USF UNIVERSITY OF SOUTH FLORIDA

Graduate School

GRADUATE CATALOG 2007-2008

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2007-2008 Graduate Catalog
What's New? Updates to Note

Policy Updates Approved by Graduate Council on date noted:

- **Drops, Deletes and Retroactive Actions** – corrections and clarifications. The last week to drop a course is the tenth week, but the previous policy stated it as the ninth week, so that was corrected. Also, a statement regarding a student receiving an "F" if they drop a course following the tenth week of classes was deleted since it was incorrect (students receive a "W" if they withdraw). It was also clarified that the Graduate School will not process requests to drop a course following the tenth week of classes unless the request meets the criteria for one of five noted exceptions, which are now listed with the policy. The Delete Policy was also clarified, noting that deletes are only for university error. Also the policy on retroactive actions was clarified, noting that the Graduate School will not process them except in cases of the noted exceptions. Approved 12/18/06. See p. 77-78

- **Transfer of Credit:** revised policy for what may be transferred. Increased allowable amount from 9 hours to 12 hours and addressed various situations for transfer. See table for more specific. Approved 12/18/06. See p. 91-92

- **Accelerated Degree Program Guidelines –** developed guidelines for the creation of accelerated degree programs. Approved 4/17/06. See p. 92

- **Time Limitations –** time limitations for degree completion were reduced from 7 years to 5 years for master's degrees and from a total of 12 years (for those entering without a masters - 7 years to candidacy and 5 years for dissertation completion) or 10 years (for those entering with a masters – 5 years to candidacy and 5 years for dissertation completion) to 8 years (with or without a masters upon admission - 4 years to candidacy and 4 years to dissertation completion) Approved 11/20/06. See p. 94 and 100

- **Doctoral Defense Guidelines –** clarified policy requirement for the number of committee members needed to proceed with the defense. Approved 12/18/06. See p. 103-104

Curriculum Updates Approved by Graduate Council on date noted.

New Degree Programs

Criminal Justice Administration (M.A.) (*effective 08/06)*	Approved by GC 1/23/06; BOT 5/10/06
Statistics (M.A.) (*effective 08/06)*	Approved by GC 9/19/05; BOT 5/10/06
Finance (M.S.) *(effective 08/06)*	Approved by GC 1/23/06; BOT 5/10/06

New Dual Degree or Combined Programs

Audiology (Au.D.)/Communication Sciences and Disorders (Ph.D.)	Approved 4/18/06
Medicine/Medical Sciences (M.D./Ph.D.) – *combined program*	Approved 11/20/06

New Concentrations

Aging and Neuroscience (M.S. in Medical Sciences) *(effective 01/06)*	Approved 11/20/06
Bio-Cultural Medical Anthropology (M.A. , Ph.D. Applied Anth) *(effective 08/06)*	Approved 10/19/04
Clinical and Translational Research (M.S. in Medical Sciences) *(effective 05/06)*	Approved 11/20/06
Cultural Resource Management (M.A. , Ph.D. Applied Anth) *(effective 08/07*)	Approved 12/18/06
Human Resource Development (M.A. in Adult Education) already listed *(effective 01/06)*	Approved 3/20/06
Molecular Medicine (M.S. in Medical Sciences) *(effective 01/07)*	Approved 11/20/06
Multimedia Journalism (M.A. in Mass Communications) *(effective 08/06)*	Approved 7/17/06
Nurse Anesthesia (M.S. in Nursing) *(effective 08/06)*	Approved 7/17/06
Public Health Administration (M.P.H. in Public Health) *(effective 08/06)*	Approved 7/17/06
Teaching and Learning in the Content Area: Gen Ed (Ph.D. in C&I) *(effective 08/06)*	Approved 10/19/04
Women's Health (M.S. in Medical Sciences) *(effective 01/07)*	Approved 12/18/06

New Dual Concentrations

Epidemiology and Global Health (M.P.H. in Public Health) *(effective 08/06)*	Approved 7/17/06

New Graduate Certificates – see complete listing on p.112

Questions about these updates may be directed to the Graduate School at chines-cobb@grad.usf.edu

USF UNIVERSITY OF SOUTH FLORIDA
Graduate School

GRADUATE CATALOG
2007-2008

The policies and procedures herein have been approved, as appropriate,
by the Graduate Council Policy Committee and by the full Graduate Council,
a Standing Committee of the Faculty Senate.

The policies, procedures, and requirements herein are applicable to students admitted to a graduate degree program or graduate certificate, and/or non-degree seeking students taking graduate coursework. Undergraduate students should refer to the Undergraduate Catalog, even if taking graduate coursework. It is the student level that dictates which publication governs, not the level of coursework.

USF Graduate School, 4202 E. Fowler Avenue, BEH 304
Tampa, FL 33620 ~ ***www.grad.usf.edu***

Graduate School Mission Statement

The Mission of the Graduate School at the University of South Florida is to stimulate, encourage and support graduate education efforts that build national distinction and are characterized by innovation and by increasing contribution to the social, cultural, economic, health and technological development needs of the region and state.

Graduate School Diversity Statement

The Graduate School at the University of South Florida is committed to the full engagement, empowerment and encouragement of *all* of the members and constituents we serve; these include students, faculty, staff, academic departments, aspirants, and affiliates.

In recognizing that a university serves a diverse population, we strive not only to serve, but to lead the future in which we "stimulate, encourage and support graduate education efforts that build national distinction..." We understand that in order to realize this future, we must remain steadfast to the policies and practices that emphasize achievement, equal opportunity, trust, respect, and collaboration. Hence, equity and excellence are not merely espoused, but rather are the "lived" values that we strive for and advocate for members of the community of universities and a global workforce.

