., M.A. (University of Central Florida)
- EUZENT, PATRICIA J.**, Instructor of Economics  
(1991), B.A., M.A. (Clemson College)
- EVANS, DOUG**, Instructor of Humanities  
(2002), B.A., M.A., Ph.D.  
(Florida State University)
- EVANS, RUBY**, Associate Professor of Education  
(2002), B.S., M.A.S., Ed.D.  
(University of Florida)
- EVANS, THOMAS G.**, Professor of Accounting  
(1990), B.S., M.B.A., Ph.D.  
(Michigan State University)
- EVERETT, JR., ROBERT M.**, Associate Professor of Education  
(1990), B.S., M.S., Ph.D.  
(University of Southern Mississippi)
- EZELL, DAN**, Assistant Professor of Education  
(1997), Ed.D. (University of Alabama)
- FABERY, DINA A.**, Instructor of Modern languages and Literatures  
(1996), B.A., M.A., (University



- of South Carolina)
- FABIANIC, DAVID A.**, Professor of Criminal Justice (1985), B.A., M.S., Ph.D. (University of Iowa)
- FALEN, THOMAS J.**, Program Director/Instructor of Health Information Management and Health Services Administration (1996), B.S., M.A. (Webster University)
- FANG, JIYU**, Associate Professor of Engineering Ph.D. (Southeast University)
- FARLESS, PATRICIA**, Instructor of History (1997), B.A., M.A. (University of Central Florida)
- FAUTH, JOHN E.**, Associate Professor of Biology (2003), Ph.D. (Duke University)
- FAVOROV, OLEG V.**, Associate Professor of Computer Science (1999), B.S., Ph.D. (University of North Carolina at Chapel Hill)
- FEDLER, FREDERIC E.**, Professor of Communication (1971), B.S., M.A. (University of Minnesota)
- FELDHEIM, MARY ANN**, Associate Professor of Public Administration (1997), B.S.N., M.S.N., Ph.D. (Florida Atlantic University)
- FERNALD, LLOYD W.**, Professor of Management (1983), B.S., M.S., D.B.A. (The George Washington University)
- FERNANDEZ, JOSE B.**, Associate Dean, College of Arts & Sciences and Pegasus Professor of History and Modern languages and Literatures (1981), B.A., M.A., Ph.D. (Florida State University)
- FERNANDEZ-VALLE, CRISTINA**, Associate Professor of Molecular Biology and Microbiology (1995), B.S., Ph.D. (University of Miami)
- FINE, TERRI S.**, Associate Professor of Political Science (1989), B.A., M.A., Ph.D. (University of Connecticut)
- FINNOFF, DAVID C.**, Assistant Professor of Economics (2001), B.S., Ph.D. (University of Wyoming)
- FIORE, STEPHEN M.**, Research Associate (1998), B.S., M.S., Ph.D. (University of Pittsburg)
- FISHER, RANDY D.**, Associate Professor of Psychology (1971), B.A., Ph.D. (Vanderbilt University)
- FISHER, THOMAS**, Visiting Instructor of Education (1998), M.A. (Rollins College)
- FISHER, WILLIAM P.**, Darden Eminent Scholar in Restaurant Management and Professor of Hospitality Management (2001), B.S., M.B.A., Ph.D. (Cornell University)
- FLAGG, JAMES R.**, Instructor of Legal Studies (1996), B.B.A., J.D., L.L.M. (Washburn University)
- FLAMMIA, MADELYN**, Associate Professor of English (1990), B.A., M.A., Ph.D. (Rutgers University)
- FLANNERY, FRANCIS GARY**, Assistant in Theatre
- FLITSIYAN, ELENA**, Assistant Professor (2002), Ph.D. (UzSSR Academy of Science)
- FLUEGEL, DARLANNE**, Visiting Lecturer of Film
- FOLSE, KEITH, S.**, Assistant Professor of Modern languages and Literatures (2000), B.A., M.A., Ph.D. (University of South Florida)
- FOOKES, BARRY G.**, Professor of Chemistry/Forensic Sciences (1997), B.S., Ph.D. (Brunel)
- FOOROSH, HASSAN**, Assistant Professor of Computer Science (2002), B.S., M.S., Ph.D. (Institute National dela Recherche)
- FORD, CAMERON**, Associate Professor of Management (1997), B.S., Ph.D. (Pennsylvania State University)
- FORD, JASON A.**, Assistant Professor of Sociology (2002), B.A., M.A., Ph.D. (Bowling Green State University)
- FORD, ROBERT C.**, Associate Dean, College of Business Administration, Professor of Management (1993), B.A., M.B.A., Ph.D. (Arizona State University)
- FORD, ROBERT E.**, Instructor of Criminal Justice (2000), B.A., M.A., Ph.D. (University of Illinois)
- FOTTLER, MYRON D.**, Professor and Program Director of Health Services Administration Program (1999), B.S., M.B.A., Ph.D. (Columbia University)
- FRANCIS, MADISON K.**, Chair and Professor of Art (1996), B.F.A. (Cleveland Institute of Art)
- FREDERICK, TERRY J.**, Associate Dean, College of Arts & Sciences, Professor of Digital Media, and Distinguished Service Professor of Computer Science (1975), B.S., M.S., Ph.D. (University of Wisconsin)
- FRITZSCHE, BARBARA**, Associate Professor of Psychology (1996), B.S., M.A., Ph.D. (University of South Florida)
- FRYE, MELISSA**, Assistant Professor of Finance (1999), B.S., Ph.D. (Georgia Institute of Technology)
- FULLER, DAVID**, Assistant Professor of Education (2002), B.A., M.Ed., Ph.D. (Southern University)
- FULLER, DONALD A.**, Associate Professor of Marketing (1972), BSIM, M.B.A., Ph.D. (Georgia State University)
- GALLAGHER, SHAUN**, Professor of Philosophy (2003), B.A., M.A., M.A., Ph.D. (Bryn Mawr College)
- GAMMONLEY, DENISE**, Assistant Professor of Social Work (2003), BS, MSW, Ph. D. (University of North Carolina-Chapel Hill)
- GANESH, JAISHANKAR**, Assistant Professor of Marketing (1996), B.S., B. Tech., M.B.A., Ph.D. (University of Houston)
- GARCIA, JUAN, T Sgt.** NCOIC, Information Management (1995)
- GARCIA, NORA LEE**, Assistant Professor of Music (1996), B.M., M.M., D.M.A. (University of Miami)
- GARCIA, STEPHANIE MAY-FIELD**, Visiting Instructor of Marketing (2001), B.A., M.S. (Florida International University)
- GARDNER, JERRY Y.**, Associate Professor of Music (1980), B.M., M.M. (Boston University)
- GAU, WU-CHYUAN**, Assistant Professor (2002), B.S., M.S., Ph.D. (Boston University)
- GAUDELLI, WILLIAM**, Assistant Professor of Education (2000), B.A., Ed.D. (Rutgers University)
- GAUSE, JR., J. RICHARD**, Associate University Librarian (1998), B.S., M.B.A., M.L.S. (Florida State University)
- GAY, DAVID**, Associate Professor of Sociology (1989), B.A., M.A., Ph.D. (Duke University)
- GEIGER, CHERIE L.**, Assistant Professor of Chemistry (1996), B.S., Ph.D. (University of South Florida)
- GEIGER, CHRISTOPHER**, Assistant Professor of Engineering (2004), Ph.D. (Purdue University)
- GELENBE, EROL**, Research Professor (1998), Ph.D. (Polytechnic University), D.Sc. (University of Paris)
- GENNARO, ROBERT N.**, Interim Associate Dean, College of Health and Public Affairs, Professor of Molecular Biology and Microbiology (1970), B.S., M.S., Ph.D. (Texas A&M University)
- GEORGIPOULOS, MICHAEL**, Graduate Coordinator and Professor of Engineering (1986), DIPL.E., M.S., Ph.D. (University of Connecticut), P.E. (Greece)
- GERGLEY, GERALD R.**, Associate Professor of Education (1970), Ed.B., Ed.M. (State University of New York)
- GERKING, SHELBY**, Professor of Economics (2001), B.A., M.B.A., M.A., Ph.D. (Indiana University)
- GERSTEIN, MARK**, Assistant Professor of Film (1986), B.A. (University of Chicago)
- GERVASI, KAREEN**, Assistant Professor of Modern languages and Literatures (2003), B.A., M.A., Ph.D. (University of Southern California)
- GIANNUZZI, LUCILLE A.**, Professor of Engineering (1994), B.E., M.S., Ph.D. (Pennsylvania State University)
- GIBB, ROBERT W., SFC**, Operations Sergeant
- GIBBS, W. ERNEST**, Associate Professor of Economics (1987), B.S., M.B.A., M.A., Ph.D. (Rutgers University)
- GILKESON, JAMES H.**, Associate Professor of Finance (1994), B.S., M.S.M., Ph.D. (Duke University)
- GILSON, RICHARD**, Professor of Psychology (1985), B.S., M.S., Ph.D. (Princeton University)
- GIORDANO, PAUL**, Chair and Professor of Modern languages and Literatures (2004), B.A. (Southern Connecticut State University), M.A., Ph.D. (Indiana University)
- GODA, DONNA**, Instructor Librarian (1999), B.S., M.A., M.L.I.S. (San Jose State University)
- GOLDSTEIN, WARREN S.**, Assistant Professor of Sociology (2001), B.A., M.A., Ph.D. (New School for Social Research)
- GOLDWATER, PAUL M.**, Associate Professor of Accounting (1989), B.C., B.S., Ph.D. (Louisiana State University-Baton Rouge)
- GOMEZ, FERNANDO J.**, Professor of Computer Science (1981), B.A., M.A., M.A., Ph.D. (Ohio State University)
- GOMRAD, MARYELLEN**, Instructor of English (2002), B.A., M.A. (University of Central Florida)
- GONZALEZ, AVELINO J.**, Professor of Engineering (1986), B.S.E.E., M.S.E.E., Ph.D. (University of Pittsburgh), P.E. (Florida)
- GONZALEZ, FERNANDO**, Assistant Professor of Engineering (1998), Ph.D. (University of Illinois, Urbana)
- GOODMAN, STEPHEN H.**, Associate Professor of Management Information Systems (1984), B.S., M.B.A., Ph.D. (Pennsylvania State University)
- GORDON, FON**, Professor of History (2001), B.A., M.S.E., Ph.D. (University of Arkansas)
- GOSNELL, SUSAN**, Visiting Instructor of Health Sciences(Radiologic Sciences) (1999), B.S., M.S. (Florida Institute of Technology)
- GOWAN, MARY**, Associate Professor of Management (1998), B.A., M.A., Ph.D. (University of Georgia)
- GRAHAM, RITA**, Instructor of Communication (2003), B.A., M.A., Ph.D. (University of Florida)
- GRAJEDA, ANTHONY**, Assistant Professor of English (2001), B.A., M.A., Ph.D. (University of Wisconsin-Milwaukee)
- GREEN, CHERYL E.**, Associate Professor of Social Work (1977), B.A., M.S.W., Ph.D. (Clark Atlanta University)
- GREENHAW, THOMAS D.**, Assistant Professor of History (1969), B.A., M.A., Ph.D. (Auburn University)
- GREENWOOD, RICHARD**, Director of Bands and Professor of Music (1988), B.M.E., M.M., Ph.D. (Florida State University)
- GRISSET, PAMALA L.**

# UCF Faculty and Staff

Associate Professor of Criminal Justice (1993), B.A., M.S., Ph.D. (State University of New York at Albany)	Louis)	Professor of Marketing (2001), B.B.A., Ph.D. (University of Houston)	(1995), B.A., M.F.A. (Alabama Shakespeare Festival)	Librarian (1989), B.S., M.L.S. (Louisiana State University)
<b>GUADNEK, WALTER</b> , Professor of Art (1970), M.A., Ph.D. (New York University)	<b>HAMBY, EILEEN F.</b> , Area Campus Coordinator/Associate Professor of Health Services Administration (1996), B.S., M.B.A., D.B.A. (Nova University)	<b>HARRIS, LANI</b> , Associate Professor of Theatre (1997), B.A., M.F.A. (University of Southern California)	<b>HEMSCHEMEYER, JUDITH</b> , Professor of English (1982), B.A., M.A. (University of Wisconsin)	<b>HITCHCOCK, DORILYN F.</b> , Program Director of Medical Laboratory Science and Instructor of Molecular Biology and Microbiology (1989), B.S., M.T., M.S. (Northeastern University)
<b>GUHA, ARUP</b> , Lecturer (1999), B.S., M.S. (University of Wisconsin)	<b>HAMPTON, EDWARD</b> , Instructor and Assistant Chair (2002), M.S., Permanent non-tenure (University of South California)	<b>HARRISON II, RICHARD, H.</b> , Associate University Librarian (2001), B.A., M.L.S. (Vanderbilt University)	<b>HENNIG, LINDA</b> , Coordinator of R.N. to B.S.N. Program and Instructor of Nursing (1989), B.S.N., Ed.D. (University of Central Florida)	<b>HITT, JOHN C.</b> , President of the University and Professor of Psychology (1992), B.A., M.S., Ph.D. (Tulane University)
<b>GUHA, RATAN K.</b> , Professor of Computer Science (1980), B.S., M.S., Ph.D. (University of Texas)	<b>HAMPTON, MICHAEL D.</b> , Associate Professor of Chemistry (1981), B.S., Ph.D. (Texas Tech University)	<b>HARTLE, LYNN</b> , Associate Professor of Education (2000), B.Ph., M.A., Ph.D. (The Pennsylvania State University)	<b>HEPNER, LYNN</b> , Instructor of English (1995), B.A., M.A. (University of Central Florida)	<b>HODGSON, SHARI</b> , Instructor of Communication (1999), B.A., M.A. (University of Central Florida)
<b>GULLO, MARIFRANCES</b> , Visiting Instructor (2004), RN, MSN (UCF)	<b>HAN, DEUANG</b> , Assistant Professor of Mathematics (1998), M.S., Ph.D. (Texas A&M University)	<b>HARTMAN, JOEL L.</b> , Vice Provost, Information Technologies and Resources (1995), B.S., M.S., Ed.D. (University of Central Florida)	<b>HERLIHY, KEVIN</b> , Instructor of History (2002), B.D., B.A., M.A., Ph.D. (University of Dublin)	<b>HOEKSTRA, ROBERT L.</b> , Associate Professor of Engineering (1993), B.A., M.DES., Ph.D. (University of Cincinnati)
<b>GUNDY, CYNTHIA</b> , Instructor of Marketing (2000), B.S., M.B.A. (University of Central Florida)	<b>HAN, ZHONGXIAN</b> , Assistant Professor (2003), B.S., M.S., Ph.D. (Ohio State University)	<b>HARVEY, CHARLOTTE</b> , Instructor of Communicative Disorders (1990), B.A., M.S., Ed.D. (University of Central Florida)	<b>HERNANDEZ, FLORENCIO E.</b> , Assistant Professor of Chemistry (2002), B.S., Ph.D. (Universidad de Venezuela)	<b>HOEPPNER, ATHENA R.</b> , Associate University Librarian (1995), B.F.A., M.L.S. (Simmons College)
<b>GUNTER, GLENDA</b> , Associate Professor of Education (1996), A.S., B.S., M.A., Ph.D. (Mississippi State University)	<b>HANCOCK, PETER</b> , Provost Distinguished Research Professor and Professor of Psychology (2001), B.Ed., M.Sc., Ph.D. (University of Illinois)	<b>HARVEY, JAMES E.</b> , Associate Professor of Engineering (1990), A.B., M.S., Ph.D. (Arizona State University)	<b>HERNANDEZ, FRANK</b> , MSgt, USAF, Detachment Superintendent (1992), A.A. (Community College of the Air Force)	<b>HOFLE, RICHARD A.</b> , Professor of Economics (1989), B.S., Ph.D. (University of North Carolina-Chapel Hill)
<b>GUO, LUJIA</b> , Assistant Professor of Statistics (2000), B.S., M.S., Ph.D. (University of Cincinnati)	<b>HANDBERG, ROGER B., JR.</b> , Chair and Professor of Political Science (1972), B.A., Ph.D. (University of North Carolina)	<b>HATCHER, KAREN J.</b> , Visiting Instructor of Education (1998), B.A., MaEd., Sp.Ed., Ed.D. (University of Arkansas)	<b>HEWITT, RANDALL</b> , Assistant Professor of Education (2001), B.A., M.A.E., Ph.D. (University of Florida)	<b>HOHENLEITNER, KATHLEEN</b> , Instructor of English (1998), B.A., M.A., Ph.D. (University of Notre Dame)
<b>GUPTA, PRANJAL</b> , Assistant Professor of Marketing (2001), B.Sc., M.B.A., Ph.D. (Texas A&M University)	<b>HANLON, CHRISTINE</b> , Instructor of Communication (2003), B.A., M.A. (University of Central Florida)	<b>HAWKINS, RACHEL</b> , Instructor of Communicative Disorders (1995), B.S., M.S. (Murray State University)	<b>HICKEY, TERRY L.</b> , Provost and Vice President, Academic Affairs and Professor of Psychology (2003), B.A., M.A., Ph.D. (University of Miami)	<b>HOLCOMB, AL D.</b> , Assistant Professor of Music (2000), B.M.E., M.M.E., Ph.D. (University of Hartford)
<b>GURNEY, DAVID W.</b> , Associate Professor of Education (1970), B.A., M.A., Ph.D. (Florida State University)	<b>HANSON, KENNETH</b> , Visiting Assistant Professor of Judaic Studies (2003),	<b>HAWKINS, RONNIE</b> , Associate Professor of Philosophy (1994), B.S., M.D., M.A., Ph.D. (University of Florida)	<b>HICKMAN, JAMES</b> , Director, Nanoscience and Technology Initiative Center, Professor of Chemistry, (2004), B.S., M.S., Ph.D. (Massachusetts Institute of Technology)	<b>HOLCOMB, LYGIA O.</b> , Associate Professor of Nursing (1997), B.S.N., M.S.N., D.S.N. (University of Alabama)
<b>HAGEDOORN, A. HENRY J.</b> , Associate Professor of Engineering (1972), B.S., M.S., Ph.D. (Cornell University), P.E. (Florida, Virginia)	<b>HARALAMBOUS, MICHAEL</b> , Assistant Professor of Engineering (1979), B.S., M.S., PhD (George Washington University)	<b>HAXTON, DAVID</b> , Professor of Art (1995), B.A., M.F.A. (University of Michigan)	<b>HIETT, SHARON LEE</b> , Associate Professor of Education (1971), B.A.E., M.Ed, Ph.D. (University of Florida)	<b>HOLDER, JANICE</b> , Instructor of Physical Therapy (1994), B.S., M.S.P.T. (Andrews University)
<b>HAGEN, SCOTT C.</b> , Associate Professor of Engineering (1997), BSE, Ph.D. (University of Notre Dame), P.E. (Florida)	<b>HARAN, KEVIN</b> , Instructor of Art (1995), B.A., B.F.A., M.F.A. (University of Tennessee at Knoxville)	<b>HAYES, B. GRANT</b> , Assistant Professor of Education (1999), B.A., M.Ed., Ed.S., Ph.D. (University of South Carolina)	<b>HIGGINBOTHAM, PATRICIA E.</b> , Associate Professor of Education (1972), B.S., M.S., Ed.D. (University of Alabama)	<b>HOLLAND, KATHIE K.</b> , Visiting Instructor of Management (2001), B.S., M.B.A. (University of Central Florida)
<b>HAGERSTROM, GLENN</b> , Instructor, School of Nursing (2001), M.S.N., A.R.N.P. (University of Central Florida)	<b>HARP, SCOTT S.</b> , Academic Coordinator of Clinical Education/Assistant Professor of Physical Therapy (2001), B.S., Ph.D., M.S., P.T. (Barry University)	<b>HAYNES, JOHN D.</b> , Visiting Professor of Management Information Systems (2001), B.A., M.A., Ph.D. (Bond University, Australia)	<b>HIGGINS, PATRICK</b> , Visiting Instructor of Mathematics (1999), B.S., M.S. (University of Central Florida)	<b>HOLMES, STEPHEN</b> , Assistant Professor of Criminal Justice (1997), B.S., M.A., A.B.D. (University of Cincinnati)
<b>HALL, SCOTT F.</b> , Assistant Professor of Art (2000), B.F.A., M.F.A. (Washington University, St. Louis, Missouri)	<b>HARPOLE, CHARLES H.</b> , Professor of Film (1990), Ph.D. (New York University)	<b>HAZELWOOD, PATRICIA</b> , Instructor (2004), MSN, AARP (University of Florida)	<b>HIGHTOWER, ROSS T.</b> , Assistant Professor of Management Information Systems (1999), B.S., M.S., Ph.D. (Georgia State University)	<b>HOLSENBECK, DANIEL C.</b> , Vice President for University Relations, Senior Counsel to the President, and Director of Governmental Relations (1985), B.S., M.E.D., Ph.D. (Florida State University)
<b>HALL, WILLIAM J.</b> , Associate Professor of Communication (1996), B.I.E., M.A., Ed.D. (University of Central Florida)	<b>HARRIS, CHRISTOPHER</b> , Assistant Professor of Film (2000), B.A., M.F.A. (The Art Institute of Chicago)	<b>HEINRICH, HELDGE H.</b> , Assistant Professor (2003), Ph.D. (Federal Institute of Technology)	<b>HINES, REBECCA</b> , Assistant Professor of Education (1999), Ph.D. (University of South Florida)	<b>HOLT, LARRY C.</b> , Associate Professor of Education (1988), B.S., Ed.D. (University of Cincinnati)
<b>HAM, CHAN</b> , Visiting Asst. Professor Ph.D. (University of Central Florida)	<b>HARRIS, ELIZABETH</b> , Instructor of Biology (2004), B.A., Ph.D. (Louisiana State University)	<b>HEINRICH, MARK</b> , Assistant Professor of Computer Science (2003), B.S., M.S., PhD (Stanford University)	<b>HINSHAW, CAROLE S.</b> , Head, Reference Services Department and University	<b>HOPKINS, MARTHA H.</b> , Professor of Education (1983), B.A., M.Ed., Ph.D. (Florida State University)
<b>HAMANN, KERSTIN</b> , Associate Professor of Political Science (1995), M.A., M.A., Ph.D. (Washington University, St.	<b>HARRIS, JUDY</b> , Assistant	<b>HELSINGER, JIM</b> , Artistic Director of Shakespeare Festival and Visiting Assistant Professor of Theatre		