USF's Graduate School Administration Policy

For information on the University's Policy on the Graduate School Administration, refer to USF Policy 11-001, at http://usfweb2.usf.edu/usfgc/gc_pp/acadaf/gc11-001.htm

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This catalog is effective for the 2007-2008 academic year. This catalog includes all policies, procedures, and program and course descriptions in effect at the time of publication. USF reserves the right to repeal, change, or modify the policies, procedures, programs, and course descriptions at any time.

The University of South Florida is committed to the principles of equal education, equal access, and equal employment opportunities without regard to race, color, marital status, sex, religion, national origin, disability, age, or Vietnam or disabled veteran status as provided by law and in accordance with the University's respect for personal dignity. These principles are applied in the conduct of University programs and activities and the provision of facilities and services.

Archives online:
2006-2007 PDF Version
2005-2006 PDF Version
2004-2005 PDF Version
2003-2004 PDF Version
2001-2003 Catalog and PDF Version
2001-2003 Updates
1999-2001 Catalog
1999-2001 PDF Version

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Section 1
Welcome to Graduate School!

A MESSAGE FROM THE PRESIDENT

Thank you for your interest in graduate education at the University of South Florida. USF is a top-tier, metropolitan research university, distinguished by our excellent research and graduate education and our location in a major urban region that is among the nation¹s most diverse and encompasses some of the world's most prized marine and land environments. USF programs that are recognized as being among the nation's best include Marine Science, Psychology, Accounting, Applied Anthropology and Biochemistry.

Strong interdisciplinary programs put USF on the leading edge of research and graduate education in a number of areas. For example, collaboration of researchers throughout the institution has made USF a leader in the neuroscience of aging. USF's interdisciplinary doctoral program in Aging Studies was the first in the country. The doctoral program in Cancer Biology joins USF research capacity with the strengths of the nationally recognized H. Lee Moffitt Cancer Center and Research Institute. In addition to doctoral programs, USF offers many opportunities for postgraduate study through our many Master's and Certificate programs, many of which are designed to prepare graduates to make immediate contributions to the economic, cultural and social vitality of communities.

Our commitment to diversity, discovery and application of knowledge that is relevant to development of urban communities has resulted in USF being frequently cited as the model for an "engaged university." The opportunities for graduate education at USF are vast. In many areas, USF offers programs that are unsurpassed in their capacity to prepare you to make your best contribution to a challenging world. I invite you to inquire further about USF programs of interest to you.

Sincerely yours,

Judy Genshaft
President
Office of the President - http://isis.fastmail.usf.edu/president/index.html

A MESSAGE FROM THE ASSOCIATE PROVOST FOR RESEARCH AND DEAN OF THE GRADUATE SCHOOL

I am delighted that you have expressed an interest in graduate education at the University of South Florida. We are committed to providing an excellent learning environment within which each and every graduate student can plan his or her career path. With top quality graduate programs, focused mentoring, and outstanding faculty and facilities, all in a metropolitan setting, we offer you the opportunity to personally and professionally excel. To date, more than 45,000 masters students and 3,000 doctoral students have successfully completed their degrees and moved on to exciting careers. While this bit of history demonstrates what we have done, we are truly excited about the future of graduate education at USF. We are continuing to build interdisciplinary programs upon our disciplinary strengths. Newly funded thrust areas include Sustainable Healthy Communities with graduate programs across all of our colleges participating to provide graduate students with the societal, technological, and environmental knowledge to enhance the quality of life across the globe. In fact, the university is committed to providing the graduate experience so that USF students can be leaders for a sustainable future for our region, our state, our nation and our planet.

We know that the selection of a Graduate School will affect the rest of your professional life, and as you make your decisions for the immediate future, we at the University of South Florida believe that you would do were well to consider our University of South Florida system, which offers over 100 master's degrees and nearly 40 doctoral programs. In our continuous efforts to meet the needs of the communities we serve, we offer full degree programs both at our Tampa campus and at our regional campuses in St. Petersburg, Sarasota, and Lakeland as well as at other sites in the greater Tampa Bay area. Our tuition, among the lowest in the country, provides affordability; plus we also offer a number of financial aid and work-study options. We recognize that many graduate students have very different responsibilities and needs, and so many of our programs offer flexible day, evening, and weekend classes.

The University of South Florida is a community engaged national research university with a strong desire and commitment to educate future generations of teachers, scholars, researchers, and professional leaders. We hope you will consider how we can help you to successfully create you own path to the future. Please accept my personal invitation to learn more about our graduate programs by contacting the Graduate School.

Delcie Durham, Ph.D.

Associate Provost for Research and Dean of the Graduate School
www.grad.usf.edu

Section 2
USF: A Multi-Campus National Research Institution

USF Mission, Goals, Values, Vision, Accreditation

USF Strategic Plan: http://www.ie.usf.edu/StrategicPlan/strategies.asp

USF Mission
The University of South Florida is a multi-campus national research university that supports the development of the metropolitan Tampa Bay Region, Florida, the United States and the world. Building upon unique strengths inherent in Florida's population, location, and natural resources, the university is dedicated to excellence in:

- Teaching and lifelong learning in a student-centered environment
- Research to advance knowledge and promote social, cultural, economic, educational, health, and technological development
- Service based on academic excellence and the ethic of community responsibility
- Community engagement to build university-community partnerships and collaborations

Goals
The University of South Florida will continue to expand its influence as a premier research university through:

- Strengthened research, creative, and scholarly endeavors
- Improved undergraduate and graduate academic programs that promote intellectual development and student success through a diverse, student-centered environment
- Engaged service that strengthens cultural and community life, and promotes lifelong learning and economic opportunity
- Increased fiscal self-sufficiency and appropriate state support