- HORNİK, STEVEN**, Assistant Professor of Management Information Systems (2001), B.S., C.P.A., Ph.D. (Florida International University)
- HOSNI, DJEHANE**, Associate Professor of Economics (1977), B.A., M.A., Ph.D. (University of Arkansas)
- HOSNI, YASSER A.**, Professor of Engineering (1976), B.S.M.E., M.S., Ph.D. (University of Arkansas), P.E. (Florida)
- HOUGHTON, DAVID**, Assistant Professor (2003), B.A., M.A., Ph.D. (University of Pittsburgh)
- HOUSE, JESS**, Associate Professor of Education (2000), B.S., M.A., Ed.S., Ph.D. (University of Iowa)
- HOWARD, ROSALYN**, Assistant Professor of Anthropology (1999), B.A., M.Ed., Ph.D. (University of Florida)
- HOWATT, NICOLE**, Instructor of Marketing (2001), B.S., M.S. (University of Central Florida)
- HOYT, ERICA**, Instructor (2003), MSN (University of Phoenix)
- HUA, KIEN**, Associate Professor of Computer Science (1990), B.S., M.S., Ph.D. (University of Illinois)
- HUAIXIANG, TAN**, Associate Professor of Theatre (1997), B.A., M.F.A. (Utah State University)
- HUBBARD, SUSAN S.**, Associate Professor of English (1995), B.A., M.F.A. (Syracuse University)
- HUDDLESTON, THOMAS, JR.**, Vice President for Student Development and Enrollment Services (1993), B.S., M.S., Ed.D. (Oklahoma State University)
- HUDSON, LARRY R.**, Associate Professor of Education (1982), B.S., M.A., Ph.D. (University of Iowa)
- HUDSON, VINCENT J.**, Associate Professor of Athletic Training Curriculum and Instructor of Physical Therapy (1997), B.S., M.B.A., M.S.P.T. (Old Dominion University)
- HUFF-CORZINE, LIN**, Assistant Vice President, Academic Affairs, and Associate Professor of Sociology (1996), B.A., Ph.D. (Washington University)
- HUGHES, CHARLES E.**, Professor of Computer Science (1980), B.A., M.S., Ph.D. (Pennsylvania State University)
- HUGHES, NANCY**, Visiting Instructor of Education (1999), B.S., M.Ed. (University of Central Florida)
- HUSEMAN, RICHARD C.**, Professor of Management (1990), B.A., M.A., Ph.D. (University of Illinois)
- HUTCHINSON, CYNTHIA J.**, Associate Professor of Education (1989), B.S., M.A., Ed.D. (Florida Atlantic University)
- HYNES, MICHAEL C.**, Associate Dean and Professor of Education (1971), B.S.Ed., M.Ed., Ph.D. (Kent State University)
- IHDE, STEPHAN**, Instructor of Communication (2004), B.A., M.A. (University of Central Florida)
- ILEGBUSI, OLUSEGUN**, Professor of Engineering (2002), B.S., M.S., PhD (Imperial College, University of London)
- IM, KYUNG SO**, Assistant Professor of Economics (2002), B.A., M.A., Ph.D. (Michigan State University)
- INGLE, LORI**, Assistant Professor of Film (1987), A.A., B.F.A. (California Institute of the Arts)
- INGRAM, KATHERINE H.**, Associate Professor of Theatre (2001), B.S., M.F.A. (University of Alabama)
- ISMAIL, MOURAND**, Professor of Mathematics (2003), Ph.D. (University of Alberta, Canada)
- JACINTO, GEORGE**, Clinical Instructor and Graduate Coordinator, School of Social Work (1995), B.S., M.Ed., M.S.W. (Florida State University)
- JACOBS, DIANE, M.**, Interim Chair of Department of Health Professions and Professor of Molecular and Microbiology (1994), A.B., Ph.D., (Harvard University)
- JACQUES, PETER**, Assistant Professor (2003), B.A., M.P.A., Ph.D. (Northern Arizona University)
- JAEGER, HANS-MARTINO**, Assistant Professor (2004), B.A., M.Phil. (Columbia University)
- JAEGER, SUZANNE**, Assistant Professor of Humanities and Philosophy (2000), B.A., M.A., Ph.D. (York University)
- JANZ, BRUCE**, Associate Professor of Humanities and Philosophy (2003), B.R.E., B.A., M.A., Ph.D. (University of Waterloo)
- JASINSKI, JANA L.**, Associate Professor of Sociology (1999), B.A., M.A., Ph.D. (University of New Hampshire)
- JASKOWSKI, SELMA K.**, Head, Library Systems & Technology and University Librarian (1994), B.A., A.M.L.S. (University of Michigan)
- JEANPIERRE, BOBBY**, Assistant Professor of Education (2001), B.S., M.A., Ph.D. (University of Minnesota)
- JEFFERSON, ALLISON**, Director of Special Projects (1999), B.S., M.S. (Northwestern University)
- JENKINS, DAVID G.**, Associate Professor of Biology (2003), B.S., M.S., Ph.D. (Virginia Polytechnic Institute and State University)
- JENSEN, BERNARD**, Associate Professor of Psychology and Interim Assistant Vice President, and Director, Eastern Regional Campus (1985), B.S., M.A., Ph.D. (Southern Illinois University)
- JENTSCH, FLORIAN**, Associate Scientist and Director of Team Performance Laboratory (1997), B.S., M.S., Ph.D. (University of Central Florida)
- JENTSCH, KIMBERLY S.**, Assistant Professor of Psychology (2003), B.A., M.S., Ph.D. (University of South Florida)
- JEWETT, AUBREY**, Associate Professor of Political Science (1995), B.A., M.S., Ph.D. (Florida State University)
- JIANG, JAMES J.**, Professor of Management Information Systems (2001), M.B.A., M.S., Ph.D. (University of Cincinnati)
- JOELS, ROSIE WEBB**, Professor of Education (1978), B.A., M.Ed., Ph.D. (University of Arizona)
- JOHNSON, FRANCES L.**, Assistant Professor of Communication (1971), A.B., M.A. (University of Kentucky)
- JOHNSON, MARK E.**, Professor of Statistics (1990), B.A., M.S., Ph.D. (University of Iowa)
- JOHNSON, MARY C.**, Associate Professor of Film (1991), B.S., M.A., Ph.D. (Ohio State University)
- JOHNSON, MICHAEL**, Assistant Professor of Education (2002), B.A., M.S., Ph.D. (University of Illinois)
- JOHNSON, MICHAEL D.**, Assistant Dean, College of Arts & Sciences, Interim Chair of Department of Statistics and Actuarial Science, and Associate Professor of Physics (1990), B.S., Ph.D. (University of Virginia)
- JOHNSON, RICHARD D.**, Assistant Professor of Management Information Systems (1999), B.S., M.B.A. (University of Maryland)
- JOHNSON, ROGER W.**, Associate Professor of Engineering (1989), B.S., M.S., Ph.D. (University of California at Los Angeles), P.E. (Florida)
- JOHNSON, WALTER L.**, Associate Professor of Accounting (1979), B.S., M.B.A., Ph.D. (University of Texas at Austin)
- JONES, ANNA M.**, Assistant Professor of English (2002), B.A., Ph.D. (University of Notre Dame)
- JONES, DANIEL R.**, Professor of English (1984), B.A., M.A., Ph.D. (Florida State University)
- JONES, DAVID E.**, Associate Professor of Anthropology (1972), B.A., M.A., Ph.D. (University of Oklahoma)
- JONES, DONALD E.**, Assistant Professor of Philosophy (1972), B.A., M.A., Ph.D. (University of Oklahoma)
- JONES, FOARD F.**, Chair and Associate Professor of Management (1993), B.S., M.B.A., Ph.D. (University of Georgia)
- JONES, K. DAYLE**, Assistant Professor of Education (1997), B.S., B.A., M.S., Ph.D. (University of South Carolina)
- JONES, LESLIE**, Visiting Assistant Professor of Education (2001), B.A., M.Ed., Ph.D. (University of North Texas)
- JONES, LINWOOD W.**, Professor of Engineering (1997), Ph.D. (Virginia Polytechnic Institute)
- JONES, ROBERT S.**, Associate Professor of Film (1991), A.B., M.S., M.F.A. (University of California)
- JORDON, ARETI**, Instructor of Marketing (1998), B.S., M.B.A. (University of Central Florida)
- JUDD, ANDREW J.**, Director, School of Accounting and Associate Professor of Accounting (1987), B.A.B.A., M.B.A., Ph.D. (University of Florida)
- JUDGE, CAROL LYNN**, Lt. Colonel, USAF, Professor of Aerospace Studies (1999), B.S., M.S. (St. Mary's University)
- JUNGBLUT, BERNADETTE M.**, Assistant Professor (2002), B.A., M.A., Ph.D. (Rice University)
- JURIE, JAY D.**, Associate Professor of Public Administration (1986), B.A., M.U.A., M.E.P., Ph.D., (Arizona State University)
- KALITA, SAMAR**, Assistant Professor of Engineering (2003), B.S., M.S., Ph.D. (Washington State)
- KALLINA, EDMUND F., JR.**, Chair and Professor of History (1970), B.A., M.A., Ph.D. (Northwestern University)
- KAMRATH, MARK L.**, Associate Professor of English (1997), B.S., M.A., Ph.D. (University of Nebraska, Lincoln)
- KAPAT, JAYANTA S.**, Associate Professor of Engineering (1997), B. Tech. (Hons), M.S., Sc.D. (Massachusetts Institute of Technology)
- KAPLAN, JEFFREY S.**, Assistant Professor of Education (1992), B.A., M.A., Ph.D. (University of Florida)
- KAPLAN, SUSAN**, Visiting Instructor of Communication (2004), B.A., M.A. (University of Central Florida)
- KAPUCU, NAIM**, Assistant Professor (2003), BS MS, MA, Ph. D., (University of Pittsburgh, PA)
- KAR, ARAVINDA**, Associate Professor of Engineering (1994), B.S., M.S., Ph.D. (University of Illinois)
- KASPARIS, TAKIS**, Associate Professor of Engineering (1989), B.E.E., M.E.E., Ph.D. (City College University of New York)
- KASSAB, ALAIN J.**, Professor of Engineering and Mathematics (1991), B.S.E.S., M.S., Ph.D. (University of Florida)
- KASSIM, HUSAIN**, Associate Professor of Philosophy and Religion (1970), B.A., M.A., I.L.L.B., Ph.D. (University of Bonn)

# UCF Faculty and Staff

<b>KATSEVICH, ALEXANDER</b> , Assistant Professor of Mathematics (1996), B.S., M.S., Ph.D. (Kansas State University)	<b>BETH</b> , Associate University Librarian (2000), B.S., M.L.S. (University of North Texas)	Professor of Engineering (2001), B.S., M.S., PhD (Duke University)	(Arizona State University)	<b>LANIER, MARK M.</b> , Associate Professor of Criminal Justice (1993), B.S., M.S., Ph.D. (Michigan State University)
<b>KATT, JAMES</b> , Assistant Professor of Communication (2003), B.S., B.A., M.A., Ph.D. (University of Central Florida)	<b>KILMAN, MARCUS D.</b> , Assistant Librarian (1996), B. S., M.S.L.I.S. (University of Texas)	<b>KOGER, PHILIP C.</b> , Visiting Assistant Professor of Education (1999), B.A., M.A.T., Ed.S., Ed.D. (University of South Carolina)	<b>KUHN, DEANNA M.</b> , Visiting Instructor, School of Nursing (2002), M.S.N., A.R.N.P. (University of Central Florida)	<b>LAPCHICK, RICHARD E.</b> , Professor and Director of Sports Business Management (2001), B.S., M.S., Ph.D. (University of Denver)
<b>KAZOROSKI, RONALD W.</b> , Instructor of Education (1994), B.A., M.S. (Florida State University)	<b>KILMER, LISA</b> , Assistant Professor of Art (2002), B.S., M.S. (Purdue University)	<b>KOHN, ROBIN M.</b> , Clinical Instructor and UG B.S.W. Coordinator, School of Social Work (2000), B.A., B.S.W., M.S.W., L.C.S.W., (Florida State University)	<b>KUJAWA, FRANK B.</b> , Associate Professor of Geology (1969), B.A., Ph.D. (Johns Hopkins University)	<b>LARTONOIX, PAUL F.</b> , Associate Professor of Theatre and Executive Director Orlando Repertory Theatre (1998), B.A., M.F.A. (Lindenwood University)
<b>KELLIHER, CHARLES F.</b> , Associate Professor of Accounting (1985), B.S., M.S., Ph.D. (Texas A&M University)	<b>KIM, JOO</b> , Assistant Professor of Art (1999), B.A., Ph.D. (University of Minnesota)	<b>KOKOULINE, VIATCHESLAV</b> , Assistant Professor (2003), Ph.D. (Universite' de Paris)	<b>KULONDA, DENNIS J.</b> , Associate Professor of Engineering (1998), B.I.E., M.S.I.E., Ph.D. (North Carolina State University), P.E. (North Carolina)	<b>LAVOOY, MARIA</b> , Associate Professor of Psychology (1995), B.S., M.A., Ph.D. (Miami University)
<b>KENNERLEY, MARGARET ANN</b> , Instructor of Psychology (2001), Ph.D. (University of South Carolina)	<b>KING, ALLISON O.</b> , Assistant University Librarian, Brevard Campus (1999), B.A., M.L.S. (University of Maryland)	<b>KOLATTUKUDY, P.E.</b> , Chair of Molecular Biology and Microbiology/Director of Biomolecular Science Center (2002), B.S., M.S., Ph.D., (Oregon State University)	<b>KUMAR, RANGANATHAN</b> , Chair, MMAE and Professor of Engineering (2003), B.S., M.S., PhD (University of Illinois at Urbana-Champaign)	<b>LAWRENCE, SAM</b> , Assistant Professor of Communication (1999), B.A., M.A., Ph.D. (University of Texas)
<b>KENNERLEY, ROBERT J.</b> , Instructor of Psychology (2001), Ph.D. (University of South Carolina)	<b>KINSEY, BARBARA</b> , Assistant Professor (2002), B.A., Ph.D. (Washington University)	<b>KONZAK, ELIZABETH V.</b> , Instructor Librarian (2004), B.A., M.S. (University of Michigan)	<b>KUNNATH, SASHI K.</b> , Associate Professor of Engineering (1991), B.E., M.E., Ph.D. (State University of New York at Buffalo), P.E. (Florida)	<b>LAWTHER, WENDELL C.</b> , Associate Professor of Public Administration (1984), B.A., M.A., Ph.D. (Indiana University)
<b>KENNEY, RICHARD</b> , Assistant Professor of Communication (2004), B.A., M.A., Ph.D. (University of Georgia)	<b>KIRBY, PAMELA</b> , Assistant Dean and Instructor of Legal Studies (2000), B.A., M.A., J.D. (University of Virginia)	<b>KOONS, KEITH</b> , Professor of Music (1990), B.M., M.M., D.M.A. (University of Southern California)	<b>KUO, SHIOU-SAN</b> , Professor of Engineering (1981), B.S., M.S., Ph.D. (Michigan State University), P.E. (Florida, Michigan)	<b>LEBRUTO, STEPHEN M.</b> , Associate Dean Rosen School of Hospitality Management, HFTP Professor of Hospitality Financial Management and Technology, and Associate Professor of Hospitality Management (1990), B.S., M.S., Ed.D. (University of Central Florida)
<b>KENT-WALSH, JENNIFER</b> , Assistant Professor (2003), Ph. D. in Speech-Language Pathology (Penn State University)	<b>KIRKPATRICK, LEE ANNE</b> , Director, Office of Academic Support and Information Services (1982), B.A., M.S. (University of Central Florida)	<b>KOROSY, ALICE A.</b> , Instructor of Modern languages and Literatures (1996), B.A., M.A. (Florida State University)	<b>KYSILKA, MARCELLA L.</b> , Professor of Education of Education (1969), B.S.Ed., M.Ed., Ph.D. (University of Texas)	<b>LECKIE, SHIRLEY A.</b> , Professor of History (1985), B.A., M.A., Ph.D. (University of Toledo)
<b>KEON, THOMAS L.</b> , Dean, College of Business Administration and Professor of Management (1997), B.S.A., M.B.A., Ph.D. (Michigan State University)	<b>KISBY, CYNTHIA M.</b> , Personnel Librarian and Associate University Librarian (1996), B.A., M.A.L.S. (Dominican University)	<b>KOROSY, ALICE A.</b> , Instructor of Modern languages and Literatures (1996), B.A., M.A. (Florida State University)	<b>LADORES, SIGRID</b> , Visiting Instructor (2004), RN, MSN (University of Pennsylvania)	<b>LEE, GENE C. H.</b> , Associate Professor of Engineering (1985), B.E., M.S., M.S.I.E., Ph.D. (Texas Tech University), P.E. (Texas, Florida)
<b>KESLER, THOMAS R.</b> , Instructor of English (1997), B.A., M.A. (University of Central Florida)	<b>KITALONG, KARLA M.</b> , Assistant Professor of English (1999), B.A., M.S., Ph.D. (Michigan Tech University)	<b>KOTNOUR, TIMOTHY G.</b> , Assistant Professor of Engineering (1995), B.S., M.S., Ph.D. (Virginia Polytechnic Institute and State University), EI (Illinois)	<b>LAFFERTY, PATRICIA</b> , Advisor/Instructor, School of Nursing (1995), RN, MSN. (University of Central Florida)	<b>LEE, JOOHAN</b> , Assistant Professor of Computer Science (2002), B.S., M.S., PhD (Syracuse University)
<b>KESSEL, ERNESTINE</b> , Visiting Coordinator (2000), B.A., M.A., Ed.D. (Nova Southeastern University)	<b>KLEE, HAROLD I.</b> , Associate Professor of Engineering (1972), B.S., M.S., Ph.D. (Polytechnic Institute of Brooklyn), P.E. (Florida)	<b>KRAUT, MELISSA</b> , Assistant Professor of Music (1999), M.M., M.A., D.M. (Northwestern University)	<b>LAMAZARES, IVONNE</b> , Associate Professor of English (2001), B.A., M.S., Ed.D. (University of Miami, FL)	<b>LEE, JUDY R.</b> , Assistant Professor of Education (1993), B.A., M.L.S., M.M.A., Ph.D. (University of Arizona)
<b>KHALED, ANNETTE</b> , Assistant Professor of Molecular Biology and Microbiology (2002), B.S., M.S., Ph.D., (University of Florida)	<b>KLEIN, COLLEEN</b> , Visiting Assistant Professor of Education (1997), Ph.D. (University of Southern Mississippi)	<b>KREBS, ROSEMARIE</b> , Assistant Professor of Hospitality Management (2002), B.A., J.D. (University of California Los Angeles)	<b>LANG, SHEAU-DONG</b> , Associate Professor of Computer Science (1981), B.S., M.S., Ph.D. (Pennsylvania State University)	<b>LEE, JUNSOO</b> , Associate Professor of Economics (1998), B.A., M.B.A., Ph.D. (Michigan State University, Lansing)
<b>KIEHL, ERMALYNN</b> , Associate Professor of Nursing (1994), M.S.N., Ph.D. (University of Florida)	<b>KLEIN, MARY</b> , Visiting Instructor of Communication (2004), B.A., M.A. (Northern Illinois University)	<b>KRISE, THOMAS</b> , Chair and Professor of English (2005), B.S., M.S., M.S.A., Ph.D. (University of Chicago)	<b>LANGE, BARBARA</b> , Visiting Instructor, School of Nursing (2002), R.N., M.S.N., (Bellarmine University)	<b>LEESON, JOHN J.</b> , Associate Professor of Computer Science (1982), B.A., M.S., Ph.D. (University of Miami)
<b>KIEL, DWIGHT</b> , Associate Professor of Political Science (1990), B.A., M.A., Ph.D. (University of Massachusetts)	<b>KLEMENZ, CRISTINE</b> , Assistant Professor Ph.D. (University of Tokyo)	<b>KUEBLER, STEPHEN</b> , Assistant Professor of Chemistry (2003), B.S., Ph.D. (University of Oxford)	<b>LANHAM, DOREEN</b> , Research Associate (2000), B.S., M.S. (University of Central Florida)	<b>LEIGH, WILLIAM E., JR.</b> , Professor of Management Information Systems (1987), B.S., M.S., M.B.A., Ph.D. (University of Cincinnati)
<b>KIJEK, JEAN C.</b> , Director, Florida-Eastern European Linkage Institute and Florida-Canada Linkage Institute; Coordinator of the Graduate Program in Nursing; and Associate Professor of Nursing (1985), R.N., Ph.D. (New York University)	<b>KLINTWORTH, NANCY P.</b> , Instructor of Business Law (1985), B.A., M.A., J.D., L.L.M. (University of Florida)	<b>KUHN, DAVID T.</b> , Chair and Professor of Biology (1970), B.A., M.S., Ph.D.	<b>LANIER, DREW N.</b> , Associate Professor of Political Science (1997), B.A., J.D., Ph.D. (University of North Texas)	
<b>KILLINGSWORTH, ELIZA</b>	<b>KOCKAK, TASKIN</b> , Assistant			

<b>LELI, PATRICIA</b> , Undergraduate Coordinator and Instructor of Nursing (1979), R.N., M.S.N. (University of Alabama at Birmingham)	Assistant Professor of Theatre (1999), M.A., Ph.D. (University of Michigan)	<b>LYTLE, J. STEPHEN</b> , Associate Professor of Health Services Administration (1975), RRT, B.S., M.S., M.P.H. (University of Central Florida)	Assistant Professor of Sociology (2000), B.A., M.A., Ph.D. (University of Tennessee)	(2003), Masters in Health Sciences (University of Central Florida)
<b>LEON, ANA M.</b> , Associate Professor of Social Work (1994), B.A., M.S.W., Ph.D. (New York University)	<b>LITTLE, MARY</b> , Assistant Professor of Education (1996), Ph.D. (University of Kansas)	<b>MACKLEM, MARY SUE</b> , Assistant Professor of Music (2002), Ph.D. (University of Pennsylvania)	<b>MARTIN, FRANCIS JR.</b> , Lecturer (2003), B.A., M.F.A. (Louisiana State University)	<b>McFALL, DEAN</b> , Associate Vice President for University Relations and Director of News and Information, University Relations (1985), B.A. (Allegheny College)
<b>LEONESSA, ALEXANDER</b> , Assistant Professor (2003), B.S., M.S., Ph.D. (George Tech.)	<b>LLEWELLYN, MARK J.</b> , Lecturer of Computer Science (1998), B.S., B.A., Ph.D. (University of Central Florida)	<b>MAGANN, DOUGLAS</b> , Associate Professor of Education (1999), B.A., M.Ed., Ed.D. (University of Virginia)	<b>MARTIN, HEATH M.</b> , Assistant Professor of Mathematics (1995), B.S., Ph.D. (Louisiana State University)	<b>McGUIRE, JOHN M.</b> , Associate Dean, College of Arts and Sciences and Professor of Psychology (1972), B.A., M.A., Ph.D. (George Peabody College)
<b>LETICEE, MARIE</b> , Assistant Professor of Modern languages and Literatures (1994), B.A., M.A., Ed.D. (University of Central Florida)	<b>LLEWELLYN, RALPH A.</b> , Professor of Physics (1980), B.S., Ph.D. (Purdue University)	<b>MAHAN, CHERYL A.</b> , University Librarian (1977), B.A., M.L.S. (Florida State University)	<b>MARTIN, MICHAEL JASON</b> , Instructor Librarian (2003), B.A., M.A.L.I.S. (University of South Florida)	<b>McHONE, W. WARREN</b> , Professor of Economics (1982), B.S., M.A., Ph.D. (University of Pennsylvania)
<b>LI, XIN</b> , Associate Professor of Mathematics (1990), B.A., M.A., Ph.D. (University of South Florida)	<b>LOERZEL, VICTORIA W.</b> , Visiting Instructor, School of Nursing (2002), R.N., O.C.N., M.S.N., (Case Western Reserve University, Frances Payne Bolton School of Nursing)	<b>MAHAN, SUE G.</b> , Associate Professor of Criminal Justice (1987), Ph.D. (University of Missouri)	<b>MARTIN, SUZANNE</b> , Assistant Dean of Accreditation and Administration and Professor of Education (2000), B.S., M.Ed., Ed.D. (University of Florida)	<b>McNAMARA HILMER, KELLY</b> , Assistant Professor of Management Information Systems (2001), B.A., M.A.M.S., Ph.D. (University of Georgia)
<b>LI KAM WA, PATRICK</b> , Assistant Professor of Engineering (1993), B.E., Ph.D. (University of Sheffield)	<b>LOGAN, LISA</b> , Associate Professor of English (1996), B.A., M.A., Ph.D. (University of Rochester)	<b>MAHONEY, LOIS S.</b> , Assistant Professor of Accounting (1997), B.A., M.B.A., Ph.D. (University of Central Florida)	<b>MARTIN, THOMAS L.</b> , Associate Professor of Economics (1983), B.A., B.S., Ph.D. (Rice University)	<b>McQUILKIN, PAUL R.</b> , Associate Dean, Student Development and Enrollment Services (1971), B.S., M.B.A., Ph.D. (Iowa State University)
<b>LIBERMAN, AARON</b> , Chair and Associate Professor of Health Services Administration (1996), B.A., M.S., M.A., Ph.D. (University of Iowa)	<b>LOGIUDICE, FRANCIS T.</b> , Instructor of Biology (1997), B.S., M.S. (University of Central Florida)	<b>MAIDEN, PAUL</b> , Associate Professor, School of Social Work (1999), B.S.W., M.S.W., Ph.D. (University of Maryland)	<b>MASON, BETTE</b> , Visiting Instructor of Modern languages and Literatures (2003), B.A., M.A. (Florida State University)	<b>MEALOR, DAVID</b> , Assistant Vice President and Central Region Director (1980), B.S., Ph.D. (University of Georgia)
<b>LIEBERMAN, LESLIE</b> , Professor of Anthropology (2001), B.A., M.A., Ph.D. (University of Connecticut)	<b>LOPEZ, GENARO</b> , Professor (2004), Ph. D. (Colorado State University)	<b>MAJOR, ANTHONY</b> , Associate Chair of Film (1973), B.A., M.F.A. (New York University)	<b>MASSEY, CLAIRE</b> , Field Coordinator, School of Social Work (1999), B.A., M.S.W. (Tulane University)	<b>MEEHAN, KEVIN</b> , Associate Professor of English (1996), B.A., M.A., Ph.D. (University of Maryland)
<b>LIEBERMAN, R. JANE</b> , Chair and Professor of Communicative Disorders (2000), B.S., M.S., Ph.D. (University of Florida)	<b>LOPEZ, HUMBERTO J.</b> , Associate Professor of Modern languages and Literatures (1996), B.A., M.A., Ph.D. (Florida State University)	<b>MALALA, JOHN</b> , Assistant Professor of Communication (2001), B.A., M.A., Ed.S. (Florida Institute of Technology)	<b>MATTHEWS, FERN</b> , Assistant in Theatre (1971), M.S. (Hofstra University)	<b>MEESKE, MIKE D.</b> , Professor of Communication (1970), B.S., M.A. (University of Denver)
<b>LILLIOS, ANNA</b> , Associate Professor of English (1986), B.A., M.A., Ph.D. (University of Iowa)	<b>LOUDERMILK, JENNIE L.</b> , Instructor of Education (1977), B.A., M.A., Ed.D. (University of Georgia)	<b>MALOCHA, DONALD C.</b> , Professor of Engineering (1981), B.S., M.S., Ph.D. (University of Illinois), P.E. (Florida)	<b>MAUER, BARRY J.</b> , Assistant Professor of English (1999), B.A., M.A. (University of Florida)	<b>MELITA, MICHAEELEN</b> , Visiting Assistant Professor of Theatre (2004), M.F.A. (Syracuse University)
<b>LIN, KUO-CHI</b> , Associate Professor of Engineering (1990), B.S., M.S., Ph.D. (University of Michigan), P.E. (Florida)	<b>LUCKEN, KAROL M.</b> , Associate Professor of Criminal Justice (1994), B.A., M.S., Ph.D. (Florida State University)	<b>MALONE, LINDA C.</b> , Professor of Engineering Science (1979), B.S., M.S., Ph.D. (Virginia Polytechnic Institute and State University)	<b>MAUNEZ-CUADRA, JOSE</b> , Associate Professor of Communication (1989), B.A., M.S. (Bowling Green State University)	<b>MENDELSON, HAROLD D.</b> , Assistant University Librarian (2001), B.S., M.A., M.L.S. (San Jose State University)
<b>LIN, KURT</b> , Associate Professor	<b>LUCKETT, JUDITH A.</b> , Visiting Instructor of Education (1997), B.A., M.Ed., Ed.D. (University of Central Florida)	<b>MALVEY, DONNA</b> , Visiting Assistant Professor of HSA (2004), PhD (University of Alabama-Birmingham)	<b>MAYER, BETTY</b> , Visiting Assistant Professor, School of Nursing (2002), A.R.N.P., M.S.N., Ph.D., (University of South Florida)	<b>MENDENHALL, THOMAS S.</b> , Associate Professor of Health Services Administration (1976), B.A., MT (ASCP), M.S., M.B.A., Ph.D. (University of Missouri)
<b>LIQUORI, MICHAEL</b> , Captain, USAF, and Assistant Professor of Aerospace Studies (2000), B.A., M.A. (University of Oklahoma)	<b>LUDY, JEFFERY E.</b> , Assistant Professor and Director of Clinical Education in Cardiopulmonary Sciences (1995), R.R.T., A.B., M.Ed., Ed.D. (University of Central Florida)	<b>MANNING, JOHN</b> , Assistant Professor of Education (2000), B.S. Ed., M.Ed., Ed.D. (University of Massachusetts Amherst)	<b>McCAIN, JOAN</b> , Visiting Instructor of Communication (2004), B.A., M.A. (University of Central Florida)	<b>MERCK, II, WILLIAM F.</b> , Vice
<b>LIU, KUOTSAI TOM</b> , Chair and Professor of Public Administration (1996), B.A., M.P.A., D.P.A. (University of Oklahoma)	<b>LUE, MARTHA</b> , Professor of Education (1989), B.A., M.A., Ed.S., Ph.D. (University of Florida)	<b>MARINARA, MARTHA</b> , Associate Professor of English (1998), B.A., M.A., Ph.D. (Lehigh University)	<b>McCAULEY-BELL, PAMELA R.</b> , Associate Professor of Engineering (1993), B.S., M.S., Ph.D. (University of Oklahoma)	
<b>LIQUORI, MICHAEL</b> , Captain, USAF, and Assistant Professor of Aerospace Studies (2000), B.A., M.A. (University of Oklahoma)	<b>LUIGI, FERRI</b> , Assistant Professor, Italian, Modern languages and Literatures (2003), Ph.D. (University of Wisconsin, Madison)	<b>MARINESCU, DAN</b> , Professor of Computer Science (2001), B.S., M.S., PhD (Polytechnic Inst. Bucharest)	<b>McDONALD, HOLLY</b> , Visiting Assisting Professor (1995), B.F.A., M.F.A. (University of Alabama)	
<b>LISETTI, CHRISTEN</b> , Research Professor of Computer Science (2001), B.S., M.S., PhD (Florida International University)	<b>LYNXWILER, JOHN P.</b> , Associate Professor of Sociology (1989), B.A., M.A., Ph.D. (University of Tennessee)	<b>MAROSI, LASZLO</b> , Assistant Professor of Music (2003), Ph.D. (Florida State University)	<b>McDONOUGH, MELANIE</b> , Clinical Coordinator/Visiting Instructor of Cardiopulmonary Sciences	
<b>LISTENGARTEN, JULIA</b>		<b>MARSHALL, BRENT K.</b>		