Values
The University of South Florida values:

- Teaching, research and service based on the highest standards of discovery, creativity, and intellectual attainment
- Development of the personal and professional potential of students, faculty, and staff, and enriching the quality of campus life
- An ethic of collegiality based on integrity, civility, academic freedom, professional responsibility, and collaboration among disciplines and units
- Access to an excellent education
- University/community engagement that increases the understanding of urban issues and advances community development
- Cultural and ethnic diversity and global understanding

Vision
The University of South Florida envisions itself as a premier national research university that serves the metropolitan Tampa Bay Region, Florida, and the nation through:

- Excellent undergraduate and graduate instruction in a student-centered environment
- Creative, innovative, engaged scholarly endeavors, and the furthering of advanced knowledge
- Education that promotes freedom, unity, democracy, and understanding in the presence of our Nation's historical diversity
- Generation and dissemination of knowledge to strengthen our society and the environment
- Greater fiscal self-reliance.

Accreditation
The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone 404-679-4500) to award degrees at the baccalaureate, master's, specialist, and doctoral levels, including the Doctor of Medicine.

University Administration

University Board of Trustees
The USF Board of Trustees was established by the Legislature in 2001. The 13 trustees include distinguished figure in the law, commerce, medicine, education, philanthropy and public policy leadership. Six trustees are appointed by the governor and five trustees are appointed by the Board of Governors. The Faculty Senate President and Student Body President also serve as trustees. The President of the University serves as Corporate Secretary. Information about each Trustee is available online at: http://usfweb2.usf.edu/board/members.html

Board of Trustees:

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Associate Dean of the Graduate School:	Brent Weisman, Ph.D.
Interim Assistant Dean for Student Success:	Joan Holmes, Ph.D.

College Graduate Program Coordinators:

School of Architecture and Community Design	Daniel Powers, M.Arch.
College of Arts and Sciences	Bruce Cochrane, Ph.D.
College of Business	Richard Meyer, Ph.D.
College of Education	Diane Briscoe, Ph.D.
College of Engineering	Rafael Perez, Ph.D.
College of Marine Science	Ted Van Vleet, Ph.D.
College of Medicine	Michael Barber, Ph.D.
College of Nursing	Mary Webb, Ph.D.
College of Public Health	Karen Liller, Ph.D.
College of Visual and Performing Arts	Barton Lee, Ph.D.
Graduate School	Delcie Durham, Ph.D.

Regional Campuses

The University of South Florida has four regional campuses: Tampa, Lakeland, Sarasota, and St. Petersburg. Contact information for each campus is below.

Tampa Campus
4202 E. Fowler Avenue
Tampa, Fl 33620
(813) 974-2011
Website: www.usf.edu

Lakeland Campus
3433 Winter Lake Road
Lakeland, FL 33803
(863) 667-7000
Website: www.lklnd.usf.edu

Sarasota Campus
5700 N. Tamiami Trail
Sarasota, FL 34243-2197
(941) 359-4200
Website: www.sar.usf.edu

St. Petersburg Campus
140 Seventh Avenue S.
St. Petersburg, FL 33701
(727) 553-1142
Website: www.stpt.usf.edu

Contact Information

Graduate School	Phone Number
Main Line	**(813) 974-2846**
Admissions	**(813) 974-8800**
Graduate School Dean's Office	
Associate Provost for Research and Dean of the Graduate School, Dr. Delcie Durham	(813) 974-7359
Executive Administrative Specialist, Eric Andersson	(813) 974-7359
Associate Dean, Dr. Brent Weisman	(813) 974-8173
Administrative Specialist, Nancy Graue	(813) 974-8173
Manager, Fiscal and Business Administration (Accounting), Mildred Howard	(813) 974-8356
Academic Affairs	
Associate Dean, Dr. Brent Weisman	(813) 974-8173
Administrative Specialist, Nancy Graue	(813) 974-8173
Academic Services Administrator (Curriculum and Policy), Carol Hines-Cobb	(813) 974-4239
Admissions Recruiter Advisor, Recruiting, Malcolm Randolph	(813) 974-7207
Graduate Student Services	
Interim Assistant Dean for Student Success, Dr. Joan Holmes	(813) 974-6363
Administrative Specialist, Michael Polk	(813) 974-7935
Admissions Recruiter Advisor, Rod Hale	(813) 974-3412
Academic Program Specialist (Theses and Dissertations), Janet Giles	(813) 974-5220
Administration and Operations	
Director, Dr. Ron Key	(813) 974- 7796
Administrative Specialist, Gloria Farmer	(813) 974-2847
Assistant Director, Admissions, Francisco Vera	(813) 974-2846
Systems Administrator, Joseph Butts	(813) 974-3586
Office Manager, Kokita Wilson	(813) 974-3810

Campus Contact Information	Phone Number
Campus Residence Halls	(813) 974-4310
Child Care	(813) 974-5142
Disabled Student Services	(813) 974-4309
Financial Aid	(813) 974-4700
Graduate and Professional Student Council (GPSC)	(813) 974-6939
International Admissions	(813) 974-5102
Library Resources-Information	(813) 974-2729
Student Employment and Career Resource Center	(813) 974-2171
Registration and Records	(813) 974-2000
Student Government	(813) 974-2401
Veterans Services	(813) 974-2291

Academic Calendar
August 2007-July 2008

The Academic Calendar is available online at: http://www.registrar.usf.edu/enroll/regist/calendt.php#0708

The Registrar's Calendar is available online at: http://www.registrar.usf.edu for semester begin/end dates, registration dates, graduation application deadlines, etc. Refer to the Cultural and Diversity Calendar at http://usfweb2.usf.edu/eoa/deo_calendar/default.asp for important religious and cultural dates to remember that may impact class attendance. Also refer to the USF Attendance Policy for the Observance of Religious Days by Students, at http://usfweb2.usf.edu/usfgc/gc_pp/acadaf/gc10-045.htm

Graduate School Events are posted on the Graduate School Calendar at www.grad.usf.edu/calendar and thesis/dissertation deadlines are available online at: http://www.grad.usf.edu/manuscriptdeadlines_new.asp

August 10	Summer B, last day of classes
August 11	Summer Commencement, Tampa
August 27	Fall, first day of classes
September 3	Labor Day
November 12	Veteran's Day
November 22 & 23	Thanksgiving Holiday
December 7	Fall, last day of classes
December 8 - 14	Final Exam Week
December 15	Fall, Tampa Commencement
December 25	Christmas Holiday
2008	
January 1	New Year's Holiday
January 7	Spring, first day of classes
January 21	Martin Luther King, Jr.
March 10 - 15	USF Spring Break
April 25	Spring, last day of classes
April 26 - May 2	Spring Final Exams
May 3	Spring Commencement, Tampa
May 12	Summer A & C, first day of classes
May 26	Memorial Day
June 20	Summer A, last day of classes
June 30	Summer B, first day of classes
July 4	Independence Day Holiday
July 18	Summer C, last day of classes
August 8	Summer B, last day of classes
August 9	Summer Commencement, Tampa
August 25	Fall, first day of classes – tentative

Section 3
Graduate Faculty and Research Interests

The following lists graduate faculty and research interests. The list is organized alphabetically by College, then by program, then by faculty name. Some faculty have courtesy appointments in other departments, so they may be listed more than once.

School of Architecture and Community Design

Name	Degree	Institution, year	Level	Research Interests
Baek, Jin	Ph.D.	University of Pennsylvania, 2004	Assistant Professor	Asian and Western Contemporary Architecture
Cooke, Steven	M. Arch	Virginia Polytechnic University, 1981	Associate Professor	Design Ethics
Dulaney, Ronald	M. Arch	Virginia Polytechnic University, 1997	Assistant Professor	Vernacular Architecture
Estrada, Vanessa	M. Arch	University of South Florida, 2002	Visiting Instructor	Contemporary Latin American Architecture
Green, Theodore Trent	M. Arch	Harvard University, 1986	Associate Professor	Community Planning
Halflants, Michael	M. Arch	University of Florida, 1998	Assistant Professor	Tropical Architecture
Hight, Charles C.	B. Arch.	Auburn University	Full Professor	Architecture and Technology Theory
Perez, Santiago	M. Arch	Harvard University, 1991	Assistant Professor	Digital Fabrication
Powers, Daniel	M. Arch	University of Florida, 1974	Associate Professor	History

College of Arts and Sciences

Name	Degree	Institution, year	Level	Research Interests
AGING STUDIES – *Contact the program for information.*				
AMERICAN STUDIES – *See Humanities/American Studies*				
ANTHROPOLOGY				
Angrosino, Michael	Ph.D.	University of North Carolina at Chapel Hill, 1972	Professor	Mental Health, Caribbean and Contemporary U.S.
Baer, Roberta	Ph.D.	University of Arizona, Tucson, 1984	Professor	Nutritional and Medical Anthropology, Ethno pharmacology, International development, Latin America and Contemporary U.S.
Bird, Elizabeth	Ph.D.	University of Strathclyde, U.K., 1980	Professor and Chair	Popular culture, Media; North American Indian and Visual Anthropology
Borman, Kathryn	Ph.D.	University of Minnesota, 1976	Professor	Educational Anthropology, Urban/Schools communities and Evaluation; Appalachia
Collins, Lori	MA	USF, 2002	Visiting Instructor	Southern Archaeology, Global Positioning Systems and Geographic Information Systems
Davis-Salazar, Karla	Ph.D.	Harvard University, 2001	Assistant Professor	Anthropological Archaeology, complex societies, human-environment interaction, water management, Gender, Mortuary ritual, ceramics, Maya, Mesoamerica and Central America
Greenbaum, Susan	Ph.D.	University of Kansas, 1981	Professor	Community Development, Urban Ethnicity, Native American Policies, Social Networks, Neighborhood revitalization and Ethno history
Himmelgreen, David	Ph.D.	SUNY, 1994	Associate Professor	Biological Anthropology, Nutrition, Maternal and Child health, HIV/AIDS, Southern Africa, India and Inner-City U.S.
Jackson, Antoinette	Ph.D.		Assistant Professor	Cultural and Historical Anthropology, ethnography, applied anthropology, plantation communities and heritage resource studies; American , African American, African Diaspora culture and U.S. and Caribbean
Madrigal, Lorena	Ph.D.	University of Kansas, 1988	Professor	Genetics, sickle-cell anemia, Human fertility, natural selecting and living populations and Costa Rica
Messing, Jacqueline	Ph.D.	University of Arizona, 2003	Assistant Professor	Linguistic Anthropology, Sociolinguistics, Multilingualism, Discourse Analysis, Language Shift, Language ideology, Identity, Applied Linguistics, Language and Power , Tran nationalism, Nahuatl/Mexicano, Mexico, Latin America, U.S.