# UCF Faculty and Staff

President for Administration and Finance (1996), B.B.A., M.B.A. (Georgia State University)	(1989), B.A., M.A. Ed.D. (University of Central Florida)	Instructor of Communication (1999), B.S., M.A. (University of Tennessee)	(2004), Ph. D., Molecular Virology (University of British Columbia)	Professor of Engineering (1990), B.S., M.S., Ph.D. (Virginia Polytech Institute and State University)
<b>MICHAELS, RONALD E.</b> , Chair and Professor of Marketing (1994), B.S., M.B.A., Ph.D. (Indiana University)	<b>MODANI, NAVAL K.</b> , Associate Professor of Finance (1983), B.S., M.B.A., Ph.D. (University of South Carolina)	<b>MORRIS, JOAN</b> , Associate Professor of Sociology (1993), B.A., M.A., Ph.D. (Louisiana State University)	<b>MULLIN, THOMAS A.</b> , Associate Professor of Communicative Disorders (1972), B.A., M.S., Ph.D. (Syracuse University)	<b>NEEL, STEVEN</b> , Visiting Instructor of Communication (2003), B.A., M.A. (University of Central Florida)
<b>MIKHAEL, WASFY B.</b> , Professor of Electrical Engineering (1988), B.S.E.E., M.S.E.E., Ph.D. (Concordia University)	<b>MOHAPATRA, RAM N.</b> , Professor of Mathematics (1984), B.S., M.S., Ph.D. (University of Jabalpur)	<b>MORRISON, JOHN</b> , Visiting Instructor of Communication (2004), B.A., M.A., Ph.D. (University of Central Florida)	<b>MUMFORD, VINCENT</b> , Visiting Assistant Professor of Education (2000), Ed.D. (University of Delaware)	<b>NEGY, ALMA</b> , Assistant Professor of Modern languages and Literatures (2002), B.A., M.A., Ph.D. (University of Houston)
<b>MIKHAL, OSSAMA</b> , Assistant Professor of Economics (2001), B.Sc., M.Sc., Ph.D. (McGill University)	<b>MOHARAM, GAMAL</b> , Professor of Electrical Engineering Science (1987), B.S., Ph.D. (University of British Columbia)	<b>MORRISON-SHETLAR, ALI-SON</b> , Professor of Biology (2002), B.S., Ph.D. (Dundee College of Technology, Scotland)	<b>MUNDALE, JENNIFER</b> , Assistant Professor of Philosophy (1999), B.A., A.M., Ph.D. (Washington University)	<b>NEGY, CHARLES</b> , Associate Professor of Psychology (1998), B.A., M.S., Ph.D. (Texas A&M University)
<b>MIKUSINSKI, PIOTR</b> , Professor of Mathematics (1985), M.S., Ph.D. (Polish Academy of Sciences, Institute of Mathematics)	<b>MOHRENNE, ROBERT W.</b> , Instructor of English (2004), B.A., M.A. (University of Central Florida)	<b>MORSE, LUCY C.</b> , Associate Professor of Engineering Technology and Director of Engineering Technology at a Distance (1983), A.B., M.S., Ph.D. (University of Central Florida)	<b>MURPHY, KEVIN MAJ</b> , Assistant Professor of Military Science B.S. (Florida Institute of Technology)	<b>NEIGHBOR, J. EDWARD</b> , Vice Provost, Academic Administrative Systems, and Professor of Physics (1987), B.S., M.S., Ph.D. (Massachusetts Institute of Technology)
<b>MILANES, CECILIA RODRIGUEZ</b> , Associate Professor of English	<b>MOLLAGHASEMI, MAN-SOOREH</b> , Associate Professor of Engineering (1991), B.S., M.E., Ph.D. (University of Louisville)	<b>MORTON, WILLIAM C.</b> , Instructor of English (2002), B.A., M.A. (Miami University)	<b>MURPHY, PATRICK</b> , Professor of English (2002), B.A., M.A., Ph.D. (University of California, Davis)	<b>NEUBAUM, DONALD</b> , Assistant Professor of Management (1998), B.S., M.B.A., Ph.D. (Georgia State University)
<b>MILES, D. HOWARD</b> , Professor of Chemistry (1988), B.S., Ph.D. (Georgia Institute of Technology)	<b>MONROE, JUDITH E.</b> , Associate Director, Administration and Finance, and Academic Counselor, Liberal Studies (1978), B.S., M.A. (University of Central Florida)	<b>MOSHELL, J. MICHAEL</b> , Professor of Computer Science (1984), B.S., Ph.D. (Ohio State University)	<b>MURRAY, BARBARA A.</b> , Associate Professor of Education (1992), B.S., M.A.E., Ed.S., Ph.D. (Indiana State University)	<b>NEUBAUM, SANDRA D.</b> , Visiting Instructor of Management (2001), B.S., M.S. (Georgia State University)
<b>MILLER, A. JEANNE</b> , Associate Professor of Education (1974), B.A., M.A., Ed.D. (Nova University)	<b>MONTAGUE, EUGENE</b> , Assistant Professor of Music (2002), Ph.D. (University of Pennsylvania)	<b>MOSLEHY, FAISSAL A.</b> , Professor of Engineering (1980), B.S., M.S., Ph.D. (University of South Carolina), P.E. (Florida)	<b>MURRAY, KENNETH T.</b> , Associate Professor of Education (1991), B.S., M.S., J.D., Ph.D. (Indiana State University)	<b>NEVILLE, JAMES</b> , Visiting Instructor of Education (1999), B.S. Ed., M.Ed. (Rollins College)
<b>MILLER, KEVIN</b> , Assistant Professor of Education (1999), B.A., M.Ed., Ed.D. (West Virginia University)	<b>MONTALVO, MARIA</b> , Instructor of Modern languages and Literatures (2002), M.A., M.A. (University of Central Florida)	<b>MOTLAGH, BAHMAN S.</b> , Associate Professor of Engineering Technology (1996), B.S., M.S., Ph.D. (University of Central Florida)	<b>MUSLIMANI, ZIAD</b> , Assistant Professor of Mathematics (2003), Ph.D. (Technion-Israel Institute of Technology)	<b>NEWBY, MARK A., CPT.</b> , Assistant Professor of Military Science B.S. (Embry-Riddle Aeronautical University)
<b>MILLS, JOE</b> , Visiting Instructor of Education (1999), A.A., A.B., M.Ed. (Rollins College)	<b>MONTGOMERY, KIMBERLY K.</b> , Assistant University Librarian (1988), B.A., M.S. (Florida State University)	<b>MOTTARELLA, KAREN</b> , Instructor of Psychology (1998), B.A., M.S., Psy. D. (Florida Institute of Technology)	<b>MUSTAINE, ELIZABETH</b> , Associate Professor of Sociology (1994), B.A., M.A., Ph.D. (Ohio State University)	<b>NEWLIN, MICHAEL</b> , Associate Professor of Psychology (1995), B.S., M.S. (Purdue University)
<b>MILLS, LISA</b> , Instructor of Communication (2000), B.A., M.A. (University of Central Florida)	<b>MONTGOMERY, RENEE</b> , Assistant University Librarian (2003), B.S., M.S. (Florida State University)	<b>MOULOQA, MUSTAPHA</b> , Associate Professor of Psychology (1994), M.A., Ph.D. (Catholic University of America)	<b>MYERS, STEPHANIE M.</b> , Visiting Assistant Professor of Criminal Justice (2001), B.A., M.A. (SUNY at Albany)	<b>NI, LIQIANG</b> , Assistant Professor (2003), B.Sc., Ph.D. (University of Minnesota)
<b>MILMAN, ADY</b> , Professor of Hospitality Management (1986), B.A., M.S., Ph.D. (University of Massachusetts)	<b>MOORE, BARBARA A.</b> , Instructor of Economics (2000), B.S., M.A.A.E. (University of Central Florida)	<b>MUCCIOLO, EDUARDO</b> , Associate Professor (2003), Ph.D. (Massachusetts Institute of Technology)	<b>NADEAU, JEANETTE A.</b> , Assistant Professor of Biology (2003), B.A., Ph.D. (University of California, Davis)	<b>NICHOLSON, DAVID W.</b> , Professor of Engineering and Mathematics (1990), B.S., M.S., M.Phil., Ph.D. (Yale University)
<b>MILON, ABBY</b> , Visiting Assistant Professor of Legal Studies (2000), B.S., M.S., J.D. (University of Florida)	<b>MOORE, JEFFREY</b> , Associate Professor of Music (1994), B.M.E., M.M. (University of Wisconsin)	<b>MUKHERJEE, AMAR</b> , Professor of Computer Science (1979), B.S., M.S., Ph.D. (University of Calcutta)	<b>NALBONE, LISA J.</b> , Instructor of Modern languages and Literatures (1996), B.A., M.S. (Georgetown University)	<b>NICKERSON, DAVID</b> , Associate Professor and Interim Chair of Statistics (1990), B.S., M.S., Ph.D. (University of Florida)
<b>MILON, J. WALTER</b> , Professor of Economics (2000), B.S., M.S., Ph.D. (Florida State University)	<b>MORALES, WALTRAUD Q.</b> , Professor of Political Science (1980), B.A., M.A., Ph.D. (University of Denver)	<b>MULLENS, MICHAEL A.</b> , Associate Professor of Engineering (1989), B.S., M.S., Ph.D. (Georgia Tech)	<b>NASER, SALEH A.</b> , Associate Professor of Molecular Biology and Microbiology (1995), B.S.C., M.S., Ph.D. (New Mexico State University)	<b>NIESS, CHRISTOPHER</b> , Assistant Professor of Theatre (2001), B.A., M.F.A. (New York University)
<b>MINARDI, ANTONIO</b> , Associate Professor of Engineering (1977), B.A.Sc., S.M., Ph.D. (University of Central Florida)	<b>MORGAN, BEN B., JR.</b> , Associate Dean, Graduate Studies, and Professor of Psychology (1988), B.A., M.A., Ph.D. (University of Louisville)	<b>MULLER, CHRISTOPHER</b> , Interim Director Center for Multi-Unit Restaurant Management and Associate Professor of Hospitality Management (1999), B.A., M.P.S., Ph.D. (Cornell University)	<b>NASHED, ZUHAIR</b> , Chair and Professor of Mathematics (2002), B.S., M.S., Ph.D. (University of Michigan)	<b>NNADI, FIDELIA N.</b> , Associate Professor of Engineering (1994), B.Eng., Ph.D. (Queen's University-Ontario, Canada), P.E. (Canada, Florida)
<b>MISCONI, NEBIL Y.</b> , Professor of Engineering Technology (1995), B.S., M.S., Ph.D. (State University of New York)	<b>MORGAN, THOMAS O.</b> , Lecturer of Communication (2002), A.B., M.A., Ph.D. (Florida State University)	<b>MULLER, MARK</b> , Professor	<b>NAYFEH, JAMAL</b> , Assistant Dean of Engineering and Computer Science and	<b>NOBLIN, ALICE</b> , Visiting Instructor of HIM
<b>MITCHELL, DEBBY L.</b> , Associate Professor of Education	<b>MOROUX, DANIELLE</b> ,			

- (2004), MBA (Georgia State University)
- NOSS, REED F.**, Provost Distinguished Research Professor and Professor of Biology  
(2002), B.S., M.S., Ph.D. (University of Florida)
- NYE, CHAD**, Professor of Communicative Disorders  
(1996), B.A., M.S., Ph.D. (University of California)
- O'HARA, JOHN B.**, Instructor of Communication  
(1979), B.A., M.A. (University of Oklahoma)
- ODISHO, EDWIN**, Instructor of Management Information Systems  
(1990), B.B.A., M.S. (Florida State University)
- OETJEN, DAWN M.**, Graduate Coordinator and Assistant Professor of Health Services Administration  
(1999), B.S., R.R.A., C.P.H.Q., M.S., Ph.D. (University of Alabama at Birmingham)
- OLIVER, KATHLEEN M.**, Assistant Professor of English  
(2003), B.A., M.A., Ph.D. (University of South Florida)
- OLOUFA, AMR A.**, Associate Professor of Engineering  
(1999), B.S., M.S., Ph.D. (University of California, Berkeley), P.E. (California)
- ONYEMELUKWE, OKEY**, Associate Professor of Engineering  
(1993), B.S., M.S., Ph.D. (University of Pittsburgh), P.E. (Florida)
- OROJJI, ALI**, Associate Professor of Computer Science  
(1985), B.S., M.S., Ph.D. (Ohio State University)
- ORTIZ, S. ENRIQUE**, Associate Professor of Education  
(1989), B.A., M.A., Ed.D. (Louisiana State University)
- ORWIG, GARY W.**, Professor of Education  
(1977), B.S., M.S., Ed.D. (Indiana University)
- OSBORNE, JOHN A.**, Professor of Biology  
(1972), B.S., M.S., Ph.D. (Kansas State University)
- OSBORNE, KING W.**, Professor of Engineering Technology  
(1983), B.S.E., M.S.E.E., Ed.D. (Florida Atlantic University), P.E. (Florida)
- OU, MIAO-JUNG**, Assistant Professor of Mathematics  
(2003), Ph.D. (University of Delaware)
- OUSLEY, DENISE**, Assistant Professor of Education  
(2002), B.A., M.A., Ph.D. (University of Tennessee)
- OWENS, LINDEE**, Instructor of English  
(1974), B.A., M.L.S. (University of Mississippi)
- PAGAN, MIGDALIA**, Visiting Instructor of Education  
(1999), B.A., M.Ed., Ed.S. (Florida State University)
- PALMER, MARY J.**, Professor of Music Education  
(1970), B.S., M.S., Ed.D. (University of Illinois)
- PAOLINE, EUGENE A.**, Assistant Professor of Criminal Justice  
(2001), B.S., M.A., M.S., Ph.D. (SUNY at Albany)
- PARK, HOON**, Associate Professor of Finance  
(1988), B.A., M.B.A., Ph.D. (Georgia State University)
- PARK, SHELLEY M.**, Associate Professor of Philosophy  
(1990), B.A., M.A., Ph.D. (Duke University)
- PARKINSON, CHRISTOPHER L.**, Assistant Professor of Biology  
(2000), B.S., M.S., Ph.D. (University of Louisville)
- PARRY, KATHERINE K.**, Director and Associate Professor in Physical Therapy  
(2000), B.S., M.S., Ph.D. (University of Oklahoma)
- PARSONS, VARLA**, Externship Supervisor/Visiting Instructor-Brevard  
(2002), B.S. Speech Pathology
- PATTANAIAK, SUMANTA**, Director, Associate Professor of Computer Science  
(2001), B.S., M.S., PhD (Birla Institute of Science and Technology)
- PAUGH, ROBERT F.**, Associate Professor of Education  
(1973), B.S., M.A., Ed.D. (North Carolina State University)
- PAULEY, BRUCE F.**, Professor of History  
(1971), B.A., M.A., Ph.D. (University of Rochester)
- PAWLAS, GEORGE E.**, Professor of Education  
(1991), B.S., M.Ed., Ph.D. (University of South Carolina)
- PEALE, ROBERT E.**, Professor of Physics  
(1991), B.A., M.S., Ph.D. (Cornell University)
- PELLI, MOSHE**, Tess and Abe Wise Endowed Professor of Judaic Studies and Director, Judaic Studies Program  
(1985), B.S., Ph.D. (The Dropsie College)
- PELLICCIO, SUSAN**, Visiting Assistant Instructor  
(1997), R.N., M.S.N. (H.H. Lehman College)
- PENNINGTON, ROBERT L.**, Director, Center for Economic Education and Associate Professor of Economics  
(1983), B.A., Ph.D. (Texas A&M University)
- PENSKY, MARIANNA Y.**, Associate Professor of Mathematics  
(1995), B.Sc, M.Sc, Ph.D. (Moscow University)
- PEPE, JULIE**, Visiting Instructor in Statistics  
(2004), B.A., M.S. (Purdue University)
- PERRY, JONATHAN**, Assistant Professor of History  
(1999), B.A., M.A., Ph.D. (University of North Carolina)
- PERRY-CARSON, CECYLE**, Associate Professor  
(2004), PhD (Wichita State University)
- PET-ARMACOST, JULIA J.**, Assistant Vice President, Information Planning and Assessment, and Associate Professor of Industrial Engineering and Management Systems  
(1993), B.S., M.S., Ph.D. (Case Western Reserve University)
- PETAOLD, ROXANNE**, Visiting Instructor of Chemistry  
(2002), B.S., M.S. (University of Central Florida)
- PETERS, PHILIP**, Division Head of Film Division  
(1981), B.A., M.F.A. (University of Montana)
- PETERSON, ERIC**, Assistant Professor of Engineering  
(2001), B.S., M.S., Ph.D. (Stanford)
- PETERSON, JANICE Z.**, Assistant Professor of Nursing  
(1996), R.N., M.S., Ph.D. (University of Florida)
- PETRASKO, BRIAN E.**, Associate Professor of Engineering Science  
(1972), B.E.E., M.E., D.Eng. (University of Detroit)
- PETROLA, JAMES**, Visiting Assistant Professor of Physical Therapy  
(2002), Ph.D., (Kirksville College of Osteopathic Medicine, MO)
- PHANSTIEL, OTTO**, Associate Professor of Chemistry  
(1995), B.S., Ph.D. (University of Florida)
- PHERIGO, JOHNNY L.**, Chair and Professor of Music  
(2004), B. Mus., M.M., D.M.A. (University of Illinois)
- PHILLIPS, RONALD L.**, Professor of Engineering Science and Mathematics  
(1970), B.S.E., M.S.E., M.A., Ph.D. (Arizona State University)
- PIASCIK, JEANNE M.**, Assistant University Librarian  
(1995), B.S., M.L.S. (Kent State University)
- PICKERING, ROY**, Professor of Music  
(1979), B.M.E., M.M. (Indiana University)
- PIERCE, JR., CHARLES F.**, Visiting Assistant Professor (Executive in Residence)  
(2002), B.A., M.G.A. (University of Pennsylvania)
- PINA, WILFREDO SGT**, Supply Sergeant  
**PIZAM, ABRAHAM**, Dean Rosen School of Hospitality Management, Chapin Eminent Scholar Chair in Tourism Management, and Professor of Hospitality Management  
(1983), B.A., M.P.A., Ph.D. (Cornell University)
- PLATT, JENNIFER M.**, Associate Dean for Academic Affairs and Professor of Education  
(1985), B.S., M.S., Ed.D. (West Virginia University)
- POINDEXTER, CARLA**, Assistant Professor of Art  
(2000), B.F.A., M.F.A. (Texas Tech University, Lubbock)
- POLITE, FRITZ G.**, Assistant Professor of Sports Business Management  
(2002), B.S., MPA, Ph.D. (Florida State University)
- POLLOCK, PHILIP H.**, Professor of Political Science  
(1982), B.A., Ph.D. (University of Minnesota)
- POMERLEAU, JULIE**, Visiting Instructor of Modern languages and Literatures  
(2003), B.A., M.A. (University of Barcelona, Spain)
- POWELL, LORRIE**, Associate Professor  
(2004), RN, PhD (Boston University)
- PRITCHARD, ROBERT D.**, Professor of Psychology  
(2003), B.A., Ph.D. (University of California, Los Angeles)
- PROCTOR, MICHAEL D.**, Associate Professor of Engineering  
(1994), B.S., M.S., Ph.D. (North Carolina State)
- PRUCHA, ANNE**, Instructor of Modern languages and Literatures  
(2000), B.A., M.A. (Rutgers)
- PRYOR, ALBERT V.**, Graduate Coordinator and Professor of Communication  
(1972), B.S., M.A. (University of Michigan)
- PUGH, TISON**, Assistant Professor of English  
(2000), B.A., M.A., M. Ed., Ph.D. (University of Oregon)
- PURMENSKY, KERRY**, Assistant Professor TESOL and Modern languages and Literatures  
(2003), B.A., M.S., Ph.D. (Southern Illinois University, Carbondale)
- PUTCHINSKI, LINDA B.**, Instructor of Management  
(1996), MBA, Ed.D. (University of Central Florida)
- QI, YUANWEI**, Assistant Professor of Mathematics  
(2003), Ph.D. (University of Oxford)
- QU, ZHIHUA**, Professor of Engineering  
(1990), B.S.E., M.S.E., Ph.D. (Georgia Tech)
- QUIGLEY, MARTIN F.**, Associate Professor of Biology  
(2004), B.A., M.L.A., Ph.D. (Louisiana State University)
- QUINN, RICHARD**, Visiting Instructor of Management  
(1999), B.A., M.B.A. (Rochester Institute of Technology)
- QUINTANA-ASCENCIO, PEDRO F.**, Assistant Professor of Biology  
(2003), B.S., M.S., Ph.D. (State University of New York at Stony Brook)
- RABBY, MICHAEL**, Assistant Professor of Communication  
(2002), B.S., M.A., Ph.D. (Arizona State University)
- RABELO, LUIS**, Associate Professor of Engineering  
(2000), B.S., M.S., Ph.D. (University of Missouri Rolla)
- RADWAN, A. ESSAM**, Professor of Engineering  
(1990), B.S., M.S., Ph.D. (Purdue University), P.E. (Arizona, Florida, Virginia, Egypt)
- RAGUSA, JAMES M.**, Associate Professor of Engineering  
(1987), B.S.M.E., M.S.M., D.B.A. (Florida State University)
- RAHROOH, ALIREZA**, Associate Professor of Engineering Technology  
(1994), B.S.E.E., M.S.E.E., Ph.D. (University of Akron)
- RAMANLAL, PRADIPKUMAR**, Associate Professor of Finance  
(1998), B.A., M.B.A., Ph.D. (University of Michigan)
- RANDALL, ANDREW A.**, Associate Professor of Engineering  
(1994), B.S.CE, M.S., Ph.D.