Name	Degree	Institution, year	Level	Research Interests
Napora, John	Ph.D.	University of Virginia, 1998	Instructor	Sociocultural Anthropology, Economic Anthropology, Social Stratification, symbolic Anthropology, Anthropology of the Person, Religion and Ritual, Islam, the middle East and North Africa, Morocco, American Popular Culture
Patil, Crystal	Ph.D.		Assistant Professor	Biocultural anthropology, behavioral ecology of reproduction, breastfeeding, and weaning, psychosocial health, gender-based violence, applications to public health and policy, East Africa and African Refugees in the US
Purcell, Trevor	Ph.D.	Johns Hopkins University, 1982	Professor and Chair of Africana Studies	Caribbean/Central American Societies, African American Culture, Social Theory/Inequality, Political Economy, Indigenous Knowledge, Costa Rica, Jamaica
Romero-Daza, Nancy	Ph.D.	SUNY, 1994	Associate Professor	Medical Anthropology, HIV/AIDS, Women's Health, Drug Addiction, Southern Africa
Tykot, Robert	Ph.D.	Harvard University, 1995	Associate Professor	Archaeological Science, Mediterranean Prehistory, Old World Archaeology, Ancient Diets around the world, Bone chemistry, Exchange Studies, Obsidian, Marble and Sardinia
Ward, Beverly	Ph.D.	USF, 2000	Visiting Sr. Research Associate	Cultural Anthropology and Urban Ethnicity
Weisman, Brent	Ph.D.	University of Florida, 1987	Professor	Historical and Public Archaeology, Oral History, Culture Contact and Native Americans
Wells, Christian	Ph.D.	Arizona State University, 2003	Assistant Professor	Archaeology of Mesoamerica and the American Southwest, complex societies, Political and Ritual Economy, Ceramic and Soil Analysis and quantitative Methods
White, Nancy	Ph.D.	Case Western Reserve University, 1982	Professor	New World Prehistory, CRM, Public Archaeology, Gender, Eastern U.S. Archaeology And Theory
Whiteford, Linda	Ph.D.	Wisconsin-Milwaukee, 1979	Professor	Medical, Applied Anthropology, Public Health, Health Care delivery; reproduction; Caribbean and Latin America
Yelvington, Kevin	Ph.D.	University of Sussex, 1991	Associate Professor	Social Anthropology, Ethnicity, Class and Gender, Work and Class, Development Studies, Historical Approaches, Latin America, Caribbean and U.S.
BIOLOGY				
Arendash, Gary	Ph.D.	University of California, 1978	Professor	Neuroscience
Bell, Susan	Ph.D.	University of South Carolina, 1979	Professor	Marine Ecology
Cochrane, Bruce	Ph.D.	Indiana University, 1979	Professor	Evolutionary Genetics

Name	Degree	Institution, year	Level	Research Interests
Dao, My Lien	Ph.D.	University of Ok Health Sciences, 1978	Associate Professor	Molecular Microbiology/Immunology
Deban, Stephen	Ph.D.	University of California, Berkley, 1997	Assistant Professor	Physiology, Biomechanics and Evolution
Essign, Frederick	Ph.D.	Cornell University, 1975	Associate Professor	Plant Systematics
Fox, Gordon	Ph.D.	University of Arizona, 1989	Assistant Professor	Plant ecology, conservation biology, population biology
Garey, James	Ph.D.	University of Texas, Austin, 1987	Associate Professor	Molecular Evolutionary Genetics
Harwood, Valerie	Ph.D.	Old Dominion University/East Virginia Medical School, 1992	Associate Professor	Water quality microbiology and microbial ecology
Lawrence, John	Ph.D.	Stanford University, 1966	Professor	Marine ecology and Physiology
Lim, Daniel	Ph.D.	Texas A&M, 1973	Professor	Pathogenic Microbiology
Livingston, Brian	Ph.D.	University of California, Santa Barbara, 1987	Associate Professor	Developmental Biology, Molecular Evolution
McCoy, Earl	Ph.D.	Florida State University, 1977	Professor	Conservation Ecology
Moore, Jessica	Ph.D.	University of Texas, Austin, 1994	Assistant Professor	Developmental Genetics
Motta, Philip	Ph.D.	University of Hawaii, 1980	Professor	Functional Morphology
Mushinsky, Henry	Ph.D.	Clemson University, 1973	Professor	Herpetology
Pierce, Sidney	Ph.D.	Florida State University, 1970	Professor and Chair	Cellular Physiology and Biochemistry
Pollenz, Richard	Ph.D.	Northwestern University, Chicago, 1991	Associate Professor	Environmental Molecular Toxicology, Cell Biology
Romeo, John	Ph.D.	University of Texas, Austin, 1973	Professor	Chemical Ecology
Sarno, Ronald	Ph.D.	Iowa State University, 1997	Assistant Professor	Evolutionary Biology, Behavioral Ecology and Conservation Biology

Name	Degree	Institution, year	Level	Research Interests
Schmidt, Kristina	Ph.D.	University of Edinburg, UK, 1999	Assistant Professor	Genetics
Scott, Kathleen	Ph.D.	Penn State University at University Park, 1998	Assistant Professor	Microbial physiology and biogeochemistry
Stiling, Peter	Ph.D.	University College, Cardiff, UK, 1979	Professor	Ecology
TeStrake, Diane	Ph.D.	Duke University, 1963	Professor	Mycology and Microbiology
Thomas, Florence	Ph.D.	University of California Berkeley, 1992	Professor	Marine Ecology/Biomechanics
Wunderlin, Richard	Ph.D.	St. Louis University, 1973	Professor	Plant Systematics
CHEMISTRY – Contact program for information				
COMMUNICATION SCIENCES AND DISORDERS				
Bahr, Ruth	Ph.D.	University of Florida, 1987	Associate Professor	Speech production in children and adults; Prosody; Speech planning; Phonological Awareness; Forensic Phonetics; Bilingualism
Bess, Lily	M.A.	New York University	Instructor	
Blake-Rahter, Patricia	Ph.D.	Vanderbilt University, 1997	Clinical Instructor	Aural Rehabilitation for Children and Adults; Educational Audiology; FM & Classroom Acoustics; Assistive Listening Technology; Cochlear Implant Rehabilitation; Deaf Education
Carr, Patricia	Au.D.	University of South Florida, 2001	Clinical Instructor	Clinical Audiology; Central Auditory Processing
Champion, Tempii	Ph.D.	University of Massachusetts 1995	Associate Professor	Child Language; Narrative Production; African American English; Multicultural Issues in Speech-Language Pathology
Hnath Chisolm, Theresa	Ph.D.	Graduate School of the City University of New York, 1987	Department Chair, Professor	Aural Rehabilitation; Speech Perception and Sensorineural Hearing Loss; Sensory Aids for the Hearing Impaired
Clements, William "Bo"	M.A.	Florida State University	Instructor	
Constantine, Joseph	Ph.D.	University of South Florida, 2004	Instructor	