# UCF Faculty and Staff

(Auburn University), P.E. (Florida)	Management	Nebraska)	(2001), B.A., M.A., Ph.D. (University of Florida)	Instructor of AT
<b>RANDALL, JEROME</b> , Instructor of Criminal Justice (1999), B.A., M.A. (Chapman University)	(2001), B.A., M.S. (University of Florida C.H.A.)	<b>ROHDIE, SAM</b> , Professor of Film (1980), B.A., M.A., Ph.D. (La Trobe University)	<b>RUDNER, NANCY</b> , Assistant Professor of Nursing (2002), M.S.N., M.P.H., Ph.D., (University of Michigan)	(2004), MA (University of Central Florida)
<b>RAPPORT, MARK</b> , Professor of Psychology (2000), B.A., M.A., Ph.D. (Florida State University)	<b>RICHARDSON, GARY D.</b> , Professor of Mathematics and Statistics (1984), B.S., M.S., Ph.D. (North Carolina State University)	<b>ROHTER, FRANK D.</b> , Professor of Education (1968), B.S., M.Ed., Ph.D. (University of Southern California)	<b>RULAND, JUDITH P.</b> , Associate Professor of Nursing (2002), M.S.N., Ph.D., (State University of New York, Albany)	<b>SALZMANN, FRANK L.</b> , Assistant Professor of Mathematics (1970), B.S., M.S., Ph.D. (Auburn University)
<b>RATUSNIK, DAVID L.</b> , Professor of Communicative Disorders (1985), B.S., M.A., Ph.D. (Northwestern University)	<b>RICHIE, SAMUEL M.</b> , Associate Professor of Engineering (1984), B.S.E., M.S.E., Ph.D. (University of Central Florida)	<b>ROLDAN-CUENYA, BEATRIZ</b> , Assistant Professor (2003), Ph.D. (Gerhard-Mercator Universität)	<b>RUNGELING, BRIAN S.</b> , Professor of Economics (1981), M.A., Ph.D. (University of Kentucky)	<b>SANBORN, JOSEPH B.</b> , Associate Professor of Criminal Justice (1994), B.A., M.A., Ph.D. (SUNY at Albany)
<b>REDMON, MARIA</b> , Instructor of Modern languages and Literatures (1989), B.A., M.A. (Universidad Complutense De Madrid)	<b>RINALDUCCI, EDWARD J.</b> , Professor of Psychology (1986), B.A., M.A., Ph.D. (University of Rochester)	<b>ROLLAND, JANNICK P.</b> , Associate Professor of Electrical & Computer Engineering and Computer Science (1996), B.S., Ph.D. (University of Arizona)	<b>RUPERT, JEFFREY</b> , Associate Professor of Music (1995), B.M., M.M. (Rutgers University)	<b>SANDLER, BARRY</b> , Associate Professor of Dynamic Media and Film M.F.A. (University of California, Los Angeles)
<b>REDMOND, PATRICE</b> , Visiting Instructor of Education (2002), B.A., M.S. (Nova Southeastern University)	<b>RIVERA, FERNANDO</b> , Associate Professor of Sociology (2005), B.A., M.A., Ph.D. (University of Nebraska)	<b>ROLLINS, DAVID K.</b> , Associate Professor of Mathematics (1988), B.Sc., Ph.D. (California Institute of Technology)	<b>RUSCELLA, J. J.</b> , Assistant Professor of Theatre (1999), B.A., M.F.A. (Rutgers University)	<b>SANTANA, MARIA C.</b> , Associate Professor of Communication (1995), B.A., M.A. (Temple University)
<b>REEDY, ROBERT T.</b> , Professor of Art (1993), B.F.A., M.F.A. (University of Mississippi)	<b>RIVERS, KENYATTA O.</b> , Associate Professor of Communicative Disorders (1995), B.S., M.A., Ph.D. (University of Florida)	<b>ROMJUE, MARY K.</b> , Associate Professor of Education (1993), B.A., Ph.D. (University of Nebraska)	<b>RUSHIN, PATRICK J.</b> , Associate Professor of English (1983), B.A., M.A. (Johns Hopkins University)	<b>SAPER, CRAIG J.</b> , Professor of English (2002), B.A., M.A., Ph.D. (University of Florida)
<b>REICHERT, SHAWN M.</b> , Assistant Professor (2002), B.A., M.A., Ph.D. (Rice University)	<b>RIVERS, ROBERT H., JR.</b> , Professor of Art (1981), B.F.A., M.F.A. (University of Georgia)	<b>ROMPF, PAUL D.</b> , Associate Professor of Hospitality Management (2002), B.S., M.B.A., Ph.D. (University of South Carolina)	<b>RUSNOCK, JOSEPH S.</b> , Associate Professor of Theatre and Associate Department Chair (1985), B.A., M.F.A. (University of Minnesota)	<b>SARKAR, MITRABARUN</b> , Assistant Professor of Marketing (1999), B.A., M.B.A., Ph.D. (Michigan State University)
<b>REID, MICAEL</b> , Assistant Professor of Mathematics (2003), Ph.D. (Brown University)	<b>RIZA, N.</b> , Assistant Professor of Engineering (1995), B.S., M.S., Ph.D. (California Institute of Technology)	<b>RONEY, LISA C.</b> , Assistant Professor of English (2002), B.A., M.A., Ph.D. (Pennsylvania State University)	<b>RUZICH, JOHN J. LTC</b> , Professor of Military Science B.E. (Youngstown State University), M.B.A. (Florida Institute of Technology)	<b>SAUL, JEFFREY</b> , Assistant Professor of Physics (2000), Ph.D. (University of Maryland)
<b>REILLY, CHARLES H.</b> , Professor of Industrial Engineering and Management Systems (1996), B.A., M.S., Ph.D. (Purdue University)	<b>ROBERTS, ROBIN W.</b> , Chairholder, Al Burnett Eminent Scholar Chair in Accounting and Professor of Accounting (1998), B.B.A., M.B.A., Ph.D. (University of Arkansas)	<b>RONEY, WILLIAM L.</b> , Distinguished Professor of Music and Artist in Residence (1982), B.S. (Harvard College)	<b>RYALLS, JOHN N.</b> , Professor of Communicative Disorders (1995), B.A., D.E.A., M.A., Ph.D. (Brown University)	<b>SAUNDERS, CAROL S.</b> , Professor of Management Information Systems (2001), B.A., M.B.A., Ph.D. (University of Houston)
<b>REINHARD, ERIK</b> , Assistant Professor of Computer Science (2002), B.S., M.S., PhD (University of Bristol)	<b>ROBERTS, SHERRON KILLINGSWORTH</b> , Assistant Professor of Education (1987), B.S. Ed., M.Ed., Ed.D. (University of Arkansas)	<b>ROSA-LUGO, LINDA I.</b> , Associate Professor of Communicative Disorders (1995), B.S. M.S., M.Ed., Ed.D. (Teacher's College Columbia)	<b>SADRI, HOUMAN A.</b> , Associate Professor of Political Science (1995), B.A., M.A., Ph.D. (University of Virginia)	<b>SAVAGE, LINDA J.</b> , Associate Professor of Accounting (1980), B.S., M.S., Ph.D. (University of Florida)
<b>REINHART, DEBRA R.</b> , Interim Chair and Professor of Civil and Environmental Engineering (1989), B.S.E., M.S., Ph.D. (Georgia Tech), P.E. (Florida, Georgia)	<b>ROBINSON, E. H. MIKE</b> , Professor of Education (1997), B.A., M.Ed., Ph.D. (Duke University)	<b>ROSS, LEE</b> , Associate Professor (2003), Ph.D. (Rutgers University)	<b>SAFRANEK, WILLIAM</b> , Clinical Faculty, Medical Laboratory Sciences Ph.D., (Temple University)	<b>SAVITZ, KYLE</b> , Instructor (2003), MSN (University of Central Florida)
<b>REN, JIAN-JIAN</b> , Associate Professor of Mathematics (1990), B.S., M.A., M.S., Ph.D. (University of North Carolina-Chapel Hill)	<b>ROBINSON, SANDRA</b> , Dean and Professor of Education (1997), B.A., M.A., Ph.D. (Duke University)	<b>ROTARIUS, TIMOTHY M.</b> , Associate Professor of Health Services Administration (1996), B.B.A., M.B.A., Ph.D. (Texas Tech University)	<b>SADRI, HOUMAN A.</b> , Associate Professor of Political Science (1995), B.A., M.A., Ph.D. (University of Virginia)	<b>SCHARF, MARGARET K.</b> , Associate Director for Public Services (1984), B.A., M.L.S., M.B.A. (University of Central Florida)
<b>RENK, KIMBERLY</b> , Assistant Professor of Psychology (2000), B.S., M.A., Ph.D. (University of South Florida)	<b>ROCKMORE, B. WAYNE</b> , Visiting Instructor of Management (2001), B.S., M.S., Ph.D. (University of Georgia)	<b>ROTH, JAMES D.</b> , Research Assistant Professor (2000), B.A., M.S., Ph.D. (University of Minnesota)	<b>SAHA, HARI</b> , Professor of Physics (1987), B.S., Ph.D. (University of Calcutta)	<b>SCHARRON, ELADIO</b> , Associate Professor of Music (1999), D.M.A. (Eastman School of Music)
<b>REYNOLDS, KENNETH</b> , Assistant Professor of Criminal Justice (1997), B.A., M.P.A., Ph.D. (University of New Orleans)	<b>RODRIGUEZ, RENE S.</b> , Associate Professor of Mathematics (1971), B.Ch.E., Ph.D. (University of Tennessee)	<b>ROUSH, PAMELA B.</b> , Associate Professor of Accounting (1989), B.A., M.B.A., Ph.D. (Georgia State University)	<b>SALAS, EDUARDO</b> , Professor of Psychology and Trustee Chair (1999), B.A., M.S., Ph.D. (Old Dominion University)	<b>SCHELL, JOHN F.</b> , Vice Provost and Dean of Undergraduate Studies; and Professor of English (1987), B.A., M.A., Ph.D. (Vanderbilt University)
<b>REYNOSA, PAULA</b> , Instructor in Psychology (2003), B.S., M.A., Ph.D. (University of California, Irvine)	<b>ROGERS, MELVIN</b> , Assistant Dean and Instructor of Public Administration (1996), B.S., M.S. (University of	<b>RUBIN, RONALD S.</b> , Professor of Marketing (1972), B.A., M.A., Ph.D. (University of Massachusetts)	<b>SALTER, MARILYN P.</b> , Instructor of Accounting (1981), B.S., M.S.A. (University of Central Florida)	<b>SCHELLHASE, KRISTEN</b> , Program Director/Instructor of AT (2004), M.Ed (University of Virginia)
<b>RICCI, PETER</b> , Assistant Professor of Hospitality		<b>RUDDY, BARI</b> , Assistant Professor of Communicative Disorders	<b>SALTER, MITCHELL</b> , Visiting	<b>SCHELLING, PATRICK K.</b> , Assistant Professor (2003), Ph.D. (University of Minnesota)



<b>ScHIAVONE, GUY</b> , Assistant Professor of Engineering (2001), B.S., M.S., PhD (Dartmouth)	<b>SCOTT, JOHN B.</b> , Assistant Professor of English (2002), B.A., M.A., Ph.D. (Pennsylvania State University)	Professor of Biology (2002), B.S., M.S., Ph.D. (Ruhr University-Brochum Germany)	<b>SITTLER, REBECCA D.</b> , Assistant Professor (2003), B.A., M.F.A. (Massachusetts College of Art)	<b>SNELSON, FRANKLIN F., JR.</b> , Professor of Biology (1970), B.S., Ph.D. (Cornell University)
<b>SCHIPPERT, CLAUDIA</b> , Assistant Professor of Humanities and Religion (2001), B.A., M.A., Ph.D. (Temple University)	<b>SCROGIN, DAVID D.</b> , Assistant Professor of Economics (2001), B.S., M.A., Ph.D. (University of New Mexico)	<b>SHIRKEY, EDWIN C.</b> , Associate Professor of Psychology (1971), B.A., M.A., Ph.D. (University of Wisconsin)	<b>SIVO, STEPHEN A.</b> , Assistant Professor of Education (2000), B.A., M.A., Ph.D. (Franciscan University of Steubenville)	<b>SNOW, MARILYN R.</b> , University Librarian (1984), B.A., M.L.S. (George Peabody College)
<b>SCHLOW, STEPHEN</b> , Visiting Lecturer of Film B.S. (Boston University)	<b>SEAL, SUDIPTA</b> , Associate Professor of Engineering (1997), B. Tech. (Hons), M.S., Ph.D. (University of Wisconsin)	<b>SHIVAMOGGI, BHIMSEN</b> , Professor of Mathematics and Physics (1985), B.S., M.S., Ph.D. (University of Colorado)	<b>SLAUGHTER, DAVID B.</b> , Assistant Professor of Legal Studies (1978), B.A., J.D. (Florida State University)	<b>SOHN, YONG-HO</b> , Assistant Professor of Engineering (2001), Ph.D. (Purdue University)
<b>SCHMINKE, MARSHALL</b> , Professor of Management (1999), B.S., M.S., Ph.D. (Carnegie Mellon University)	<b>SEAY, DONALD W.</b> , Professor of Theatre (1992), B.S., M.S., M.F.A., Ph.D. (Texas Tech University)	<b>SHORT, EDMUND</b> , Associate Professor of Education (1999), B.S., M.Ed., Ed.D. (Teachers College, Columbia University)	<b>SLOAN, ROBERTA</b> , Professor of Theatre and Department Chair/Artistic Director (2004), B.S., A.M., Ph.D. (University of Michigan)	<b>SOILEAU, MARION J.</b> , Vice President for Research and Professor of Optics, ECE, and Physics (1987), B.S., M.S., Ph.D. (University of Southern California)
<b>SCHNITZLEIN, CHARLES R.</b> , Assistant Professor of Finance (2002), B.S., M.S., Ph.D. (Washington University)	<b>SECORD, WAYNE</b> , Professor (2003), Ph. D. (University of Cincinnati)	<b>SHOWALTER, STUART J.</b> , Instructor in Health Services Administration (2000), J.D. (Washington University in St. Louis)	<b>SLUTI, GILLIAN I.</b> , Visiting Assistant Professor of Education (1999), B.A., S.T.D., B.Ed., Ph.D. (University of Connecticut)	<b>SOLE, MARY LOU</b> , Professor of School of Nursing (1987), B.S.N., M.S., Ph.D. (University of Texas at Austin)
<b>SCHOTT, JAMES R.</b> , Professor of Statistics (1982), B.S., M.S., Ph.D. (University of Florida)	<b>SEELEY, KATHERINE</b> , Visiting Instructor of Education (2002), B.A., M.A. (Western Michigan University)	<b>SHRAUGER, KRISTINE J.</b> , Assistant University Librarian (2004), B.S., M.L.I.S. (University of Wisconsin)	<b>SMITH, ERNEST</b> , Associate Professor of English (1990), B.A., M.A., Ph.D. (New York University)	<b>SOLONARI, VLADIMIR</b> , Assistant Professor of History (2003), B.A., Ph.D. (Moscow State University)
<b>SCHOTT, SUSAN C.</b> , Instructor of Statistics (1982), B.S., M.S. (University of Florida)	<b>SEGAL, DAVID</b> , Asst Professor (2003), PhD (University of South Florida)	<b>SHUMAKER, RANDALL P.</b> , Director, Institute for Simulation & Training (2002), Ph.D (University of Pennsylvania)	<b>SMITH, FRANCES B.</b> , Associate Professor of Nursing (1979), R.N., M.S.N., Ed.D. (Florida State University)	<b>SOODER, KARL M.</b> , Instructor of Marketing (2001), B.A., M.B.A. (Columbia University)
<b>SCHRAUFNAGEL, SCOT</b> , Assistant Professor (2002), B.A., M.A., Ph.D. (Florida State University)	<b>SEIDEL, KATHRYN L.</b> , Dean, College of Arts & Sciences, and Professor of English (1986), B.A., M.A., Ph.D. (University of Maryland)	<b>SIEBERT, BARRY W.</b> , Associate Professor of Education (1972), B.S., M.A., Ph.D. (University of North Dakota)	<b>SMITH, GERALD</b> , Director/Associate Professor (2004), Ph. D. (Medical College of Virginia, Virginia Commonwealth University)	<b>SOSKIN, MARK D.</b> , Associate Professor of Economics, Daytona Campus (1988), B.A., M.A., Ph.D. (Pennsylvania State University)
<b>SCHULTE, ALFONS</b> , Associate Professor of Physics (1990), Diploma in Physics, Dr. rer. nat. (Technische Universitaet Munich)	<b>SELBY, THOMAS</b> , Assistant Professor of Chemistry (2002), B.S., Ph.D. (Ohio State)	<b>SIEGFRIED, JUDI</b> , Visiting Assistant Professor of Theatre (2004), M.F.A. (Texas Christian University)	<b>SMITH, LISA</b> , Visiting Instructor, School of Nursing (2000), M.S.N., R.N., C.C.R.N. (University of Alabama in Huntsville)	<b>SOTERO-ESTEVA, WALTER D.</b> , Instructor of Biology (2001), B.S., Ph.D. (Indiana University)
<b>SCHULTE, LYNDA</b> , Instructor of Education (2000), B.S., M.S. (Nova Southeastern University)	<b>SELF, WILLIAM</b> , Assistant Professor (2003), Ph. D., Microbiology	<b>SIGMAN, MICHAEL</b> , Associate Professor of Chemistry and Forensic Science (2002), B.S., Ph.D. (Florida State University)	<b>SMITH, LYNN</b> , Associate Professor of Nursing (2001), M.S.N., A.R.N.P., C.P.N.P., Ph.D. (University of Florida)	<b>SPENCER, STEVEN C.</b> , Instructor (2003), B.S., M.F.A. (Louisiana State University)
<b>SCHULTZ, JOHN J.</b> , Assistant Professor of Anthropology (2003), B.A., M.S., Ph.D. (University of Florida)	<b>SEMONES, MEREDITH C.</b> , Associate University Librarian (1995), B.A., M.L.S. (University of Maryland)	<b>SIKORSKA-SIMMONS, ELIZABETH</b> , Assistant Professor of Sociology (2002), M.A., Ph.D. (University of Maryland)	<b>SMITH, RONALD F.</b> , Professor of Communication (1980), A.B., M.A. (Ball State University)	<b>SPINA, GRAZIA</b> , Instructor of Modern languages and Literatures (2002), B.A., M.A. (University of Genoa, Italy)
<b>SCHUTZ, CATHERINE I.</b> , Instructor of English (2004), B.A., M.A. (University of Pennsylvania, Bloomsburg)	<b>SEPULVEDA, JOSE A.</b> , Associate Professor of Engineering (1981), B.S.Ch.E., M.S.I.E., M.P.H., Ph.D. (University of Pittsburgh), P.E. (Florida)	<b>SIMMONS, ROGER D.</b> , Head, Circulation Services Department and University Librarian (1990), B.A., M.A. (University of Chicago)	<b>SMITH, STANLEY D.</b> , Chairholder, SunTrust Chair of Banking and Professor of Finance (1996), B.B.A., M.B.A., Ph.D. (Arizona State University)	<b>SPINA, ROBERT</b> , Professor of Education (2001), B.S., M.S., Ph.D. (University of Pittsburgh)
<b>SCHWARTZ, JAMIE</b> , Assistant Professor of Communicative Disorders (1997), A.A., B.A., M.A., Ph.D. (University of Florida)	<b>SHAFER, JOHN</b> , Assistant Professor of Theatre (1998), B.F.A., M.F.A. (University of Louisville)	<b>SIMS, VALERIE</b> , Assistant Professor of Psychology (1998), B.A., M.S., Ph.D. (University of California Santa Barbara)	<b>SMITH, TYLER</b> , Assistant in Theatre (2001), M.F.A. (University of Illinois)	<b>SPRAKER, SUSAN P.</b> , Instructor of English (1999), B.A., M.F.A. (University of North Carolina at Greensboro)
<b>SCOTT, ANDREA TOWERS</b> , Assistant Professor of Communication (2003), B.A., M.A., Ph.D. (Louisiana State University)	<b>SHAH, MUBARAK A.</b> , Professor of Computer Science (1986), B.E., M.S., Ph.D. (Wayne State University)	<b>SINDLINGER, JUDITH A.</b> , Director, Office of Student Support Services, College of Health and Public Affairs (1991), B.A., M.Ed., Ed.D. (Indiana University)	<b>SMITH V., SCOTT</b> , Assistant to the Director, School of Accounting and Instructor of Accounting (1998), B.S., M.B.A. (Loyola College)	<b>SPYERS-DURAN, PETER</b> , Assistant University Librarian (1996), B.A., M.A.L.I.S. (University of South Florida)
<b>SCOTT, BERT</b> , Assistant Professor (1993), M.F.A. (University of North Carolina)	<b>SHAVER, DANIEL</b> , Assistant Professor of Communication (2004), B.A., M.B.A., Ph.D. (University of North Carolina)	<b>SINGER, HOWARD J.</b> , Instructor of Real Estate (2002), B.S., EMBA, J.D. (University of Miami)	<b>SMITHER, JANAN A.</b> , Associate Professor of Psychology (1990), B.S., M.A., Ph.D. (Johns Hopkins University)	<b>ST.CLAIRE, SYBIL</b> , Assistant in Theatre (1996), B.A., M.A., Ph.D. (Greenwich University)
<b>SCOTT, DAVID F. JR.</b> , Holder, Phillips-Schenck Chair in American Private Enterprise; Executive Director, Dr. Phillips Institute for the Study of American Business Activity; and Professor of Finance (1982), B.S.B.A., M.B.A., Ph.D. (University of Florida)	<b>SHEPLAN, ILONA</b> , Visiting Instructor (2004), RN, MSN (University of Florida)			<b>STAHLEY, MEM T.</b> , Head of Partnership Library Services and Associate University Librarian, Brevard Campus (1990), B.A., M.L.S., M.P.A., Ed.D. (University of Central

# UCF Faculty and Staff

Florida)	(1968), B.A. (Institut fuer Flimgestaltung (Hochschule fuer Gestaltung))	(2001), Ph.D. (Banaras Hindu University)	(1998), B.A., M.A. (University of Central Florida)	<b>TRUJILLO, ANTONIO J.</b> , Assistant Professor of Health Services Administration
<b>STANICK, NANCY</b> , Assistant Professor of Philosophy	<b>STONE, DIANNA L.</b> , Professor of Management	<b>SUSSAN, AYSAR P.</b> , Visiting Instructor of Management	<b>TESONE, DANA</b> , Assistant Professor of Hospitality Management	(2000), B.S., M.P.P., Ph.D. (University of North Carolina at Chapel Hill)
(2001), B.A., M.A., Ph.D. (University of South Florida)	(1998), B.A., Ph.D. (Purdue University)	(2001), B.S., M.S., D.B.A. (Nova Southeastern University)	(2001), B.S., M.S., M.B.A., Ph.D. (Nova Southeastern University)	<b>TUBBS, LeVESTER</b> , Associate Professor of Education
<b>STANNEY, KAY</b> , Professor of Engineering	<b>STONE-ROMERO, EUGENE F.</b> , Professor of Psychology	<b>SUTTON, LINDA J.</b> , Head, Cataloging Department and University Librarian	<b>TETER, KENNETH</b> , Assistant Professor of Molecular Biology and Microbiology	(1980), B.S., M.S., Ed.D. (University of Missouri-Columbia)
(1992), B.S., M.S., Ph.D. (Purdue University)	(1998), Ph.D. (University of California, Irvine)	(1988), B.A., M.L.S. (Florida State University)	(2004), PhD (University of California)	<b>TUCKER, RICHARD D.</b> , Professor of Psychology and Intern Chair
<b>STANSBERRY, FRANK</b> , Instructor of Communication	<b>STOUT, I. JACK</b> , Professor of Biology	<b>SWANSON, JOANNE</b> , Instructor of Chemistry	<b>THAXTON, TERRY A.</b> , Assistant Professor of English	(1972), A.B., M.A., Ph.D. (Emory University)
(1997), B.S., M.A. (University of Central Florida)	(1972), B.S., M.S., Ph.D. (Washington State University)	(2002), B.S., M.S. (University of Central Florida)	(2002), B.A., M.A., M.F.A. (Vermont College)	<b>TURGUT, DAMLA</b> , Assistant Professor of Engineering
<b>STAP, DONALD L.</b> , Professor of English	<b>STRAWSER, MICHAEL</b> , Visiting Professor of Philosophy	<b>SWEENEY, ALDRIN</b> , Assistant Professor of Education	<b>THIENEL, NORMAN L.</b> , Instructor of Management Information Systems	(2002), B.S., M.S., PhD (University of Texas at Arlington)
(1985), B.A., Ph.D. (University of Utah)	(2002), B.A., M.A., Ph.D. (Florida State University)	(1997), Ph.D. (Florida State University)	(2002), B.E., MBA, M.S (Virginia Tech)	<b>TURNAGE, BARBARA</b> , Associate Professor, School of Social Work
<b>STAPLETON, CHRISTOPHER</b> , Assistant Professor of Digital Media, Director of Entertainment Research at the Institute for Stimulation and Training	<b>STRIBLING, ZACHARY</b> , Assitant in Theatre	<b>SWEENEY, MICHAEL J.</b> , Interim Vice Provost, Regional Campuses, and Professor of Molecular Biology and Microbiology	<b>THOMAS, MARGARET H.</b> , Professor of Psychology	(1999), B.S.W., M.S.W., Ph.D. (Tulane University)
(1984), B.F.A., M.F.A. (New York University)	(2003), M.F.A. (Florida State University)	(1972), B.S., Ph.D. (Temple University School of Medicine)	(1971), B.A., M.A., Ph.D. (Tulane University)	<b>UDDIN, NIZAM</b> , Associate Professor of Statistics
<b>STAUFFER, NICOLE</b> , Visiting Instructor of Modern Languages and Literatures	<b>SU, XIAO-GANG</b> , Assistant Professor of Statistics	<b>SWEET, HAVEN C.</b> , Assistant to the Dean, College of Arts & Sciences, and Professor of Biology	<b>THOMAS, PAMELA S.</b> , Instructor of Biology	(2001), B.Sc., M.Sc, Ph.D. (Old Dominion University)
(2002), B.A., M.A. (University of South Florida)	(2001), B.S., M.S., Ph.D. (University of California, Davis)	(1971), B.S., Ph.D. (Syracuse University)	(2000), B.S., M.S. (University of Central Florida)	<b>UHL-BIEN, MARY</b> , Associate Professor of Management
<b>STEARMAN, ALLYN M.</b> , Professor of Anthropology	<b>SUBLETTE, JERRY</b> , Visiting Instructor of Communication	<b>SYPOLT, TERRIE K.</b> , Associate University Librarian	<b>THOMPSON, MATTHEW</b> , Visiting Instructor of Communication	(1995), B.B.A., M.B.A., Ph.D. (University of Cincinnati)
(1976), B.A., M.A., Ph.D. (University of Florida)	(2004), B.A., M.A. (Marshall University)	(2001), B.A., M.L.S. (University of Pittsburgh)	(2003), B.A., M.A. (Florida State University)	<b>ULLOM, CRAIG E.</b> , Associate Vice President for Campus Life
<b>STEBBINS, CONSUELO</b> , Assistant Dean, College of Arts And Sciences, Associate Professor of Modern Languages and Literatures	<b>SUGAYA, KIMINOBU</b> , Professor, Biomolecular Science Center	<b>SZYMANSKI, ROBERT J.</b> , Instructor of Management Information Systems	<b>THOMPSON, WILLIAM J.</b> , Undergraduate Coordinator, Assistant Professor of Engineering	(1998), B.A., M.S., Ed.D. (University of Georgia)
(1987), B.A., M.A., Ph.D. (Florida State University)	(2004), Ph.D (Science University of Tokyo)	(2002), B.S., MBA (Boston College)	(1995), B.S., M.S., Ph.D. (Arizona State University)	<b>ULM, ERIC R.</b> , Visiting Assistant Professor
<b>STEFFENS, CATHERINE L.</b> , Instructor University Librarian	<b>SULEMAN, SALEHA</b> , Faculty Associate of Communication	<b>TAFT, ROBERT A.</b> , Instructor of International Business	(2002), B.S., M.S., Ph.D. (Indiana State University)	(2002), B.S., M.S., Ph.D. (Ohio State University)
(2003), B.A., M.A.L.I.S. (University of South Florida)	(2004), B.A., M.A. (Marshall University)	(1996), B.A., M.B.A. (University of Connecticut)	<b>THORNTON, ROBERT</b> , Instructor of Music	<b>UNDERBERG, NATALIE</b> , Folklorist
<b>STEGEMAN, GEORGE I.A.</b> , Chairholder, Cobb-L.J. Hooker Chair in Optical Sciences and Professor of Physics and Electrical Engineering	<b>SULLIVAN, TIMOTHY J.</b> , Associate Professor of Education	(2002), B.S., M.S., Ph.D., (Institute of Cytology, Russia)	(2002), M.M. (Indiana University)	(2002), B.A., M.A., Ph.D. (Indiana University)
(1990), B.S., M.S., Ph.D. (University of Toronto)	(1971), B.A., M.A., Ed.D. (Northern Illinois University)	<b>TATULIAN, SUREN, A.</b> , Associate Professor of Molecular Biology and Microbiology	<b>TITTERINGTON, VICTORIA</b> , Associate Professor of Sociology	<b>UNRUH, LYNN Y.</b> , Assistant Professor of Health Services Administration
<b>STEPHENSON, JOANNE</b> , Director, African American Studies, and Associate Professor of Music	<b>SUMMERS, CARLA M.</b> , Head, Special Collections/University Archives and University Librarian	(2002), B.S., M.S., Ph.D., (Institute of Cytology, Russia)	(2003), B.A., M.S., M.S.W., Ph.D. (Tulane)	(2000), R.N., B.S.N., M.A., Ph.D. (University of Notre Dame)
(1994), B.M., M. M., D.M.A. (University of Illinois)	(2003), B.A., M.S. (Florida State University)	<b>TAUB, GORDON</b> , Assistant Professor of Education	<b>TOLLEFSON, KRISTINA</b> , Assistant Professor of Theatre	<b>UPCHURCH, RANDALL S.</b> , ARDA Professor of Resort Development and Associate Professor of Hospitality Management
<b>STICKLEY, C. MARTIN</b> , Professor of Engineering	<b>SUN, QIYU</b> , Assistant Professor of Mathematics	(1999), B.A., M.ED, Ph.D. (University of Florida)	(2000), B.A., M.F.A. (Purdue University)	(1998), B.A., M.A., Ph.D. (University of Missouri-Columbia)
(1990), B.S.E.E., M.S.E.E., Ph.D. (Northeastern University)	(2003), Ph.D. (Hangzhou University, Hangzhou China)	<b>TAYLOR, FINLEY M.</b> , Assistant Professor of Modern languages and Literatures	<b>TOMEI, LANCE</b> , Assistant to the Chair	<b>UTT, HAROLD A., JR.</b> , Assistant Professor of Communicative Disorders
<b>STICKNEY, MARGARET</b> , Instructor	<b>SUNDARAM, KALPATHY B.</b> , Associate Professor of Engineering Science	(1970), B.A., M.A., Ph.D. (University of Tennessee)	(2000), B.A., M.B.A., M.S.S.T., Ed.D. (University of Central Florida)	(1981), M.S., Ph.D. (Florida State University)
(2003), Ed. D. (University of Central Florida)	(1987), B.S., B.E., M.T., Ph.D. (Indian Institute of Technology, Bombay)	<b>TAYLOR, JAMES</b> , Professor of Engineering	<b>TORBERT, TERRY</b> , Visiting Instructor of Education	<b>VAIDYNATHAN, RAJAN</b> , Assistant Professor of Engineering
<b>STOCKDALE, NANCY</b> , Assistant Professor of History	<b>SUNG, STELLA</b> , Professor of Music	(1977), B.S.I.E., M.S., Ph.D. (University of Florida), P.E. (Florida)	(1999), B.A.E., M.Ed. (University of Florida)	(2001), B.S., M.S., PhD (MIT)
(2001), B.A., M.A., Ph.D. (University of California- Santa Barbara)	(1991), B.A., M.F.A., D.M.A. (University of Texas at Austin)	<b>TAYLOR, ROSEMARYE</b> , Assistant Professor of Education	<b>TOVBIS, ALEXANDER</b> , Associate Professor of Mathematics	<b>VAJRAVELU, KUPPALA-PALLE</b> , Professor of Mathematics and Mechanical and Aerospace Engineering
<b>STOECKL, ULA</b> , Associate Professor of Film	<b>SURETTE, RAYMOND B.</b> , Professor of Criminal Justice	(2000), B.A., M.Ed., Ed.S., Ph.D. (Georgia State University)	(1996), M.S., Ph.D. (University of Voronezh)	

- (1984), B.A., M.S., Ph.D.  
(Indian Institute of Technology)
- VAJRAVELU, RANI**, Instructor of Biology
- (1999), B.S., M.S., Ph.D.  
(University of Madras)
- VAN HOOK, MARY P.**, Professor of Social Work
- (1995), B.A., M.S., Ph.D.  
(Rutgers University)
- VAN SLYKE, CRAIG**, Assistant Professor of Management Information Systems
- (2000), B.A., MBA, Ph.D.  
(Texas A&M University)
- VAN WAGENEN, STERLING**, Director and Associate Professor of Film
- (1999), B.A. (Brigham Young University)
- VAN WART, MONTGOMERY**, Chair, Professor
- (2003), Ph.D., PA (Texas Tech University) (Arizona State University)
- VANRYCKEGHEM, MARTINE**, Associate Professor of Communicative Disorders
- (1994), B.S., M.S., Ph.D.  
(Southern Illinois University)
- VAUGHEN, DANIEL R.**, Instructor of Business Law
- (1999), B.A., L.L.B. (University of Pennsylvania)
- VEIT, MARCIA R.**, Instructor of Accounting
- (1980), B.A., M.B.A.  
(University of Arkansas)
- VEMULAPATI, UDAYA**, Lecturer of Computer Science
- (1990), B.S., Ph.D.  
(Pennsylvania State University)
- VENTRE, GERARD G.**, Associate Professor of Engineering
- (1969), As.E., M.S., Ph.D.  
(University of Cincinnati), P.E. (Florida)
- VERKLER, KAREN W.**, Assistant Professor of Education
- (1995), B.A., M.Ed., Ph.D.  
(University of Florida)
- VERNON, BRIAN**, Associate Professor of Theatre
- (1994), B.F.A., M.F.A.  
(University of Arts, Philadelphia)
- VIGGIANO, CHARLES A.**, Visiting Instructor of Management
- (2001), B.S., M.B.A. (University of Central Florida)
- VIGGIANO, RACHEL G.**, Assistant University Librarian
- (2002), B.A., M.A.L.I.S.  
(University of South Florida)
- VILLANUEVA-GHELFA, CELESTINO A.**, Assistant Professor of Modern languages and Literatures
- (1999), B.A., M.A., Ph.D.  
(Florida International University)
- VITANOVA, GERGANA**, Assistant Professor, TESOL and Modern languages and Literatures
- (2003), B.A., M.A., Ph.D.  
(University of Cincinnati)
- VITTES, M. ELLIOT**, Director of Liberal Studies and Associate Professor of Political Science
- (1983), B.A., M.A., Ph.D.  
(University of Massachusetts)
- von KALM, LAURENCE H.**, Associate Professor of Biology
- (1996), B.S., Ph.D. (Monash University, Australia)
- WAGNER, MARJORIE J.**, Visiting Instructor of Communication
- (2003), B.A., M.S. (Murray State University)
- WAGNER, ROBERT**, Instructor
- (2003), Masters of Physical Therapy (Hahnemann University)
- WAHID, PARVEEN F.**, Professor of Engineering Science
- (1984), B.S., M.S., Ph.D.  
(Indian Institute of Science, Bangalore)
- WALKER, BONNIE J.**, Instructor in Psychology
- (2003), B.A., M.A., Ph.D.  
(Bowling Green State University)
- WALKER, EZEKIEL A.**, Assistant Professor of History
- (1998), B.A., M.A., Ph.D.  
(Michigan State University)
- WALLACE, DAVID L.**, Professor of English
- (2002), B.A., M.A., Ph.D.  
(Carnegie Mellon University)
- WALLACE, RONALD L.**, Professor of Anthropology
- (1975), B.A., M.A., Ph.D.  
(University of Florida)
- WALLACE, TARY**, Assistant Professor of Education
- (2002), B.S., M.Ed., Ph.D.  
(University of South Florida)
- WALSH, ANTHONY**, Clinical Faculty, Medical Laboratory Sciences, Ph.D.,  
(University of Florida)
- WALTERS, LINDA J.**, Associate Professor of Biology
- (1996), B.S., M.S., Ph.D.  
(University of South Carolina)
- WALTERS, LORI C.**, Visiting Assistant Professor of History
- (1999), B.A., M.A., Ph.D.  
(Florida State University)
- WAN, THOMAS**, Professor and Director, Doctoral Program in Public Affairs
- (2003), Ph.D. (University of Georgia)
- WANG, ABRAHAM**, Associate Professor of Engineering
- (2003), B.S., M.S., Ph.D (Peking University)
- WANG, ALVIN Y.**, Professor of Psychology and Associate Dean, Burnett Honors College
- (1987), B.A., Ph.D. (State University of New York at Stony Brook)
- WANG, MORGAN CHUNG-CHING**, Professor of Statistics
- (1991), B.S., M.S., Ph.D. (Iowa State University)
- WANG, XIAO HU**, Assistant Professor of Public Administration
- (1997), B.A., M.A., Ph.D.  
(Florida International University)
- WANIELISTA, MARTIN P.**, Professor of Engineering
- (1970), B.S.C.E., M.S., Ph.D.  
(Cornell University), P.E. (Florida)
- WARD, JEANNETTE A.**, Head, Acquisitions Services Department and University Librarian
- (1984), B.S., M.L.S. (Rutgers University)
- WARE, DEBORAH**, Visiting Instructor of Education
- (2001), B.S., MAT (Livingston University)
- WARFIELD, SCOTT**, Assistant Professor of Music
- (2002), Ph.D. (University of North Carolina at Chapel Hill)
- WATERMAN, JANE M.**, Assistant Professor of Biology
- (2000), B.S., M.Sc., Ph.D.  
(University of Minnesota)
- WATKINS, R. CORY**, Assistant Professor of Criminal Justice
- (1998), B.S., M.S., Ph.D.  
(University of Cincinnati)
- WATSON, STEPHEN M.**, Assistant Research Professor, Florida Space Institute
- (2003), Ph.D (University of Nottingham)
- WAYSON, ROGER L.**, Professor of Engineering
- (1990), B.E.S., M.S., Ph.D.  
(Vanderbilt), P.E. (Florida, Tennessee, Texas)
- WEAVER, DEBORAH**, Instructor of English
- (2004), B.A., M.A. (University of Central Florida)
- WEAVER, EARL**, Assistant Professor
- (2003), M.F.A. (University of North Carolina)
- WEAVER, WILLIAM C.**, Associate Professor in Finance
- (1990), B.S., M.B.A., Ph.D.  
(Georgia State University)
- WEBB, JACK L.**, Associate University Librarian
- (1993), B.A., M.L.S. (Emporia State University)
- WEEKS, ARTHUR**, Associate Professor of Engineering
- (2003), B.S., M.S., Ph.D.  
(University of Central Florida)
- WEI, L.**, Associate Professor of Engineering
- (2001), B.S., M.S., PhD  
(University of South Australia)
- WEISHAMPEL, JOHN**, Associate Professor of Biology
- (1995), B.S., M.A., Ph.D.  
(University of Virginia)
- WELCH, JUDITH K.**, Associate Professor of Accounting
- (1988), B.A., M.B.A., Ph.D.  
(Florida State University)
- WELKER, PATRICIA E.**, Instructor of Health Sciences (Radiologic Sciences)
- (1986), A.S., B.S., M.A. (Idaho State University)
- WEREMCHUK, GEORGE**, Assistant Professor of Music
- (1998), D.M.A. (University of Miami)
- WEST, GAIL B.**, Associate Professor of Education
- (1991), B.A., M.A., Ph.D.  
(Florida State University)
- WEST, LAWRENCE**, Assistant Professor of Management
- (1996), B.A., M.B.A., Ph.D.  
(Texas A&M University)
- WHANG, YUN-OH**, Assistant Professor of Marketing
- (2001), B.S., M.S., M.B.A., Ph.D (University of Southern California)
- WHITE, KENNETH**, Associate Professor of Economics
- (1968), B.S., M.B.A., Ph.D.  
(University of Oklahoma)
- WHITE, ROSEANN S.**, Assistant Chair/Professor of Molecular Biology and Microbiology
- (1969), B.S., Ph.D. (University of Texas)
- WHITE, VIBERT L.**, Associate Professor of History
- (2003), B.A., M.A., Ph.D. (Ohio State University)
- WHITEHOUSE, GARY E.**, Professor of Engineering
- (1978), B.S.I.E., M.S.I.E., Ph.D.  
(Arizona State University), P.E. (Florida, Pennsylvania)
- WHITESIDE, JANET**, Instructor of Communicative Disorders
- (2001), B.A., M.A., Ph.D.  
(Indiana University)
- WHITTEN, SHANNON, N.**, Visiting Instructor in Psychology
- (2003), B.A., M.S., Ph.D.  
(University of Memphis)
- WHYTE, ANN MARIE**, Associate Professor of Finance
- (1998), B.B.A., M.B.A., Ph.D.  
(Florida Atlantic University)
- WIENKE, CHERYL**, Instructor of Education
- (1999), B.A., M.A. (University of Northern Colorado)
- WIENKE, WILFRED**, Chair and Professor of Education
- (1998), B.S., M.S., Ed.D.  
(University of Northern Colorado)
- WILLIAMS, JEFFREY**, Visiting Instructor of Management
- (1998), B.S., M.B.A. (University of Bridgeport)
- WILLIAMS, KARRI J. FJELD-HEIM**, Associate Professor of Education
- (1984), B.S., M.Ed., Ph.D.  
(University of Arizona)
- WILLIAMS, KENT E.**, Associate Professor of Engineering
- (1976), B.A., M.A., Ph.D.  
(University of Connecticut)
- WILLIAMS, ROBERT**, Chair and Professor of Education
- (2001), B.S., M.A., Ed.D. (Nova Southeastern University)
- WILSON, BRUCE M.**, Associate Professor of Political Science
- (1998), B.A., M.A., Ph.D.  
(Washington University, St. Louis)
- WILTON, MARK A.**, Instructor of Criminal Justice
- (2001), B.A., M.A. Sociology, M.A. Counseling, Ph.D.  
(University of Connecticut)
- WINK, DIANE M.**, Professor of Nursing
- (1987), F.N.P., A.R.N.P., Ed.D.  
(University of Central Florida)
- WINNINGHAM, THOMAS A.**, Assistant Professor
- (2002), Ph.D. (University of Colorado)
- WINTERS, DREW**, Associate Professor of Finance
- (1998), B.S., M.B.A., Ph.D.  
(University of Georgia)
- WIRTH, JEFFREY**, Visiting Professor of Film
- (1997), B.F.A., M.F.A. (Pacific Western University)
- WITTA, ELEANOR L.**, Associate Professor of Education
- (1999), A.B., MEDCI, Ph.D.  
(Virginia Polytechnic Institute)
- WOLF, MILTON T.**, Head, Collection Management and University Librarian
- (2003), A.B., A.M.L.S.  
(University of Michigan)
- WOLF, ROSS A.**, Instructor of Criminal Justice
- (1999), B.A., M.P.A., Ed.D.  
(University of Central Florida)
- WOOD, ALEXANDER T.**, Associate Professor of Education
- (1969), B.A., M.S., Ph.D.  
(Florida State University)
- WOOD, ROBERT**, Asst. Professor
- (2003), JD (GA State University College of Law)
- WOODNEY, LAURA**, Assistant

## Faculty and Administration Emeriti

- Professor  
(2003), Ph.D. (University of Maryland)
- WOOTEN, WILLIAM**, Associate Professor of Psychology  
(1985), B.A., M.S., Ph.D. (Memphis State University)
- WORKMAN, DAVID A.**, Associate Professor of Computer Science  
(1976), B.S., M.S., Ph.D. (University of Iowa)
- WORKMAN, KARISA K.**, Instructor of Communication  
(1999), B.A., M.A. (Southern Nazarene University)
- WORRELL, L. TIMOTHY**, Associate Professor of Health Sciences and Director, Cardiopulmonary Sciences Program  
(1976), R.R.T., B.S., M.P.H. (University of Central Florida)
- WORTHY, GRAHAM A. J.**, Provost Distinguished Research Professor and Professor of Biology  
(2001), B.S., M.S., Ph.D. (University of Guelph, Canada)
- WRIGHT, JAMES D.**, Provost Distinguished Research Professor and Professor of Sociology  
(2001), B.A., M.S., Ph.D. (University of Wisconsin)
- WU, ANNIE S.**, Assistant Professor of Computer Science  
(1999), B.S.E., M.S.E., Ph.D. (University of Michigan)
- WU, SHIN-TSON**, Associate Professor, College of Optics and Photonics: CREOL and FPCE  
(2004), Ph.D. (University of Southern California)
- WU, THOMAS X.**, Assistant Professor of EE  
(1999), B.S., M.S., Ph.D. (University of Pennsylvania)
- WUEHRMANN, NICHOLAS**, Visiting Assistant Professor  
(2004), M.M. (Kent State University)
- WYATT, MARY E.**, Assistant Professor  
(1999), B.D.A.E., M.F.A. (Florida State University)
- XANDER, JAMES A.**, Associate Professor of Economics  
(1969), B.S., Ph.D. (University of Georgia)
- XU, FANG**, Assistant Professor of Engineering  
(2001), B.S., M.S., Ph.D. (University of Michigan)
- YEARWOOD, GLADSTONE**, Professor of Film  
(1997), B.F.A., M.A., Ph.D. (Ohio University)
- YEH, GOUR-TSYH**, Professor of Engineering  
(2000), B.S., M.S., Ph.D. (Cornell University), P.E. (New York, Massachusetts, California, Tennessee, Pennsylvania)
- YONETANI, AYAKO**, Associate Professor of Music  
(1993), B.M., M.M., D.M.A. (Juilliard School of Music)
- YONG, JIONGMIN**, Professor of Mathematics  
(2003), Ph.D. (Purdue University)
- YOON, KANGHYUN**, Assistant Professor of Marketing  
(2003), B.B.A., M.S., MBA, Ph.D. (University of Wisconsin-Milwaukee)
- YOON, YOUNGMIN**, Assistant Professor of Communication  
(2004), B.A., M.A., Ph.D. (Syracuse University)
- YOU, HUAXIN**, Assistant Professor  
(2002), B.S., M.S., Ph.D. (University of California, Santa Barbara)
- YOUNG, BETH RAPP**, Associate Professor of English  
(1997), B.A., M.A., Ph.D. (University of Southern California)
- YOUNG, CYNTHIA**, Assistant Professor of Mathematics and Florida Space Institute  
(1997), B.A., M.S., Ph.D. (University of Washington)
- YOUNG, DAVID O.**, Instructor of Communication  
(2002), B.A., M.F.A. (University of California)
- YOUNG, MARK**, Professor of Education  
(1999), B.A., M.S., Ph.D. (Miami University)
- YUAN, JIANN S.**, Professor of Engineering  
(1989), B.S.E., M.S.E., Ph.D. (University of Florida)
- ZERVOS, TONY**, Associate Professor of Molecular Biology and Microbiology  
(1999), B.S., Ph.D. (University of London)
- ZHANG, HONG**, Assistant Professor of History  
(1996), B.A., M.A., Ph.D. (University of Arizona)
- ZHANG, YING**, Assistant Librarian  
(1996), B.A., M.A.L.I.S. (University of South Florida)
- ZHAO, LEI**, Assistant Professor of Engineering  
(2002), B.S., M.S., Ph.D. (UC San Diego)
- ZHAO, YUE**, Assistant Professor of Mathematics  
(1999), B.S., M.S., Ph.D. (Ohio State University)
- ZHOU, HUITANG**, Professor of Computer Science  
(2003), B.S., M.S., Ph.D. (North Carolina State University)
- ZHU, MICHAEL, X.**, Associate Professor  
(2002), Ph.D., (University of Houston, TX)
- ZORN, ELAYNE**, Associate Professor of Anthropology  
(1998), B.F.A., M.A., Ph.D. (Cornell University)
- ZYGOURIS-COE, VICKY**, Assistant Professor of Education  
(1999), B.S., M.A. Ed.D. (University of London)

## FACULTY AND ADMINISTRATION EMERITI

- ADICKS, RICHARD R.**, Professor Emeritus of English  
(1968), B.A.E., M.A., Ph.D. (Tulane University)
- ANDERSON, BETTY**, Professor Emeritus of Education  
(1968), B.A., M.A., Ed.D. (University of Maryland)
- ANDERSON, HENRY, R.**, Professor Emeritus of Accounting  
(1983), B.A., M.S., Ph.D. (University of Missouri-Columbia)
- BAKER, GRAEME L.**, Professor Emeritus of Chemistry  
(1968), B.S., M.S., Ph.D. (Montana State University)
- BERGNER JR., JOHN F.**, Professor Emeritus of Health Professions  
(1975), B.S., M.S.P.H., M.P.H., N.H.A., Ph.D. (University of Maryland)
- BIEGEL, JOHN E.**, Professor Emeritus of Engineering  
(1982), B.S.I.E., M.S.E.S., Ph.D. (Syracuse University), P.E. (Florida)
- BLEDSON, ROBERT L.**, Professor of Political Science  
(1968), B.A., M.A., Ph.D. (University of Florida)
- BOLTE, JOHN R.**, Vice President Emeritus for Administration and Finance  
(1968), B.A., M.A., M.S., Ph.D. (State University of Iowa)
- BRENNAN, JOHN J.**, Professor Emeritus of Physics  
(1968), B.S., M.S., Ph.D. (Georgia Institute of Technology)
- BRIGHAM, ROBERT C.**, Professor of Mathematics and Computer Science  
(1970), B.S., M.S., Ph.D. (New York University)
- BROWN, WILLIAM R.**, Professor Emeritus of Sociology  
(1972), B.S., M.S., Ph.D. (Purdue University)
- BRUMBAUGH, DOUGLAS K.**, Professor Emeritus of Education  
(1969), B.S., M.Ed., Ed.D. (University of Georgia)
- BURROUGHS, WAYNE A.**, Professor Emeritus of Psychology  
(1969), B.A., M.A., Ph.D. (University of Tennessee)
- CARROLL, WILLIAM F.**, Professor Emeritus of Engineering  
(1985), B.S., M.S., Ph.D. (University of Illinois), P.E. (California, Florida and Illinois)
- COLBOURN, TREVOR**, President Emeritus, Professor of History, and Special Assistant to the UCF Foundation Chief Executive Officer  
(1978), B.A., A.M., M.A., Ph.D. (Johns Hopkins University)
- COMISH, NEWEL W.**, Professor Emeritus of Management  
(1968), B.S., M.S., Ph.D. (Ohio State University)
- CUNNINGHAM, GLENN N.**, Professor Emeritus of Chemistry  
(1969), B.S., M.S., Ph.D. (North Carolina State University)
- DEL-RIO, MARCELA**, Professor Emeritus of Foreign Languages and Literatures  
(1990), B.A., M.A., Ph.D. (University of California-Irvine)
- DENNING, RICHARD G.**, Professor Emeritus of Engineering Technology  
(1976), B.M.E., M.S., Ed.D. (University of Georgia), P.E. (Florida, Georgia)
- DUTTON, ARTHUR M.**, Professor Emeritus of Statistics  
(1968), B.S., Ph.D. (Iowa State University)
- EHRHART, LLEWELLYN M.**, Pegasus Professor and Professor Emeritus of Biology  
(1969), A.B., Ph.D. (Cornell University)
- ELLIS, LESLIE L.**, Professor Emeritus of Biology  
(1968), B.S., M.S., Ph.D. (University of Oklahoma)
- ERICKSON, ERNEST E.**, Professor Emeritus of Engineering  
(1969), B.E.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)
- ESLER, WILLIAM K.**, Professor Emeritus of Education  
(1968), B.A.Ed., M.A.Ed., Ph.D. (Kent State University)
- FLICK, ROBERT G.**, Professor Emeritus of Humanities  
(1968), B.S., M.A., Ph.D. (University of Florida)
- GRIFFITH, HAROLD L.**, Professor Emeritus of Engineering Technology  
(1972), B.S., M.S. (Pennsylvania State University), P.E. (Florida)
- HALL, HARRY O.**, Professor Emeritus of Education  
(1967), B.A., M.Ed., Ed.D. (University of Florida)
- HEDRICK, DONA LEA**, Professor Emeritus of Communicative Disorders  
(1981), B.A., M.A., Ph.D. (University of Washington)
- HUBLER, J. W.**, Professor Emeritus of Engineering Technology  
(1967), B.S.C.E., C.E., M.S.E., M.S.C.E. (Yale University), D.Eng. S. (Hon.) (University of Central Florida), P.E. (Florida and 18 other states)
- JENKINS, DAVID R.**, Professor Emeritus of Engineering  
(1969), B.S.C.E., M.S.E.M., Ph.D. (University of Michigan), P.E. (Ohio, Florida)
- JONES, HALSEY R., JR.**, Professor of Management  
(1982), B.A., M.S., Ph.D. (Pennsylvania State University)
- JUGE, FRANK E.**, Professor Emeritus of Chemistry  
(1968), B.S., Ph.D. (University of Arkansas)
- KERSTEN, ROBERT D.**, Dean Emeritus and Professor Emeritus of Engineering  
(1968), B.S., M.S., Ph.D. (Northwestern University), P.E. (Florida, Arizona, and Oklahoma)
- KOEVENIG, JAMES L.**, Professor Emeritus of Biology  
(1971), B.A., M.A., Ph.D. (University of Iowa)
- LILIE, STUART A.**, Associate Professor of Political Science  
(1972), B.A., Ph.D. (Johns Hopkins University)
- MATTSON, GUY C.**, Professor Emeritus of Chemistry  
(1969), B.S., Ph.D. (University of Florida)
- McGEE, WILLIAM W.**, Professor Emeritus of Forensic Science  
(1968), B.S., M.S., Ph.D. (University of Florida)
- MCLELLON, WALDRON M.**, Professor Emeritus of Engineering  
(1969), B.S., B.C.E., M.C.E., M.S. (Physics), M.S. (Env. Engr.), Ph.D. (Rensselaer Polytechnic Institute)
- MICARELLI, CHARLES N.**,