Name	Degree	Institution, year	Level	Research Interests
Crain, Kelly	Ph.D.	Gallaudet, 2003	Assistant Professor	Deaf Education
Diehl, Sylvia	Ph.D.	University of South Florida, 1991	Clinical Instructor	Autism Spectrum Disorder
Donaldson, Gail	Ph.D.	University of Virginia, 1990	Assistant Professor, Audiology Graduate Admissions Officer	Cochlear Implants
Fernandez, Carol	Ed.S.	University of South Florida, 1986	Clinical Instructor, Speech Pathology Clinic Director	Child Language; Literacy
Ford, Carolyn	Ed.D.	University of South Florida, 1996	Clinical Instructor	Child Language; Preschool Language; Phonology; Apraxia; Literacy
Freeman-LeVay, Darla	M.A.	Ohio State University, 1992	Clinical Instructor	Voice Rehabilitation; Adult Neurogenic Communication Disorders; Accent Modification
Frisch, Stefan	Ph.D.	Northwestern University, 1996	Assistant Professor, Interim Ph.D. Program Director	Speech Production & Perception; Metalinguistic Knowledge; Modeling
Graham, Sandra	Ph.D.	University of South Florida, 1998	Clinical Instructor	Supervision; School Age Language
Guilford, Arthur	Ph.D.	University of Michigan, 1970	Professor	Neurogenic Communication Disorders; Dysphagia.
Hinckley, Jacqueline	Ph.D.	Michigan State University, 1999	Associate Professor	Neurogenic Communication Disorders
Howland, Denise	M.S.	University of South Florida, 1985	Instructor	Medically Fragile Pediatrics
Hurley, Raymond	Ph.D.	University of Michigan, 1976	Associate Professor	Hearing Science; Evoked Potentials; Otoacoustic Emissions; Medical Audiology
Krause, Jean	Ph.D.	Mass Institute of Technology, 2001	Assistant Professor	Deafness and Communication; Educational Interpreting/Transliterating; Speech Perception and Sensorineural Loss
Laughlin, Veronica	M.S.	Louisiana State University, 1982	Clinical Instructor, Undergraduate Program Director	Aural Rehabilitation; Language Disorders Children

Name	Degree	Institution, year	Level	Research Interests
Lister, Jennifer	Ph.D.	University of South Alabama, 1999	Associate Professor, Audiology Graduate Program Director	Temporal Processing; Aging; Speech Perception in Reverberation and Noise
Maxfield, Nathan		Graduate School, City University of New York 2005		Neuromotor Speech Disorders; Fluency; Evoked Potentials
Pashek, Gail	Ph.D.	University of Pittsburgh, 1995	Assistant Professor	Aging; Dementia; Traumatic Brain Injury; Adult Neurogenics
Patterson, Nancy	Au.D.	University of South Florida, 2001	Clinical Instructor	Educational Audiology; Aural Rehabilitation Children and Adults; Cochlear Implant Rehabilitation; Assistive Technology
Paul, Cheryl	M.S.	University of South Florida, 1990	Clinical Instructor	Adult Neurogenics
Richardson, Karen	Au.D.	University of South Florida, 2001	Clinical Instructor, Audiology Externship Coordinator	Electrophysiology; Amplification; Administration and Supervision
Rogers, Catherine	Ph.D.	Indiana University, 1997	Associate Professor	Foreign Accent; Speech Technology; Speech Perception & Production
Silliman, Elaine	Ph.D.	City University of New York, 1976	Professor	Child Language; Oral Language-Literacy; Bilingualism; Discourse Analysis; Prosody
Surrency, Steven	M.A.	University of South Florida, 2005	Coordinator, Interpreter Training Program	Oppressed Languages; the Semantics/Syntactic Interface and the Transfer of Meaning Between Languages(Semantics in Translation)
Zelski, Robert	Au.D.	University of South Florida, 2000	Clinical Instructor	Amplification; Business and Practice Management; Ethics
CRIMINOLOGY				
Beauregard, Eric	Ph.D.	University of Montreal, 2005	Asst. Professor	Sex offenders, Offending process, Psychological & geographic profiling
Blount, William	Ph.D.	George Peabody College for Teachers, 1969	Professor	Evaluation research, Addictions, Law Enforcement
Bromley, Max	Ed.D.	Nova University, 1992	Assoc. Professor	Campus crime and policing, Community policing, Police administration