Dean and Professor Emeritus of Foreign Languages and Literatures  
(1967), B.A., M.A., Ph.D. (Boston University)

**MILLER, CALVIN C.**, Dean and Professor Emeritus of Education  
(1967), B.A., M.Ed., Ed.D. (Florida State University)

**MILLER, ERNEST E.**, Professor Emeritus of Education  
(1968), B.S., M.S., Ed.D. (University of North Dakota)

**MILLICAN, CHARLES N.**, President Emeritus and Professor of Finance  
(1965), B.S., M.A., Ph.D. (University of Florida)

**OMANS, STUART E.**, Professor of English  
(1968), B.A., M.A., Ph.D. (Northwestern University)

**OSTLE, BERNARD**, Professor Emeritus of Statistics  
(1967), B.A., M.A., Ph.D. (Iowa State University)

**PAUL, GORDON W.**, Professor Emeritus of Marketing  
(1977), B.S., M.B.A., Ph.D. (Michigan State University)

**REIFF, WALLACE W.**, Professor Emeritus of Finance  
(1970), B.S., M.A., M.B.A., D.B.A. (Indiana University)

**ROLLINS, JACK B.**, Professor Emeritus of Psychology  
(1969), B.S., M.S., Ph.D. (University of Georgia)

**SALTER, JOHN H. III**, Chairholder, Ernst & Young Professorship and Professor Emeritus of Accounting  
(1975), B.S., M.S., Ph.D. (Louisiana State University)

**SCHIFFHORST, GERALD J.**, Professor of English  
(1970), B.S., M.A., Ph.D. (Washington University)

**SCHRAEDER, GEORGE F.**, Professor Emeritus of Engineering  
(1969), B.S., M.S., Ph.D. (University of Illinois), P.E. (Florida, Illinois)

**SHERWOOD, HOWARD**, Professor Emeritus of Mathematics  
(1969), B.S., M.S., Ph.D. (University of Arizona)

**SHOFNER, JERRELL H.**, Professor Emeritus of History  
(1972), B.S., M.S., Ph.D. (Florida State University)

**SILFVAST, WILLIAM**, Professor Emeritus of Physics  
(1990), B.S., Ph.D. (University of Utah)

**SMITH, HARRY W., JR.**, Professor Emeritus of Theatre  
(1969), B.A., M.A., Ph.D.

(Tulane University)

**SOMERVILLE, PAUL N.**, Professor Emeritus of Statistics  
(1972), B.Sc., Ph.D. (University of North Carolina)

**TAYLOR, MICHAEL D.**, Professor of Mathematics  
(1968), B.A., M.S., Ph.D. (Florida State University)

**TAYLOR, WALTER K.**, Professor Emeritus of Biology  
(1969), B.S., M.S., Ph.D. (Arizona State University)

**TESORI, ANTHONY P.**, Professor Emeritus of Education and Director Brevard Campus  
(1970), B.S., M.A., Ed.D. (New York University)

**WALKER, LYNN W.**, Director Emeritus of Libraries  
(1967), B.A., M.A. (Florida State University)

**WRIGHT, BURTON**, Professor Emeritus of Sociology  
(1970), B.S., M.S., Ph.D. (Florida State University)

**YAROSH, MARVIN M.**, Associate Director Emeritus of the Florida Solar Energy Center  
(1975), B.S., M.S. (University of Minnesota)

**YOUSEF, YOUSEF A.**, Professor Emeritus of Engineering  
(1970), B.S.C.E., M.S., Ph.D. (University of Texas), P.E. (Florida, Texas)

## COURTESY APPOINTMENTS

**ADAMS, KENNETH**, Secondary Joint Associate Professor of Criminal Justice and Legal Studies  
(2004), Ph.D (State University of New York at Albany)

**BASS, MICHAEL**, Professor of Optics  
(1988), B.S., M.S., Ph.D. (University of Michigan)

**BAUSHER, MICHAEL G.**, Research Associate of Molecular Biology and Microbiology  
B.S., M.S., Ph.D. (University of Florida)

**BEACH, KEVIN**, Assistant Research Professor of Biology  
(2001), B.S., Ph.D. (University of Hawaii at Manoa)

**BELFIELD, KEVIN D.**, Secondary Joint Professor of Optics and Photonics: CREOL & FPCE  
(2004), B.S., Ph.D. (Syracuse University)

**BETTINGER, TAMARA**, Assistant Professor of Biology

(2003), (Oklahoma State University)

**BILLINGS, JOSEPH B.**, Clinical Faculty, Athletic Training  
D.O. (Philadelphia college of Osteopathic Medicine)

**BINDELL, JEFFREY B.**, Research Professor of Materials Science  
B.S., M.S., Ph.D. (Polytechnic Institute of Brooklyn)

**BONDAR, MYKHAILO**, Assistant Professor of Chemistry  
B.S., M.S., Ph.D. (Institute of Physics, Kiev, Ukraine)

**BOREMAN, GLENN**, Professor  
(1998), Ph.D. (University of Arizona)

**BRIGHAM, ROBERT C.**, Professor, Electrical Engr & Computer Science

**BRUNELL, MARY LOU**, Instructor, School of Nursing  
(1980), M.S.N. (University of Pennsylvania)

**CAPRAUN, LYNN W.**, Clinical Faculty, Cardiopulmonary Sciences  
RTT, B.S., M.S. (University of Central Florida)

**CARLSON, JOHN K.**, Research Assistant Professor of Biology  
(2003), (University of Mississippi)

**CHAI, BRUCE**, Professor of Optics  
(1989), B.S., Ph.D. (Yale University)

**CHANDRA, SUBRATO**, Professor, Industrial Engineering  
(1998), M.S., Ph.D. (West Virginia University)

**CHITTICK, ELIZABETH**, Assistant Research Professor of Biology  
(2002), (Tufts University)

**CHOW, LOUIS C.**, Secondary Joint Professor of Optics & Photonics: CREOL & FPCE  
(2004), M.S., Ph.D. (University of California, Berkeley)

**COFFEY, KEVIN R.**, Associate Professor  
(2001), Ph.D. (Massachusetts Institute of Technology)

**COLE, ALEXANDER M.**, Assistant Professor, Biomolecular Science Ctr and Molecular Biology & Microbiology  
(2004), Ph.D. (Univ. of Medicine and Dentistry of NJ)

**COLUMBUS, GENE**, Department of Theatre

**COOK, CLAYTON B.**, Professor of Biology  
(2002), B.A., Ph.D. (Duke University)

**CRANIS, PETER**, Associate Faculty, School of Communication  
(2002), (University of Central Florida)

**DAS, TARA P.**, Professor of Physics  
(1999), Ph.D. (Calcutta University)

**De FREESE, DUANE**, Professor of Biology  
(2001), B.S., M.S., Ph.D. (Florida Institute of Technology)

**de LA ROSA, CARLOS L.**, Associate Professor of Biology  
(1998), B.S., Ph.D. (University of Pittsburgh)

**DEATON, JOHN**, Assistant Professor of Psychology  
(1994), B.A., M.A., Ph.D. (Catholic University of America, Washington, D.C.)

**DELIWALA, PALLAVI B.**, Clinical Faculty, School of Nursing  
(2002), (University of Bombay)

**DeLOACH, JR., BERNARD C.**, Professor, Electrical Engr & Computer Science  
B.S., M.S., Ph.D. (Ohio State University)

**DEMARA, RONALD F.**, Secondary Joint Associate Professor, School of Computer Science  
(2004), B.S., M.S., Ph.D. (University of Southern California)

**DEMPSEY-WALLS, SUSAN**, Courtesy Clinical Faculty, School of Nursing  
(2005), B.S.N., M.S.N. (University of California at Los Angeles)

**DEYRUP, MARK**, Assistant Professor of Biology  
(1994), B.S., M.S., Ph.D. (University of Washington)

**DHERE, NEELKANTH**, Research Professor of Mechanical Engineering  
(1990), B.S., M.S., Ph.D. (Poona, India)

**DRAKE, JASON**, Courtesy Research Assistant Professor of Biology  
(2004), B.S., M.S., Ph.D. (University of Maryland)

**DUCHARME, ALFRED**, Courtesy Assistant Professor of Optics and Photonics: CREOL & FPCE, 2005, B.S., E.E., Ph.D., University of Central Florida

**DUPRAS, TOSHA LEA**, Secondary Joint Assistant Professor of Biology  
(2003), B.A., M.S., Ph.D. (McMaster University)

**DZIEGIELOWSKI, SOPHIA F.**, Joint Appointment, Health Services Administration  
(1997), Ph.D., L.C.S.W. (Florida State University)

**EAGLIN, RONALD**, Joint Associate Professor, School of Film & Digital Media and Engr Technology  
(2003), B.S., M.S., Ph.D. (University of Central Florida)

**FALLUCCA-SCHNEIDER, LINDA**, Clinical Faculty, School of Nursing  
(2002), (Rush University)

**FLORY, DAVID**, Assistant Professor  
(2003), (University of North Carolina)

**FOROOSH, HASSAN**, Joint Assistant Professor, Electrical & Computer Engr and School of Computer Science  
(2004), Ph.D. (University of Nice)

**FRANKLIN, RAYMOND**, Clinical Faculty, MLS, Department of Molecular Biology and Microbiology  
M.D., Ph.D. (University of Texas)

**FRISTROM, JAMES W.**, Courtesy Research Professor of Biology  
(2004), B.A., Ph.D. (Rockefeller University)

**FULLERTON, STUART**, Biological Research Associate  
(1995), B.S. (University of Central Florida)

**FULTON III, ROLLAND**, Courtesy Associate Professor of Biology  
(2004), B.A., Ph.D. (Duke University)

**GAGNON, MAXIME**, Courtesy Research Associate in Public Affairs  
(2004), Ph.D. (Universite du Quebec a Trois-Rivieres)

**GARLAND, JAY**, Associate Research Professor of Biology  
(2002), B.S., M.S., Ph.D. (University of Virginia)

**GIBSON, JANE STRANDBURG**, Associate Professor and Research Associate, Department of Molecular Biology & Microbiology  
B.S., M.S., Ph.D. (University of Florida)

**GILLIARD, LAWRENCE M.**, Medical Director of Cardiopulmonary Sciences and Clinical Faculty  
M.D. (University of Miami)

**GOLDBERG, STEVEN**, Courtesy Associate Professor of Psychology; Chief, Orlando Field Unit, US Army Research Institute  
(1994), B.A., Ph.D. (State University of New York at Buffalo)

**GRIFFIS, SUSAN E.**, Clinical Faculty, School of Nursing  
(2002), (Creighton University)

**GUARDA, LUIS A.**, Courtesy

## UCF Courtesy Appointments

Professor, Medical Laboratory Sciences (2005), M.D. (University of Chile)	Microbiology (2004), M.S., Ph.D. (Russian Academy of Science, St. Petersburg Nuclear Physics Institute)	(2004), B.M.S., M.D. (Johns Hopkins University)	South Florida)	<b>SCHLEICHKORN, JACOB S.,</b> , Clinical Faculty, Physical Therapy Ph.D., P.T. (The Union Institute)
<b>HAGAN, DAVID J.</b> , Associate Professor of Optics (1987), B.S., Ph.D. (Heriott Watt University)	<b>KAPLAN, MICHAEL</b> , Professor of Psychology Ph.D. (Columbia University)	<b>MARTIN, LAWRENCE</b> , Professor, Public Administration and Public Affairs (2004), Ph.D. (Arizona State University)	<b>ONIK, GARY M.</b> , Clinical Faculty, Physical Therapy M.D. (New York Medical College)	<b>SCHULTE, ALFONS</b> , Secondary Joint Associate Professor of Optics & Photonics: CREOL & FPCE (2004), Dr. rer. nat. (Technische Universitaet Munich)
<b>HEINONEN, OLLE</b> , Associate Professor of Physics (1989), B.S., Ph.D. (Case Western Reserve University)	<b>KAPOOR, VIKRAM</b> , Courtesy Professor of Electrical & Computer Engineering (2004), Ph.D (Lehigh University)	<b>MAY, JONATHAN</b> , Faculty Associate in Music (2002), (University of Washington)	<b>PEALE, ROBERT E.</b> , Secondary Joint Professor of Optics & Photonics: CREOL & FPCE (2004), B.A., M.S., Ph.D. (Cornell University)	<b>SELF, WILLIAM</b> , Assistant Professor, Biomolecular Science Ctr and Molecular Biology & Microbiology (2004), Ph.D. (University of Florida)
<b>HENDERSON, MOYA</b> , Courtesy Visiting Artist, School of Film & Digital Media (2003), (University of Queensland)	<b>KAR, ARAVINDA</b> , Secondary Joint Associate Professor of Electrical and Computer Engineering, 2005, B.S., M.S., Ph.D., University of Illinois at Urbana-Champaign	<b>McHALE, MICHAEL</b> , Courtesy Clinical Faculty, School of Nursing (2002), (Philadelphia College of Osteopathic Medicine)	<b>PHILLIPS, RONALD L.</b> , Secondary Joint Professor of Optics & Photonics: CREOL & FPCE (2004), B.S.E., M.S.E., M.A., Ph.D. (Arizona State University)	<b>SELLAR, GLENN</b> , Courtesy Research Scientist of Physics (2003), Ph.D. (University of Central Florida)
<b>HERBST, LAWRENCE</b> , Assistant Research Professor of Biology (2002), B.A., M.S., D.V.M., Ph.D. (University of Florida)	<b>KENNEDY, ROBERT S.</b> , Professor of Psychology B.A., M.A., Ph.D. (University of Rochester)	<b>McNEES, PATRICK</b> , Courtesy Faculty Associate, School of Nursing (2002) and Courtesy Senior Research Associate in Public Affairs (2005), B.S., M.A., Ph.D. (University of Kansas)	<b>PICOU, STEVEN</b> , Courtesy Professor of Sociology (2004), Ph.D. (Louisiana State University)	<b>SHUGAN, STEVE</b> , Professor, Marketing (2003), (Northwestern University)
<b>HERNANDEZ, FLORENCIO E.</b> , Secondary Joint Assistant Professor of Optics & Photonics: CREOL & FPCE (2004), B.S., Ph.D. (Universidad de Venezuela)	<b>KIM, GILSUNG</b> , Courtesy Appointment: Department of Finance (2003), (Yosu University, Korea)	<b>McPHERSON, BRENDA</b> , Faculty Associate, Educational Studies	<b>POLIFKO-HARRIS, KARIN</b> , Faculty Associate, School of Nursing (2002), (Old Dominion)	<b>SHUMAKER, RANDALL P.</b> , Secondary Joint Professor of Electrical & Computer Engineering (2004), Ph.D. (University of Pennsylvania)
<b>HICKEY, MICHAEL H.</b> , Courtesy Associate Professor of Physics (2003), Ph.D. (La Trobe University)	<b>KINCAID, J. PETER</b> , Professor of Psychology B.A., M.A., Ph.D. (Ohio State University)	<b>MEDIN, A. LOUIS</b> , Professor of Engineering Ph.D. (Ohio State University)	<b>PRITCHARD, PETER C. H.</b> , Professor of Biology (1994), B.A., M.A., Ph.D. (University of Florida)	<b>SIDERS, CRAIG</b> , Assistant Professor (2000), Ph.D. (University of Texas at Austin)
<b>HICKMAN, JAMES</b> , Secondary Joint Professor of Electrical and Computer Engineering (2004), B.S., M.S., Ph.D. (Massachusetts Institute of Technology)	<b>KURJACK, EDWARD</b> , Department of Sociology & Anthropology (2001), Ph.D. (Ohio State University)	<b>MELLEN, JILL</b> , Assistant Research Professor of Biology (1999), B.S., M.S., Ph.D. (University of California, Davis)	<b>PRITCHARD, ROBERT D.</b> , Professor, Management and Psychology (2003), Ph.D. (University of Minnesota)	<b>SINGER, MICHAEL JAMES</b> , Courtesy Faculty Associate, Psychology B.A., M.S., Ph.D. (University of Maryland)
<b>HIGBEE, RUSSELL</b> , Courtesy Assistant Professor of Molecular Biology and Microbiology (2004), B.S., M.S., Ph.D, D.V.M. (Oklahoma State University)	<b>LEHMAN, JEFFREY</b> , Clinical Professor in Communicative Disorders (2003), (University of Wisconsin)	<b>MENGES, ERIC</b> , Assistant Professor of Biology (1994), B.S., M.S., Ph.D. (University of Wisconsin)	<b>RAMANLAL, PRADIPKUMAR</b> , Associate Professor, Latin American Area Studies and Finance (2003), Ph.D. (University of Michigan)	<b>SLIFKO, THERESA</b> , Courtesy Assistant Professor of Molecular Biology and Microbiology (2004), B., M.S., Ph.D. (University of South Florida)
<b>HOBART, JAMES</b> , Associate Faculty, School of Communication (2002), (University of Central Florida)	<b>LELI, DANO</b> , Faculty Associate, Psychology B.A., M.S., Ph.D. (University of South Florida)	<b>MERCURI, KEVIN</b> , Adjunct Clinical Professor, Health Science	<b>REBURN, CATHARINE JEAN</b> , Assistant Research Professor of Biology (2002), BSCH, MSC, Ph.D. (Queen's University)	<b>SOLTIS, JOSEPH</b> , Courtesy Research Assistant Professor of Biology (2004), B.A., M.A., Ph.D. (University of California, Los Angeles)
<b>HOLSENBECK, DANIEL</b> , Associate Faculty, School of Communication (1985), Ph.D. (Florida State University)	<b>LI, GUIFANG</b> , Associate Professor of Optics (1997), B.S., M.S., Ph.D. (University of Wisconsin-Madison)	<b>MORRIS, LORI JEDLICA</b> , Courtesy Research Associate Professor of Biology (2004), B.S., M.S. (College of William and Mary)	<b>REDFOOT, WILLIAM</b> , Research Associate in Biology (1999), B.A., M.A., M.S. (University of Central Florida)	<b>STAMPER, MICHAEL</b> , Assistant Research Professor of Biology (2002), B.S., D.V.M. (Purdue University)
<b>HUGHES, CHARLES</b> , Joint Appointment, Professor, School of Film & Digital Media and School of Electrical Engr & Computer Sci (2003), Ph.D. (Penn State University)	<b>LILIE, JOYCE R.</b> , Associate Professor of Political Science (1985), B.A., M.A., Ph.D. (Johns Hopkins University)	<b>MOSHELL, MICHAEL</b> , Professor, School of Electrical Engr & Computer Science (Ohio State University)	<b>REECE, DOUGLAS A.</b> , Assistant Professor of Computer Science B.S., M.S., Ph.D. (Carnegie Mellon University)	<b>STERN, JONATHAN S</b> , Assistant Professor of Biology (2002), B.A., M.A., Ph.D. (Texas A&M)
<b>IRWIN, RICHARD B.</b> , Research Professor of Materials Science B.S., M.S., Ph.D. (University of Pittsburgh)	<b>LONGLEY, ROSS E.</b> , Research Associate of Molecular Biology and Microbiology B.S., M.S., Ph.D. (University of Oklahoma)	<b>NEMETHY, MARGARET</b> , Clinical Faculty, School of Nursing (2002), (University of Florida)	<b>RICHARDSON, MARTIN</b> , Professor of Optics (1990), B.S.C., A.R.C.S., Ph.D. (University of London)	<b>STEVIE, FREDERICK A.</b> , Research Professor of Materials Science A.B., M.S. (Vanderbilt University)
<b>JEDLICA MORRIS, LORI</b> , Courtesy Research Associate Professor (2004),	<b>LOUGHNER, BARRY A.</b> , Clinical Faculty, Health Services Administration D.D.S., M.S., Ph.D. (University of Florida)	<b>NICHOLS, JAMES</b> , Courtesy Professor of Biology (2004), B.S., M.S., Ph.D. (Michigan State University)	<b>ROSOFF, SUSAN M.</b> , Courtesy Assistant Professor of Art B.A., M.A. (Vermont College)	<b>STONE, DIANNA L.</b> , Professor of Psychology and Management (2003), B.A., Ph.D. (Purdue University)
<b>KACHURIN, ANATOLY</b> , Courtesy Assistant Professor of Molecular Biology and	<b>LU, YOU MING</b> , Secondary Joint Associate Professor of Molecular Biology and Microbiology, 2004, Ph.D., M.Sc., M.D., University of Toronto, Toronto, Canada	<b>ODELL, DANIEL KEITH</b> , Professor of Biology (1994), B.S., M.A., Ph.D. (University of California, Los Angeles)	<b>SAFRANEK, WILLIAM</b> , Clinical Faculty, MLS, Department of Molecular Biology and Microbiology Ph.D. (Temple University)	<b>STONE-ROMERO, EUGENE F.</b> , Professor, Management and Psychology
	<b>MARCH, ALLAN W.</b> , Courtesy Senior Research Associate in Public Affairs (2004), B.M.S., M.D. (Johns Hopkins University)	<b>OGDEN, JACQUELINE J.</b> , Assistant Research Professor of Biology (1999), B.A., M.S., Ph.D. (Georgia Institute of Technology)	<b>SCALLIN-PEREZ, JENNIFER</b> , Adjunct Clinical Professor, Health Science	
		<b>OLIVER, KATHLEEN M.</b> , Assistant Professor, Women's Studies and English (2003), Ph.D. (University of	<b>SCHELLHASE, KRISTEN</b> , Adjunct Clinical Professor, Health Science	

(2003), Ph.D. (University of CA-Irvine)

**SUGAYA, KIMINOBU**, Secondary Joint Professor of Molecular Biology and Microbiology

(2004), B.S., M.S., Ph.D. (Science University of Tokyo)

**SWEENEY, PAUL D.**, Professor of Psychology

(1999), M.S., Ph.D. (Indiana University)

**TETER, KENNETH**, Joint Assistant Professor at the Biomolecular Science Center

(2004), B.S., Ph.D. (University of California, Berkeley)

**THOMPSON, CORELY M.**, Professor of Chemistry

(2001), B.S., M.S., Ph.D. (Auburn University)

**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 of Biology

(2002), M.S., Ph.D. (University of Guelph)

**VAN STRYLAND, ERIC W.**, Professor of Optics

(1987), B.S., Ph.D. (University of Arizona)

**WAN, THOMAS**, Secondary Joint Professor of Nursing and Secondary Joint Professor of Health Professions

(2003), Ph.D. (University of Georgia)

**WARREN, WILLIAM**, Courtesy Assistant Professor of Molecular Biology and Microbiology

(2004), B.S., Ph.D. (The Pennsylvania State University)

**WATSON, STEPHEN M.**, Secondary Joint Assistant Professor of Electrical & Computer Engineering

(2004), Ph.D. (University of Nottingham)

**WEEKS, ARTHUR**, Secondary Joint Associate Professor of Optics & Photonics: CREOL & FPCE

(2004), B.S., M.S.E.E., Ph.D. (University of Central Florida)

**WHEELER, RAYMOND**, Professor, Biology

(2003), (Utah State University)

**WHISLER, MARILYN 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)

**WILLIS, JAYNE**, Courtesy Clinical Faculty, School of Nursing

(2005), B.S.N., M.S.N. (University of Florida)

**WITHERINGTON, BLAIR ERNEST**, Research Assistant Professor, Biology

(1999), B.S., M.S., Ph.D. (University of Florida)

**WU, SHIN-TSON**, Secondary Joint Associate Professor of Electrical and Computer Engineering

(2004), B.S., Ph.D. (University of Southern California)

**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.Sc., M.Sc., D.Sc. (Lebedev Physics Institute)

**ZHAO, JIM JIAN**, Clinical Faculty, Health Services Administration

M.B.A., M.D., Ph.D. (Oxford University)

**ZIGLAR, MICHELE K.**, Assistant Professor, School of Nursing

(2002).