Name	Degree	Institution, year	Level	Research Interests
Cochran, John	Ph.D.	University of Florida , 1987	Professor	Capital punishment, Criminological theory
Cuadrado, Mary	Ph.D.	The Graduate Center-CUNY, 1997	Assoc. Professor USF Sarasota	Addictions; Deviance & ethnicity (Hispanics); Women in CJ
Dembo, Richard	Ph.D.	New York University, 1970	Professor	Interventions for at-risk youths, Drug use, Juvenile justice/delinquency
Fridell, Lorie	Ph.D.	University of California, Irvine, 1987	Assoc. Professor	Police use of force, Violence against police, Racial profiling
Heide, Kathleen	Ph.D.	The University at Albany, 1982	Professor	Parricide, Juvenile homicide, Child abuse, Treatment of offenders & victims
Jones, Shayne	Ph.D.	University of Kentucky, 2003	Asst. Professor	Social psychology of antisocial behav., Psychopathy, Life-course criminology
Lersch, Kim	Ph.D.	University of Florida, 1995	Assoc. Professor USF Lakeland	Police deviance, Neighborhoods and crime, Crime mapping
Lynch, Michael	Ph.D.	The University at Albany, 1988	Professor	Environmental crime & regulation, Class, race & crime, Corporate crime
Mieczkowski, Thomas	Ph.D.	Wayne State University, 1985	Professor	Drug epidemiology, distribution systems, and testing technology
Palacios, Wilson	Ph.D.	University of Miami, 1996	Assoc. Professor	Drug use/abuse, Latino/a criminality
Sellers, Christine	Ph.D.	University of Florida, 1987	Assoc. Professor	Criminological theory, Intimate partner violence, Juv. delinquency
Smith, Dwayne	Ph.D.	Duke University, 1980	Professor	Homicide, Capital Punishment
Sullivan, Christopher	Ph.D.	Rutgers University, 2005	Asst. Professor	Developmental Criminology; Crime, drugs, & mental health
ENGLISH – Contact program for information				
ENVIRONMENTAL SCIENCE AND POLICY - *Contact program for information*				
GEOGRAPHY				

Name	Degree	Institution, year	Level	Research Interests
Archer, Kevin	Ph.D..	John Hopkins, Baltimore MD 1990	Associate Professor	Urban Geography, Political Geography, Social Theory
Basu, Pratyusha	Ph.D..	University of Iowa, Iowa City, Iowa 2003	Assistant Professor	Rural Economies, Environmental Movements, Gender Issues
Bosman, Martin	Ph.D..	University of Kentucky, Lexington, KY 1999	Assistant Professor	History and Philosophy of Geographic Thought, Global City Formation
Brinkmann, Robert	Ph.D..	University of Wisconsin-Milwaukee, Milwaukee, WI 1989	Full Professor	Human alteration of soils, sediments, and water; karst geomorphology
Chakraborty, Jayajit	Ph.D..	University of Iowa, Iowa City, Iowa 1999	Associate Professor	Interactions between technology, society, and the environment
Collins, Jennifer	Ph.D..	University College London, London England 2001	Assistant Professor	Tropical climatology, hurricane activity
Haten, Mark	Ph.D	University of South Florida, Tampa, FL 2001	Instructor	Water Quality & Conservation, Wetlands Hydrology & Ecology, Coastal Sedimentary Processes
Reader, Steven	Ph.D.	University of Bristol, Bristol, England 1991	Associate Professor	Geographical Information Systems, computer cartography, spatial analysis
Reeder, Philip	Ph.D.	University of Wisconsin-Milwaukee, Milwaukee, WI 1992	Associate Professor	Water Resources, Geoarchaeology, Hydrology
Storm, Elizabeth	Ph.D..	City University of New York, New York, NY 1996	Associate Professor	Urban development; urban governance; arts and cultural policies
Tobin, Graham	Ph.D..	University of Strathclyde, Glasgow, Scotland 1978	Full Professor	Natural Hazards, Water resources management and policy, Environmental contamination
Zandberger, Paul	Ph.D..	University of British Columbia, Vancouver, BC 1998	Associate Professor	GIS, Spatial Analysis and Modeling, Water Resources
GEOLOGY – Contact program for information				

Name	Degree	Institution, year	Level	Research Interests
GOVERNMENT AND INTERNATIONAL AFFAIRS (GIA) **~ International Studies ~**				
Amen, M. Mark	Ph.D.	University of Geneva	Associate Professor	globalizing cities, international relations theories, global financial markets
Conteh-Morgan, Earl	Ph.D.	Northwestern University	Full Professor	Globalization and Collective Violence, Human Security and Peacebuilding, State Failure in Africa
Hechiche, Abdelwahab	Docteur en Etudes Orientales	The Sorbonne	Full Professor	International Law and Human Rights, Middle East, peace studies, international relations
Miller, Michael J.	Ph.D.	University of Miami	Assistant Professor	Environmental Policy, International Relations
Peng, Dajin	Ph.D.	Princeton University	Associate Professor	International political economy, Japan, East Asia
Pynes, Joan	Ph.D.	Florida Atlantic University	Full Professor	Human resources management, Labor relations in the public and nonprofit sectors, Public & Nonprofit Management
Roach, Steven	Ph.D.	University of Denver	Assistant Professor	Human rights and globalization, international law and organizations, international critical theory
Slider, Darrell	Ph.D.	Yale University	Full Professor	Russian and post-Soviet politics, federalism, local government, politics of the Caucasus
Solomon, M. Scott	Ph.D.	Syracuse University	Assistant Professor	Globalization, Migration, International Political Economy
GOVERNMENT AND INTERNATIONAL AFFAIRS (GIA) **~ Latin and Caribbean Studies ~**				
Nef, Jorge	Ph.D.	University of California at Santa Barbara	Full Professor	Human security, Lain America, international development
GOVERNMENT AND INTERNATIONAL AFFAIRS (GIA) **~ Political Science ~**				
Barylski, Robert	Ph.D.	Harvard University	Associate Professor	Russia, Marxist-Leninist regimes
Benton, J. Edwin	Ph.D.	Florida State University	Full Professor	intergovernmental relations, state and local government and politics, public policy analysis
Caruson, Kiki	Ph.D.	University of Georgia	Assistant Professor	American Government, Presidency
Gibbons, Michael	Ph.D.	University of Massachusetts	Associate Professor	Political Theory, American Founding, politics and literature
Hall, Cheryl	Ph.D.	Princeton University	Associate Professor	political theory, feminist theory