## ADMINISTRATIVE OFFICERS & STAFF

**ABNEY, BARBARA COMP-TON**, Assistant Director, Marketing/Communications

(1997), BS in Journalism (University of Florida)

**ARMACOST, ROBERT L.**, Director, University Analysis and Planning Support, and Associate Professor of Engineering

(1991), B.S., M.S.O.R., D.Sc. (George Washington University)

**ATWELL, RONALD H.**, Director of Assessment and Planning

(1984), B.A., M.A., Ed.D. (University of Central Florida)

**BAKER, BARRY B.**, Director, University Libraries

(1997), B.A., M.L.S. (Louisiana State University)

**BALANOFF, JANET P.**, Director, Equal Opportunity and Affirmative Action Programs

(1980), B.S.J., M.S.P.A. (Florida State University)

**BARNICKEL, AMY**, Senior Executive Assistant to the President

(1994), B.A., M.A. (University of

Central Florida)

**BARNES, BETH**, Vice President and Chief of Staff, Office of the President, and Associate Professor of English

(1968), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)

**BERSIA, JOHN**, Global Perspectives

(2001), M.A., M.S. (London School of Economics)

**BESLEY, NANCY**, Executive Director of Florida Foundation for Future Scientists

(2000), B.A., M. Ed. (University of Central Florida)

**BISHOP, PATRICIA J.**, Vice Provost and Dean of Graduate Studies and Professor of Engineering

(1978), B.S.E., M.S.M.E., Ph.D. (Purdue University), P.E. (Florida)

**BOLYARD, WENDY L.**, Assistant Director, Office of Graduate Recruiting

(1998), B.S.J., M.A. (West Virginia University)

**BONTA, LINDA B.**, University Controller

(1968), B.S.B.A., M.A. (University of Central Florida)

**BORDEN, M. PAIGE**, Director of Institutional Research and University Data Administrator

(1996), B.A., M.B.A., Ed.D. (University of Central Florida)

**BROWN, VICTORIA**, University Ombuds Officer

(1990), B.A. (University of Central Florida)

**CEPERO, TANYA**, Coordinator of REACH Peer Education

(2000), B.S., M.S., CHES, CAAPP-2 (University of Central Florida)

**CHAPIN, LINDA**, Director, Metropolitan Center for Regional Studies

(2001), B.A. (Michigan State University)

**CHASE, DIANE Z.**, Interim Assistant Vice President, International and Interdisciplinary Studies, and Professor of Anthropology

(1984), B.A., Ph.D. (University of Pennsylvania)

**CHAVIS, GORDON D. JR.**, Assistant Vice President for Undergraduate Admissions and Student Financial Assistance

(1999), B.A., J.D. (Georgetown University)

**CHEREPOW, SANDRA M.**, Senior Administrative Assistant to the President

(1972), A.A. (Becker Junior College)

**COLBOURN, H. TREVOR**, President Emeritus and Special

Assistant to the UCF Foundation Chief Executive Officer

(1978), M.A., Ph.D. (John Hopkins University)

**COLE, W. SCOTT**, General Counsel

(2002), B.S., J.D. (University of Florida)

**DEES, DAVID R.**, Associate Dean, Enrollment and Academic Services, and Associate Professor of Sociology

(1972), B.A., M.A., Ph.D. (University of Notre Dame)

**DIEBLER, MARCIA A.**, Interim Director of Creative School for Children

(1982), B.S. (Ashland University)

**DONEGAN, HELEN**, Vice President for Community Relations

(1995), B.A. (San Jose State University)

**DRAKE, JAMES A.**, Associate Vice President and Director of Southern Region Area Campuses

(1994), A.B., Ph.D., (Ohio State University)

**DRESSLER, SHERI**, Director, Center for Cooperative Education and Applied Learning

(1982), B.A., M.S.W., Ph.D. (University of Florida)

**DULNIAK, DENNIS J.**, University Registrar

(1999), B.S., M.S., Ed.D. (Montana State University)

**DZIUBAN, CHARLES D.**, Director, Research Initiative for Teaching Effectiveness, and Professor of Education

(1970), B.S., M.Ed., Ph.D. (University of Wisconsin)

**EHASZ, MARIBETH**, Vice President for Student Development and Enrollment Services

(1994), B.S., M.A., Ph.D. (University of Toledo)

**EHLING, WILLIAM**, Director, Recreation and Wellness Center

(2004), B.S., M.A. (Appalachian State University)

**EKERN, SHARON L.**, Assistant Vice President for Administrative Student Support Services

(1990), B.A., M.P.A., Ed.D. (University of Central Florida)

**FAUST, ROBERT**, Director for Student Health Services

(1965), B.A. (University of South Florida)

**FORD, INEZ**, Associate Director for Multicultural Academic & Support Services

(1981), B.A. (University of Central Florida)

**FORTIER, VANESSA**, Director, University Budget Office

(1998), B.S.B.A., M.B.A. (University of Central Florida)

**GAUSE, J. RICHARD, JR.**, Associate University Librarian

(1998), B.S., M.B.A., M.L.S. (Florida State University)

**GONZALEZ, LYNN**, Director, Academic Affairs Administration

(1991), B.A., M.B.A. (University of Central Florida)

**GRAY, BETSY L.**, Associate Director, Office of Research

(1972), B.S.B.A. (University of Central Florida)

**GRAY, LINDA S.**, Assistant Vice President for University Relations and Director of News and Information, University Relations

(200), B.S., M.A. (University of Florida)

**HALL, RHONDA C.**, Interim Director of Student Outreach Programs

(1993), B.A., M.A. (University of Central Florida)

**HALL, TOM**, Interim Director, Alcohol and Other Drug Programming

(2005), BSW, MSW (Florida State University)

**HALPIN, SUZANNE M.**, Director for Student Union

(1998), B.S. (Bentley College)

**HARRISON, DAVID**, Vice Provost, Regional Campuses

(2004), B.E., M.B.A., Ph.D. (Ohio State University)

**HARTMAN, JOEL L.**, Vice Provost, Information Technologies and Resources

(1995), B.S., M.S., Ed.D. (University of Central Florida)

**HARTZLER, CHRISTI A.**, Director of Housing and Residence Life

(1982), B.A., M.Ed. (University of Miami)

**HELMES, TERENCE K.**, Assistant Vice President, University Marketing

(2005), B.S., M.B.A. (Rollins College)

**HICKEY, TERRY L.**, Provost and Vice President, Academic Affairs and Professor of Psychology

(2003), B.A., M.A., Ph.D. (University of Miami)

**HITT, JOHN C.**, President of the University and Professor of Psychology

(1992), B.A., M.S., Ph.D. (Tulane University)

**HOLMES, ROBERT J., JR.**, Vice President for Alumni Relations and Development and Chief Executive Officer

(1998), B.A. (Norwich University), M.A. (University of

# UCF Administrative Officers and Staff

Maine)	North Carolina)	<b>MONROE, JUDITH E.</b> , Assistant Vice President (1978), B.S., M.A. (University of Central Florida)	Administrative Support Services (2001), B.S., M.B.A. (University of Central Florida)	Studies; and Professor of English (1987), B.A., M.A., Ph.D. (Vanderbilt University)
<b>HOLSENBECK, DANIEL C.</b> , Vice President for University Relations; Senior Counsel to the President (1985), B.S., M.E.D., Ph.D. (Florida State University)	<b>LAAKSO, BEVERLY B.</b> , Associate Director, Office of Research (1997), B.S.B.A., M.P.A. (University of Central Florida)	<b>MOONEY, KARL P.</b> , Director of Academic Services for Student- Athletes and Assistant to the Athletic Director (2001), B.S. M.A., Ed.D. (Lehigh University)	<b>PERRY, ANTHONY</b> , Director of Rosen School of Hospitality Management Campus Life (2002), B.A., M.Ed., M.S. (University of Notre Dame)	<b>SCHONS, EDWARD L.</b> Director of University Economic Development, University Relations (2000), B.S. (Florida Southern College)
<b>HOSNI, NADINE</b> , Coordinator for Dispute Resolution Services (2003), B.S., M.B.A. (Rollins College)	<b>LAUREANO, GLORIA</b> Director, First Year Advising (2000), B.A. (Purdue University), M.A., Ed. D. (University of Central Florida)	<b>MORGAN, BEN B., JR.</b> , Associate Dean, Graduate Studies, and Professor of Psychology (1988), B.A., M.A., Ph.D. (University of Louisville)	<b>PET-ARMACOST, JULIA</b> , Assistant Vice President of Information, Analysis and Assessment (1993), M.S., Ph.D. (Case Western Reserve University)	<b>SCHUCKMAN, GREGORY A.</b> , Director of Federal Relations, University Relations (2000), B.S., M.G.A. (University of Pennsylvania)
<b>HUDDLESTON, THOMAS, JR.</b> , Vice President for Marketing, Communications and Admissions (1993), B.S., M.S., Ed.D. (Oklahoma State University)	<b>MacKOWN, PATRICIA A.</b> , Assistant Vice President for Campus Life, Director, Office of Student Rights and Responsibilities and Director, Student Legal Services (1979), B.A., M.A. (University of Central Florida)	<b>MORRISON-SHETLAR, ALI- SON</b> , Director, Karen L. Smith Faculty Center for Teaching and Learning, and Professor of Biology (2002), B.S., Ph.D. (Dundee College of Technology)	<b>PIERCE JR., CHARLES F.</b> , Visiting Assistant Professor (Exec), (2002)	<b>SHAH, MUBARAK A.</b> , Assistant Vice President for Research and Professor of Computer Science (1986), B.E., M.S., Ph.D. (Wayne State University)
<b>HUFF-CORZINE, LIN</b> , Assistant Vice President, Academic Affairs, and Associate Professor of Sociology (1996), B.A., Ph.D. (Washington University)	<b>MARSHALL, RUTH</b> , Director, Office of Instructional Resources (1996), B.R.E., M.A., A.M.L.S., Ed.D. (Northern Illinois University)	<b>MULLALLY, KAY</b> , Security Officer, Certified Facility Security Officer (Defense Security Service) (1986),	<b>POISEL, MARK ALLEN</b> , Associate Vice President for Academic Development and Retention (1999), B.S., M.S., Ed.S., Ed.D. (Florida State University)	<b>SHIVER, LAUREN A.</b> , Assistant Vice President for Advancement Services (2002), A.A., B.B.A., M.B.A. (Valdosta State University)
<b>JENSEN, BERNARD</b> , Associate Professor of Psychology and Director, Eastern Regional Campus (1985), B.S., M.A., Ph.D. (Southern Illinois University)	<b>MASON, GREGORY S.</b> , Director for Greek Housing (1990), B.A., M.S. (Indiana University)	<b>MURATORI, JOANNE</b> , Associate Director, Academic Progress and Completion (1991), B.A., M.A. (Columbia University)	<b>PRIEST, DeLAINE</b> , Assistant Vice-President, Student Services Center (1994), B.A., M.A. (University of Alabama-Birmingham)	<b>SHORR, SCOTT</b> , Assistant Director, Office for Veterans' Affairs (1996), B.S. (University of Central Florida)
<b>JONES, TRACY R.</b> , Director, Admissions and Registration Office of Graduate Admissions and Student Services (1995), B.A., M.A. (University of Central Florida)	<b>McCRAY, CHRISTOPHER, JR.</b> Director of University and Affiliated Housing (1980), B.S., M.S. (Florida State University)	<b>NEIGHBOR, J. EDWARD</b> , Vice Provost, Academic Administrative Systems, and Professor of Physics (1987), B.S., M.S., Ph.D. (Massachusetts Institute of Technology)	<b>PUSKAS, RAYMOND</b> , Director, Purchasing (1988), B.A. (University of Connecticut)	<b>SMITH, JAMES C., JR.</b> , Interim Director of Southern Region Campus Life (1996), B.S., B.A., M.P.A. (University of Central Florida)
<b>JUNTUNEN, DANA</b> , Coordinator for Office of Student Conduct (2003), B.A., M.Ed (James Madison University)	<b>McKINNEY, MARY</b> , Executive Director for Student Financial Assistance (1971), B.S., M.P.A. (University of Central Florida)	<b>NEWMAN, PETER</b> , Director, Facilities Planning (1977), B.S. (Drexel University)	<b>RANGE, A. J.</b> , Assistant Vice President for Special Programs (1994), B.S., M.Ed. (Florida A&M University)	<b>SNOW, ROBERT</b> , Program Director, Transition Advising (1987), B.S., M.S. (Shippensburg University Pennsylvania)
<b>JUNTUNEN, SHANE A.</b> , Assistant Director for Office of Student Involvement/Advisor for Student Government (2003), B.S., M.Ed. (James Madison University)	<b>MEALOR, DAVID J.</b> , Director, Central Region, Regional Campuses (1980), Ph.D. (University of Georgia)	<b>NOVAK, JEFFREY</b> , Assistant Director of Housing and Residence Life and LINK First Year Experience (2001), B.A., M.A., Ed.S. (University of Florida)	<b>RATTI, BARBARA B.</b> , Inspector General (1971), B.A., M.B.A., Ph.D. (University of Central Florida)	<b>SOILEAU, MARION J.</b> , Vice President for Research and Professor of Optics, ECE, and Physics (1987), B.S., M.S., Ph.D. (University of Southern California)
<b>KALFIN, PHILIP N.</b> , Director for Student Disability Services (2000), B.B.A., M. Ed., Ed.D. (University of Florida)	<b>MERCK II, WILLIAM F.</b> , Vice President for Administration and Finance (1996), B.B.A., M.B.A. (Georgia State University)	<b>ORO, GLENNA</b> , Constituent Relations (1999), B.A. (University of Central Florida)	<b>REDDICK, ALZO J.</b> , Director of Special Programs and Defense Transition Services (1990), B.S., M.E., Ed.D. (Nova University)	<b>SORG, STEVEN E.</b> , Assistant Vice President and Director, Center for Distributed Learning, and Associate Professor of Education (1978), B.S., M.S., Ph.D. (Florida State University)
<b>KATZ, SUSAN RACHEL</b> , Director, Southeast Region, National Consortium for Academics and Sports, Academic Retention and Development (1997), B.S. M.S. (Northeastern University)	<b>MESSINA, THOMAS</b> , Associate Vice President for Alumni Relations and Executive Director of the UCF Alumni Association (1992), B.S., M.B.A. (Embry Riddle Aeronautical University)	<b>O'NEAL, THOMAS P.</b> , Associate Vice President for Research (Univ), B.S.E.E., M.S., MBA (University of Central Florida)	<b>REED, HAL C.</b> , Assistant Vice President for Planned Giving (2000), B.A., J.D. (University of Kansas)	<b>STALLWORTH, N. RICHARD</b> , Director, Business Services (1999), B.S., M.P.A. (University of West Florida)
<b>KIJEK, JEAN C.</b> , Director, Florida-Eastern European Linkage Institute and Florida- Canada Linkage Institute (1985), R.N., Ph.D. (New York University)	<b>MILLICAN, CHARLES N.</b> , President Emeritus and Special Assistant to the UCF Foundation Chief Executive Officer M.A., Ph.D. ( University of Florida)	<b>PARADISE, RICHARD D.</b> , Director, Physical Plant (1986), B.S., M.A. (University of Central Florida)	<b>RIDDLE, LAURA</b> , Director for Alcohol and Other Drug Programming (2001), B.A., M.A. (University of Central Florida)	<b>STINARD, CHARLENE</b> , Director for Transfer and Transition Services (1990), B.A., M.A. (Columbia University)
<b>KING, VALARIE G.</b> , Director of Diversity Initiatives (1989), B.A., M.Ed., Ph.D. (The American University, Washington, DC)	<b>MINANA, KIM A.</b> , Assistant Vice President for Major Gifts and Director of Corporate and Foundation Relations (1995), B.A. (University of Central Florida)	<b>PARKER, MELANIE</b> , Director for Career Resource Center (2000), B.S., M.Ed. (Mississippi State University)	<b>RITCHIE, JOE</b> , Director for Orientation Services (2000), B.A., M.A. (Indiana University of PA)	<b>TOWNSEND, CHARMAINE</b> , Director for United Campus Ministries (2002), B.A., M.A. (Reformed Theological Seminary)
<b>KRIST, PAULA S.</b> , Director of Operational Excellence and Assessment Support (2004), Ph.D. (University of	<b>MINNICK, LISA A.</b> , Associate Director of Student Financial Assistance (1989), B.A. (University of Central Florida)	<b>PAVLONNIS, DAVID L.</b> , Director for Activity and Service Fee Business Office (1998), B.S., M.S. (University of Tennessee)	<b>RIVERS, CECELIA H.</b> , Assistant Vice President, Central Regional Area Campuses (1981), B.A., M.A., Ed.D. (University of Central Florida)	<b>TREES, DIANE</b> , Director, Community Relations (1994), B.S., B.S.N., M.S. (University of Central Florida)



**TRUMAN, BARBARA**, Director, Course Development and Web Services

(1996), B.A., M.A. (University of Central Florida)

**TURKIEWICZ, RICHARD P.**, Director, Police and Public Safety

(1988), B.A., M.A. (State University of New York at Buffalo)

**UHLIR JR., JAMES E.**, Director, Environmental Health and Safety

(1988), B.S., M.P.A. (University of Central Florida)

**ULLOM, CRAIG E.**, Associate Vice President for Campus Life

(1998), B.A., M.S., Ed.D. (University of Georgia)

**VAIDYANATHAN, PALLAVOOR N.**, Assistant Vice President for Research

(1999), B.S., B.E., M.Sc., M.B.A., Degree of ENGINEER (Materials Science & Engineering) (University of Florida)

**WAGNER, PATRICK**, Assistant Vice President and Director, Continuing Education

(1997), B.S., M.S., Ph.D. (University of Wisconsin-Madison)

**WANG, ALVIN Y.**, Interim Dean, Burnett Honors College and Professor of Psychology

(1987), B.A., Ph.D. (State University of New York at Stony Brook)

**WATSON, JIMMY L.**, Assistant Vice President for Campus Life and Director Off-Campus Student Services

(1980), B.A., M.Ed., Ph.D. (Columbia Commonwealth University)

**WEIDMAN, DIANA**, Director of Eastern Region Campus Life

(1984), B.S., M.A. (University of Central Florida)

**WELCH, KERRY**, Director, Office of Student Involvement

**WILKENING, JAMES**, Associate Director for Recreation and Wellness Center

(1992), B.S.B.A., M.A.T. (University of Louisville)

**WILLIAMS, ASHLEY B.**, Coordinator of REACH Peer Education and Adjunct Professor

(2002), B.S.W., M.S. Ed. (Florida State University)

**WINFIELD, HERBERT H.**, Associate Director, Technology Transfer

(2002), B.S.E.E. (University of Florida), M.S. in Engineering Management (New Jersey Institute of Technology)

**WINTER, DEBRA Y.**, Associate Director, Office of Graduate Financial Assistance and Publications

(1996), B.A., M.A. (University of Central Florida)

**WRIGHT, EARL, II**, Assistant Professor of Sociology

(1999), B.A., M.A., Ph.D. (University of Nebraska)

**YANCKELLO, ROBERT**,

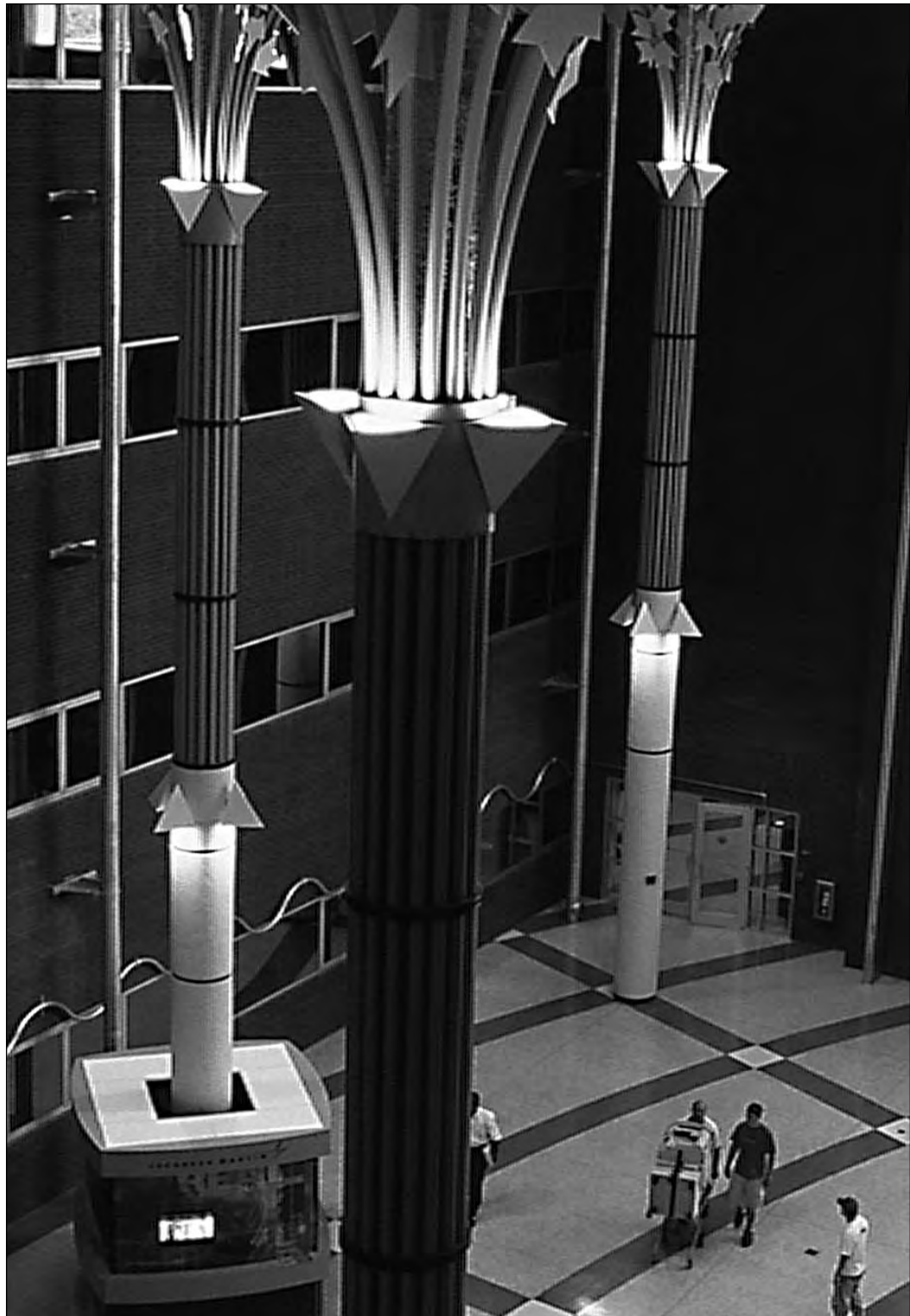
Director, Computer Services and Telecommunications

(2004), B.S., M.Ed., (Pennsylvania State University)

**YOUNG, DENISE L.**, Associate Vice President, Planning and Evaluation

(1990), B.A., M.S.W., Ph.D. (University of Michigan)

**ZIGLER, MICHELE K.**, Assistant Professor, Nursing



# HONORARY DEGREES AWARDED

December, 1969	Kurt H. Debus, Doctor of Engineering Science William H. Dial, Doctor of Commercial Science		William S. Jenkins, Doctor of Humane Letters James C. Robinson, Doctor of Public Service
June, 1970	John W. Young, Doctor of Applied Sciences		Charles N. Millican, Doctor of Laws
March, 1973	Louis C. Murray, Doctor of Public Service	May, 1990	Helen Harris Perlman, Doctor of Humane Letters
August, 1974	Fred C. Clayton, Doctor of Professional Engineering		Thaddeus Seymour, Doctor of Letters
August, 1978	Richard F. Livingston, Doctor of Business Administration	May, 1991	Roald Hoffman, Doctor of Science
June, 1979	Albert F. Hegenberger, Doctor of Engineering Science Lee R. Scherer, Doctor of Engineering Science	May, 1992 May, 1993	Robert Bryan, Doctor of Humane Letters Buell G. Duncan, Jr., Doctor of Commercial Science
December, 1979	Joseph Daniel Duffey, Doctor of Humane Letters	May, 1995	Norman R. Augustine, Doctor of Engineering Science
June, 1980	Thelma Vivian Jackson Dudley, Doctor of Humanities Howard Phillips, Doctor of Public Service	December, 1995 April, 1996	Jesse Stone, Doctor of Humane Letters Nicolaas Bloembergen, Doctor of Science
December, 1981	Gene Burns, Master of Letters	December, 1996	Richard A. Nunis, Doctor of Public Service
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	May, 1997  August, 1998 December, 1998	Maxwell C. King, Doctor of Public Service Joe R. Lee, Doctor of Commercial Science Trevor Colbourn, Doctor of Humane Letters Linda W. Chapin, Doctor of Public Service
July, 1982	Mary Jo Davis, Doctor of Public Service William E. Davis, Doctor of Public Service	December, 1999	Desmond Tutu, Doctor of Humane Letters Oscar Arias, Doctor of Humane Letters
December, 1982	Joseph A. Boyd, Doctor of Engineering Science		Reubin O'D Askew, Doctor of Public Service
July, 1983	J.W. Hubler, Doctor of Engineering Science Charles Wadsworth, Doctor of Public Service	May, 2000 May, 2001	Lolfi Zadeh, Doctor of Science Richard M. Karp, Doctor of Science
December, 1984	Allen E. Gotieb, Doctor of Laws		Joseph T. Traub, Doctor of Science
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	October, 2002  December, 2002	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
March, 1986	Isaac Bashevis Singer, Doctor of Letters	December 13, 2004	Dr. G. Vince Amico, Doctor of Science
October, 1988	Elie Wiesel, Doctor of Letters	December 14, 2004	Dr. Lester Mandell, Doctor of Commercial Science
December, 1988	Sven Caspersen, Doctor of Engineering Science John D. Holloway, Doctor of Public Service Wolfgang-Detlef Petri, Doctor of Commercial Science	March 3, 2006	Anibal Acevedo Vila, Doctor of Public Service
May, 1989	Frank M. Hubbard, Doctor of Public Service David Albertson, Doctor of Humane Letters		

# UCF GLOSSARY

**A.A.:** associate in arts degree. A degree designed for transfer to an upper division college or university. A Florida A.A. degree satisfies General Education (GEP) at all Florida SUS Schools.

**Accreditation:** certification that the college/school or program has met established standards and is nationally recognized by appropriate accrediting agencies.

**ACT:** American College Testing program is used for undergraduate admission purposes.

**Add/Drop:** online procedure used to alter class schedules after registration. During this time, students can adjust their schedules through MyUCF (<https://my.ucf.edu>) without penalty by adding or dropping courses. Students should check the appropriate term's *Schedule Web Guide* for details.

**AEP:** Academic Exploration Program to assist undecided students.

**A.S.:** associate in science degree. A broad-based degree designed to prepare students to enter a wide variety of careers.

**ASSA:** Academic Services for Student Athletes.

**Audit (course):** to attend classes without receiving academic credit.

**Audit (Degree):** Computerized summary of progress toward completion of degree requirements to be used with academic advising and registration. Available from MyUCF at <https://my.ucf.edu>. (See also "SASS Degree Audit")

**BA:** Business Administration. This abbreviation appears in the listing of courses and refers to the College of Business Administration (CBA). Also see Bachelors Degree.

**Baccalaureate or Bachelors Degree:** completion of all University and major graduation requirements as certified by the University (B.A. is the Bachelor of Arts degree and B.S. is the Bachelor of Science degree).

**BCBS:** Burnett College of Biomedical Sciences.

**Breaking Catalog:** loss of eligibility to follow graduation requirements in a specific catalog.

**CAH:** College of Arts and Humanities.

**Catalog:** resource for UCF academic policies and procedures, college/school and degree requirements, course descriptions and faculty listings. It is published annually and its contents are subject to change. Available online at <http://www.catalog.sdes.ucf.edu>

**Catalog Year:** the edition of the University catalog that governs course prerequisites, co-requisites and graduation requirements for a particular academic year.

**CBA:** College of Business Administration

**CECS:** College of Engineering and Computer Science

**Certificate:** special program of study supplemental to a major.

**CI:** consent of instructor.

**Class Schedule Search:** a component of the online MyUCF system (at <https://my.ucf.edu>) that lists courses and class sections offered each academic term.

**CLAST:** College Level Academic Skills Test: the CLAST is a required statewide test which measures selected communication and mathematics skills.

**CLAST Alternative:** refers to another way of satisfying one or more subtests of the CLAST requirement other than taking the exam - through combination test

scores (SAT or ACT) and specific course grades.

**COE:** College of Education.

**COHPA:** College of Health and Public Affairs.

**College:** collection of related academic departments. There are nine colleges at UCF: Arts and Humanities (CAH), Business Administration (CBA), Burnett College of Biomedical Sciences (BCBS), Education (COE), Engineering and Computer Science (CECS), Health and Public Affairs (COHPA), Optics and Photonics (COP), The Burnett Honors College (BHC), Rosen College of Hospitality Management (RHM), and Sciences (COS).

**Common Course Numbering:** the statewide course numbering system (SCNS) uses a course designation that consists of a 3-letter prefix and a 4-digit number and when necessary a one-letter laboratory (L) or lecture/laboratory (C) suffix.

**Common Program Prerequisite:** the State of Florida has identified Common Program Prerequisites for all University programs. These prerequisites must be completed by all students entering that field of study, must be accepted by all state universities and must be applied towards the degree.

**Contact hours:** number of hours students meet in class.

**Continuous Enrollment:** enrollment not interrupted by non-attendance for either consecutive Fall and Spring terms, or consecutive Spring, Summer term, and Fall.

**COS:** College of Sciences.

**CR:** co-requisite is an additional course in which you must enroll during the same term as the primary course you desire to take.

**Credit Hour or Semester Hour:** every course taught is designated a total number of credit hours. The number of credit hours for a class reflects approximately the total hours a student spends per week in class. Most lecture courses are three credit hours and meet three hours each week. Students should expect to spend at least two hours of study time outside of class for every hour spent in class. One semester hour equals 1.5 quarter hour.

**Diploma:** official certificate displaying earned degree, major and baccalaureate honors.

**Directory Information:** information items that the Family Educational Rights and Privacy Act of 1974, As Amended (FERPA) authorizes the University to release without the student's prior consent, unless the student has filed a "Directory Disclosure/Release Authorization Form" with the Registrar's Office. Directory information at UCF includes the student's name, current mailing address, telephone number, date of birth, e-mail address, enrollment status, dates of attendance, major field of study, degree and awards received, participation in officially recognized activities and sports, and athletes' height and weight.

**Disqualified:** a student on academic probation is disqualified upon failure to achieve a minimum 2.0 UCF GPA during the subsequent term. A student who is disqualified may not enroll at the University for two terms following disqualification. Readmission after two terms is not automatic.

**Distance and Distributed Learning:** learning online through the UCF Virtual Campus, which provides opportunities for students to enroll in credit courses and select degree programs through a variety of interactive distributed technologies.

**Double Major:** awarded when the student concurrently

satisfies requirements for two majors.

**Drop:** a student may drop a course during the official Add/Drop period and a dropped course will not appear on the student's permanent record. Students are not fee liable for dropped courses.

**Elective:** any course not required as part of the General Education Program or as part of your major/minor.

**Email:** primary official means of communication with students regarding University business and information.

**Enrollment Certification:** an official University document that provides a student's enrollment history including status, dates enrolled, and degrees awarded, available online at [my.ucf.edu](https://my.ucf.edu) in Student Self Service.

**Equipment Fee:** A charge associated with some majors to cover the use and replacement of equipment.

**Excluded:** a student readmitted following disqualification who fails to achieve a minimum 2.0 GPA is excluded from the University. Students are not eligible for readmission after exclusion. See "Readmission" for details.

**Fee Invoice:** a printout of courses for which the student has registered that lists each specific course, its meeting time(s) and day(s). The amount of tuition and fees due for all courses registered and the payment deadline date also is indicated. Available online at <https://my.ucf.edu> in Student Self Service.

**Freshman and Sophomore Courses:** lower level courses with common course numbers ranging from 1000-2999 (e.g., ENC 1101, English Composition I). Generally, freshmen should enroll in 1000 and 2000 level courses.

**FTIC:** abbreviation for "First Time In College," referring to those students who have completed fewer than 12 semester hours and currently are in their first term as a UCF college student after high school.

**Full-Time Course Load:** for undergraduates, a minimum of 12 credits in the Fall and Spring and Summer terms.

**FYAE:** First Year Advising and Exploration.

**GEP:** General Education Program: Specific courses required for all UCF degree programs providing skills and knowledge in general subject areas essential to continued learning and success, not only in college but throughout the student's life.

**Gordon Rule:** requires students to complete four composition courses (12 semester hours) and two courses (six semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a grade of "C-" (1.75) or better.

**GOT:** the Grad On Track program is designed to assure a student's graduation in four years.

**GPA:** "Grade Point Average": the average number of grade points per semester hour attempted. GPA is computed by dividing the total number of grade points assigned by the total number of semester hours attempted, less hours resulting from NC, W, WP, and I grades.

**Grade Forgiveness:** refers to when a course taken at UCF is repeated, and for grade point average purposes, the grade earned in the first attempt is replaced by the grade earned in the second attempt at UCF (may be used only twice in the student's academic career).

## UCF Glossary

**Grade Point Deficiency:** for readmission purposes only, this term is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

**Health Form:** documentation of immunity for measles and rubella, as well as consent for treatment at the University Health Center (must be completed and returned to Student Health Services prior to the first registration).

**Hold:** also called a "negative service indicator", this is a block on activity for transcripts, grades, diploma, or registration because of financial or other obligations to UCF.

**Incomplete:** grade assigned by the instructor when a student is unable to complete a course due to extenuating circumstances. Must be completed in 12 months or by graduation, whichever comes first.

**Junior and Senior Courses:** upper level courses with common course numbers ranging from 3000-4999 (e.g., ENG 3311, Advanced Expository Writing).

**Kiosk:** stand-alone PCs located in UCF public areas providing access to student records and general information.

**Limited Access:** certain academic programs designated as "limited access" only guarantee admission to a limited number of applicants.

**Lower Level Courses:** courses with a number of 1000-2999 (not less than 1000).

**Major:** group of related courses that constitute a focused program of study in a specific area of knowledge.

**Material and Supply Fee:** A charge associated with some courses to cover items consumed within the class.

**Minor:** a complement to a bachelor's degree program/major requiring at least 18 credit hours in a field.

**NID:** Network Identification Number that students use to log in to WebCT, Pegasus e-mail and the UCF computer labs.

**OASIS:** Office of Academic Support and Information Services is the primary office for undergraduate academic assistance in the College of Arts and Humanities and the College of Sciences.

**Overall GPA:** cumulative GPA of UCF and transfer course work.

**Password:** a series of four to eight characters and numbers chosen by the student that is associated with the PID (Personal Identification Number). Each time you use the PID to enter myUCF, you also will enter your Password.

**Pending Status:** category assigned to students who desire to enter limited or restricted access programs. Typically, students are required to complete the GEP and all major pre-requisites prior to admission into the desired limited access program. (Department will change student's status upon acceptance into the program.)

**PID:** (Personal Identification Number): personal eight-digit code required when entering MyUCF, or the UCF Information Kiosks.

**MyUCF:** the UCF/student information portal online at <https://my.ucf.edu>. MyUCF is a powerful, security-encrypted, PID (Personal Identification Number) and Password-access information system that will facilitate a variety of transactions in which students will engage at UCF. In MyUCF, students may obtain a list of current holds, change the Password, e-mail address, telephone number, and permanent/ mailing addresses; search for courses each term; register, drop and add courses each term; withdraw from courses following the close of Late Registration and Add/Drop, print the "SASS Degree Audit," obtain the registration appointment day and time for each term, print a "Fee Invoice," pay fees by credit card, gain access to financial aid and accounts receivable information; obtain the term final grades, and a list of current courses.

**PR:** prerequisite refers to a specific course that must be taken and passed prior to enrolling in the primary course the student desires to take.

**Probation:** action taken when a student's UCF overall GPA drops below 2.0.

**Readmission:** reapply to the Registrar's Office after an absence of two or more terms.

**Registration:** the act of enrolling in classes. This may be done through MyUCF at <https://my.ucf.edu>, kiosk and in limited circumstances at the colleges' advising offices.

**Repeat Surcharge:** additional fee applied when a student enrolls in the same course three or more times.

**Restricted Access:** a major that has additional admission requirements (e.g. early application date, a separate application or specific GPA requirements). There is no limit to the number of students who can be enrolled. Students meeting the specified requirement(s) normally will be admitted.

**Restricted Electives:** a specified group of courses within a major from which students must make selections.

**Retention:** a term used to describe students' continued enrollment at the University until successful completion of their educational goals.

**RHM:** Rosen College of Hospitality Management

**SARC:** Student Academic Resource Center provides academic support programs, including supplemental instruction, tutoring, academic advising, and various other programs and services to students.

**SASS Degree Audit:** A Student Academic Support System is a computerized degree audit that lists courses completed toward major and degree requirements.

**SAT:** Scholastic Assessment Test is an assessment used for University admission purposes.

**Satisfactory Academic Progress:** a general eligibility requirement for financial assistance. (see 'Office of Student Financial Assistance' within the "Financial Information" section of this *Undergraduate Catalog*.)

**Schedule Web Guide:** Multiple-Term editions available online at <http://registrar.ucf.edu>. Provides the "Academic Calendar," guides to registering online, Class Schedule Search and the Fee Invoice, and contains the policies that govern course registration. Each term's class listings are available only on-line through MyUCF Class Schedule Search at <https://my.ucf.edu>.

**Second Bachelors Degree:** awarded when the student meets the requirements for both degrees and earns a minimum of 150 credit hours.

**Section:** refers to one of several offerings of the same course scheduled at different days of the week and hours of the day. For example: there may be 40 different sections of ENC 1101 offered within a term.

**Sequence:** a series of courses within the same subject area. Generally, the student takes these courses in numerical order (e.g., PHY 2053 then 2054). Students should consult the advisor before registering out of sequence.

**STEP:** State Tuition Exemption Program

**Student Success Center:** advising offices and other academic support services for first-year students located on the first two floors of Howard Phillips Hall.

**SUS:** State University System. All eleven Florida public universities are part of the SUS.

**Term:** the academic year at UCF is divided into segments called "terms" (also called "semesters"). Each lasts approximately 16 weeks. Some universities break the year into fourths and call them "quarters." UCF is on the semester system; however, we usually speak of "Fall Term," "Spring Term," or "Summer Sessions."

**Term GPA:** grade point average (GPA) on work attempted during any given term.

**TBHC:** The Burnett Honors College

**Third Attempt Charge:** See 'Repeat Surcharge.'

**Track:** one of two or more significant variations in a degree program or major. Approximately 50% of the courses in one track differ from the courses required in other tracks.

**Transcript:** official academic record mailed from the Registrar's Office.

**TSD:** Time Shortened Degree or Accelerated Education Opportunities.

**TSR:** Transfer Summary Report is a listing of all coursework transferring to the University for credit. A preliminary TSR is generated at the time of acceptance. A final TSR is processed after all final transcripts have been received by the Admissions Office.

**Transient Student:** a UCF student enrolled in courses at another regionally-accredited institution.

**UCF Area Campus System:** UCF at Cocoa, UCF at Daytona Beach, UCF Downtown, UCF at Heathrow, UCF at MetroWest, UCF at Ocala, UCF at Osceola, UCF at Palm Bay, UCF at Sanford/Lake Mary, UCF at South Lake, UCF at South Orlando.

**UCF GPA:** grade point average (GPA) on all work attempted while in attendance at UCF.

**Upper Level Courses:** courses with a course number of 3000-4999.

**Withdrawal, Withdraw from a Course:** to formally request an official withdrawal from one or more courses during the first half of the term or session through MyUCF (<https://my.ucf.edu>) or at the Registrar's Office.

# INDEX

<b>Academic</b>	Application for Admission	28	College Level Academic Skills Test (CLAST)	49
Advising	Application Deadlines	28	College Level Examination Program (CLEP)	60
Alcoholic Beverage Policy	Area Studies Programs	75	Communicative Disorders, Department of	97
Amnesty Program	Arena, UCF	18	Computer Science, School of	90
Behavior Standards	Army ROTC (Military Science)	94	Complaint Policy	11
Calendar	<b>Arts and Humanities, College of</b>	74	Computer Services and Telecommunications	17
Development and Retention	A.S. to B.S. Programs	298	Continuing Education, Division of	63
Exploration Program	Athletics, Intercollegiate	18	Continuous Enrollment	46
Honors	Athletic Eligibility and Retention Committee	57	Cooperative Education	63
Non-discrimination Policy	Attendance, Absences, or Unsatisfactory Work	53	Co-op Student	54
Probation	<b>Audit</b>		Correspondence Courses	50
Programs	Registration	51	Costs, School	33
Regulations and Procedures	Senior Citizen	51	Counseling Center	22
Satisfactory Progress Policy	Award Notification	33	Course Development & Web Services	18
Computer Services	Baccalaureate Degrees	67	Course Repeat Surcharge	57
Services for Student Athletes	Baccalaureate Honors	31, 54	Course Substitution - General Education Program	47
Academic Standing	Board of Education, State of Florida	6	Creative School for Children	23
<b>Academic Advising</b>	Board of Trustees, State of Florida	6	Creed	2
Academic Services for Student-Athletes	Bookstore	18	<b>Credit</b>	
Academic Exploration Program	<b>Burnett College of Biomedical Science</b>	69	By Examination	61
First Year Transitions	<b>Burnett Honors College</b>	71	Dual Usage	50
Honors College, The Burnett	<b>Business Administration, College of</b>	79	While Disqualified/Excluded	55
Multicultural Academic and Support Services	Calendar, University Academic	8, 9	Credit Hour Limits	51
Pre-Health Professions Advising	Cambridge AICE Exams	61	CREOL	63
Student Academic Resource Center	Campuses, Regional	13	Cum Laude	54
Accreditation	Campus Alcoholic Beverages Policy	10	DANTES Examination Credit	62
Activity and Service Fee Business Office	Campus Faiths and Ministries	26	Daytona Beach Regional Campus	13
Add/Drop Policy	Campus Life	24	Dean's List	54
Address and E-mail Changes	Campus Tours	27	Deferrals of Tuition and Fees	33
Administrative Procedures Act	Campus, Virtual	12	Degree Certifications	51
Administrative Student Support Services	Cardiopulmonary Sciences Program	97	Degrees Offered	67, 98
Admissions, Undergraduate	Career Service and Experiential Learning	22	Degree Requirements	46
Admissions Categories	Catalog, Choice of	44	<b>Departments</b>	
Admissions and Standards Committee	Center for Applied Human Factors in Aviation		Accounting	80
(See also: Readmission)	(CAHFA)	64	Anthropology	101
Advanced Placement Program (AP)	Center for Economic Education	64	Art	76
Advising, Academic	Center for Multilingual Multicultural Studies	64	Biology	101
Aerospace Studies (ROTC)	Central Florida Research Park	15	Chemistry	102
African-American Studies Program	Certificates	58, 258, 283	Child, Family and Community Sciences	86
Air Force (ROTC)	Certifications, Enrollment	58	Civil and Environmental Engineering	89
Alcohol and Other Drug Programming	Child Care (see Creative School)	23	Communication	102
Alumni Association	Child, Family and Community		Communication Sciences and Disorders	97
American Sign Language	Sciences Department	85	Criminal Justice and Legal Studies	97
American Studies Program	Classroom Responsibility	53	Economics	81
Amnesty Program	Clinical Experiences, Office of	84	Educational Research, Technology and Leadership	86
Anthropology Department	Cocoa Regional Campus	14	Educational Studies	86

# Index

Electrical and Computer Science	90	Excelsior College Examinations	62	Health Sciences Program (Generalist Track)	98
English	76	Exclusion, Academic	55	Health Services Administration Program	98
Engineering Technology	93	Executive Development Center	64	Higher Education Act	59
Finance	81	Experiential Learning	63	Hold Status	51
Health Professions	97	Family Educational Rights and Privacy Act (FERPA)	58	Honors, Academic	54
History	77	Fees, Schedule of, Tuition	36,37	Honors College, The Burnett	71
Industrial Engineering & Management Systems	92	Fee Waivers, Appeals, Refunds	36	Hospitality Management, Rosen School of	104
Management	81	Film, School of	76	Housing & Residence Life	24
Management Information Systems	82	Financial Assistance, Student	32	Humanities (see Philosophy)	78
Marketing	82	First Year Advising and Exploration	21	Incomplete ("I") Grade	53
Mathematics	102	First Year Transitions	21	Information Technologies and Resources	17
Mechanics, Materials and Aerospace Engineering	92	Florida-Canada Linkage Institute	64	Institute for Simulation and Training (IST)	65
Molecular Biology and Microbiology	69	Florida Eastern Europe Linkage Institute	64	Institutes and Centers for Research	64
Music	78	Florida Foundation for Future Scientists	23	Institute of Statistics and Data Mining	65
Nursing, School of	99	Florida Institute of Government at UCF	65	Institute for Technical Documentation	66
Optics and Photonics, College of	100	Florida Prepaid College Plan	37	Instructional Resources	17
Philosophy	78	Florida Resident/Tuition	37	International Applicants, Admission of	30
Physics	102	Florida Solar Energy Center (FSEC)	65	International Baccalaureate Program	59
Political Science	102	Florida Space Institute (FSI)	65	International Services Center	16
Public Administration	99	Florida Work Experience Program (FWEP)	35	International Studies and Programs	63
Psychology	103	Foreign Language Proficiency Requirement	48	Intramural Sports	26
Sociology	103	Foundation, UCF, Inc.	18	Judaic Studies Program	77
Statistics and Actuarial Science	103	Freshman Applicants	28	Junior Classification	54
Teaching and Learning Principles	86	Freshman Classification	54	Late Payment Fee	35
Theatre Department	78	Fund Disbursement	34	Late Registration Fee	35
Dick Pope, Sr. Institute for Tourism Studies	64	General Education Program (GEP)	46	Latin -American Area Studies	77
Digital Media, School of	76	Glossary	435	LEAD Scholars Program	25
Directory Information	58	Good Standing	55	Liberal and Interdisciplinary Studies	105
Disability Services, Student	23	Gordon Rule	48	Libraries, University	17
Dispute Resolution Services	26	Grad On Track (GOT)	50	Limited Access Programs	28
Disqualification/Suspension, Academic	55	Grade Change	53	Limited Non-Degree Applicants	30
Diversity Requirement	47	Grade Forgiveness Policy	54	LINK First Year Experience	24
Double Majors	50	Grade Reports	53	Magna Cum Laude	54
Downtown (UCF)	13	Grade System	52	Major, Change of	58
Drug-Free Work Place/Drug-Free Schools, Statement on	10	Graduate Programs	68	Majors	58, 67,102
Dual Enrollment Applicants	29,35	Graduation Application Deadline	50	Meal Plans (see Campus Life)	23
Dual Usage of Credit Hours	50	Graduation Rates Disclosure	18	Mechanical, Materials, and Aerospace Engineering Department	92
Early Admission	29	Graduation Requirements	46	Medical Laboratory Sciences Program	96
<b>Education, College of</b>	<b>83</b>	Greek Affairs	24	Medical School Program, Accelerated UCF/USF	295
Employment, Work Study Jobs	33	Health & Public Affairs, College of	96	Military Science (Army ROTC)	94
Endowed Chairs	15	<b>Health</b>		Minors, Academic	58, 68,258
<b>Engineering and Computer Science, College of</b>	<b>87</b>	Student Fees	36	Modern Languages and Literatures	74
Enrollment Certifications	52	Services	25	Molecular Biology and Microbiology	69
Enrollment, Continuous	46	Health & Public Affairs, College of	96	Multicultural Academic and Support Services (MASS)	26
Environmental Engineering, Civil and	89	Health Sciences Program (Athletic Training Track)	98	Multilingual-Multicultural Studies, Center for	63
Excess Hours	51				

Name Changes	57	<b>Rosen College of Hospitality Management</b>	104	Involvement	26
National Consortium for Academics & Sport	21	RosenCollege of Hospitality		Leadership Programs	25
No Credit (NC) Grade	52	Management Campus Life	25	Legal Services	26
Non-Degree-Seeking Students	30,53	ROTC (see Air Force: Army)	94	Outreach Programs	26
OASIS - College of Arts & Sciences	75	Russian Area Studies	73	Records	58
Oak Ridge Associated Universities (ORAU)	64	SASS Degree Audit	47	Responsibility for University Communications	11
Off-Campus College Credit Program	63	Satisfactory Academic Progress	34	Rights & Responsibilities	26
Off-Campus Student Services	24	Schedule Web Guide	51	Union	26
Office of Undergraduate Studies	105	School Costs	33	Use of Technology	11
Ombuds Office, University	16	Second Bachelor's Degree	30,50	Student Development & Enrollment Services	20
Orientation	28	<b>Sciences, College of</b>	101	Study Abroad Programs	63, 288
Orientation Services	22	Semester Average	53	Summa Cum Laude	54
Overawards	35	Semester Hours Defined	51	Summer Attendance Requirement	49
Past Due Accounts	37	Senior Citizens	51	Temporary Student	54
Payment Procedures	36	Senior Classification	54	Testing Center	21
Police, Public Safety and	16	Service-Learning	288	Third Attempt Course Repeat Surcharge	57
Post-Baccalaureate	54	Sexual Harrassment Policy	10	TOEFL	30
Posthumous Degrees	46	Shakespeare Festival	18	Tourism Studies, Dick Pope, Sr. Institute for	64
President's Honor Roll	54	Simulation & Training, Institute for	65	Tours, Campus	27
Probation, Academic	55	Small Business Development Center	66	Transcript Requests	57
Provisional Student	54	Small Business Institute	66	Transfer Applicants	29
Radiologic Sciences Program	98	Social Sciences Program	75	Transfer Credit	31
Reactivation of Application	28	Social Work, School of	99	Transfer Services	21, 43
Readmission	55	Sophomore Classification	54	Transfer Students	29, 35
Recreation and Wellness Center	26	South Orlando, UCF	15	Transient Student	30,50,54
Records	58	Special Student Classification	54	Transit Services	18
Refund of Fees	37	State of Florida Employee Registration	51	Tuition and Fees	37
Regional Campuses, UCF	13	State of Florida Employee Fee Waivers	37	Tuition Waivers	37
Regional Campus Student Services	25	State Tuition Exempt Program (STEP)	51	UCF Average (Academic)	53
Registrar's Office	22	<b>Student</b>		UCF Employee Registration	51
Registration	51	Academic Resource Center (SARC)	21	UCF Employee Fee Waiver	37
Religious Observances	53	Accounts Office	35	Undeclared Students	58
Repayment Policies	35	Attendance and Absences	53	Undergraduate Studies, Office of	16, 105
Repeat Surcharge	57	Classifications	54	Upper Division, Admission to	50
Research, Institutes and Centers for	64	Conduct	26,53	Veteran's Services	22
Research Park	15	Disability Services	23	Withdrawal Policy	52
Residency Reclassification	39	Employment	33	Women's Studies Program	78
Resource Center, Off-Campus Student	24	Financial Assistance	32	Work Study Jobs	33,34
Returned Check Charge	36	Government	25		
Room and Board	33	Health Services	25		