Name	Degree	Institution, year	Level	Research Interests
Johnston, Steven	Ph.D.	Johns Hopkins University	Associate Professor	Political theory, democratic theory
MacManus, Susan	Ph.D.	Florida State University	Distinguished Professor	American Campaigns & Elections, State & Local Politics & Policy, Intergovernmental Relations
Merrick, Janna	Ph.D.	University of Washington	Full Professor	Public policy, public administration, American politics
Milani, Mohsen	Ph.D.	University of Southern	Full Professor	Middle East, comparative revolutionary movements
Morehouse, Lawrence	Ph.D.	Cornell University	Associate Professor	Public law, judicial politics
Rigos, Platon	Ph.D.	Michigan State University	Associate Professor	Urban government and politics, public policy
Tauber, Steven	Ph.D.	University of Virginia	Associate Professor	Judicial politics, American politics, race and politics
Vanden, Harry	Ph.D.	The New School for Social Research	Full Professor	Latin America, Marxist theory, international law
GOVERNMENT AND INTERNATIONAL AFFAIRS (GIA) ~ Public Administration ~				
Benton, J. Edwin	Ph.D.	Florida State University	Full Professor	Intergovernmental relations, state and local government and politics, public policy analysis
Calabrese, Stephen	Ph.D.	Carnegie Mellon University	Assistant Professor	political economy, public administration
Daly, John	Ph.D.	Indiana University	Associate Professor	Human Resource Management, Labor Relations, Public Policy, HIV-AIDS in Southern Africa
Jreisat, Jamil	Ph.D.	University of Pittsburgh	Full Professor	Public administration, comparative administration, budgeting
Neubauer, Bruce	D.P.A.	University of Georgia	Assistant Professor	E-government, Information systems, Service-oriented architecture
Rigos, Platon	Ph.D.	Michigan State University	Associate Professor	Urban government and politics, public policy
HISTORY – Contact program for information				
HUMANITIES / AMERICAN STUDIES				
Banes, Ruth	Ph.D.	University of New Mexico, 1978	Associate Professor	American South, Native American Culture

Name	Degree	Institution, year	Level	Research Interests
Belgrad, Daniel	Ph.D.	Yale, 1996	Associate Professor	American culture, Mexican culture, cultural theory
Berish, Andrew	Ph.D.	University of California, Los Angeles, 2004	Visiting Assistant Professor	Jazz; Ideas of Place; American History and Modernity
Brewer, Priscilla	Ph.D.	Brown University, 1987	Full Professor	19th and early 20th century American culture Women's higher education
Cizmic, Maria	Ph.D.	University of California, Los Angeles, 2004	Assistant Professor	Trauma, pain, and memory as they shape late 20th century East European art and music
D'Emilio, James	Ph.D.	University of London, 1989	Associate Professor	1. culture and society in medieval Galicia (Spain) 2. monasticism in medieval Spain 3. Romanesque architecture and sculpture
Gaggi, Silvio	Ph.D.	Ohio University, 1972	Department Chair, Full Professor	20th Century Film; Technoculture
Kantzios, Niki	Ph.D.	Bryn Mawr, 1999	Visiting Assistant Professor	Phoenicians, Greece and the Near East in the Iron Age, the transmission of imagery from culture to culture in the Mediterranean and Near East in antiquity
Novoa, Adriana	Ph.D.	University of California, San Diego, 1998	Assistant Professor	Gender History and Identity; Modern Latin American Culture, History and Identity
Ortiz, Mario	Ph.D.	University of Houston, 1990; Indiana University, 2000	Assistant Professor	Latin American History and Culture; Sor Juana Ines de la Cruz
Yavneh, Naomi	Ph.D.	University of California, Berkeley, 1991	Associate Professor	Renaissance Women
Nef, Jorge	Ph.D.	University of California at Santa Barbara, Santa Barbara CA, 1973	Full Professor / Director	Human Security, International Development, Comparative Politics
Smith, Timothy J.	Ph.D.	University at Albany, State University of New York; Albany NY , 2004	Faculty Administrator/ Associate Director	Indigenous Movements and Electoral Politics, Maya Intellectuals, Guatemala
LIBRARY AND INFORMATION SCIENCE (LIS)				
Alexander, Linda	Ed.D.	Univ. of Louisville	Asst. Professor	Intellectual Freedom, Young Adult Materials and Multicultural Issues.
Andrews, James	Ph.D.	Univ. of Missouri	Asst. Professor	Medical informatics; Health-related information behaviors.

Name	Degree	Institution, year	Level	Research Interests
Ariew, Susan	M.S.	Univ. of Illinois	Instructor	Collaborative relationships between librarians and academic faculty, diversity resources for teachers, and assessment tools for evaluating library instruction and student learning.
Austin, Diane	M.Ed.	Penn. State Univ.	Instructor	Virtual Communities
Blazek, Ronald	Ph.D.	Univ. of Illinois	Professor Emeritus	Reference and American library history.
Carey, Jim	Ph.D.	Florida State Univ.	Assoc. Professor	Outcomes assessment and strategic planning, product and program evaluation, instructional systems design.
Cox, Kiersten	M.L.I.S. M.A.I.A.	Univ. of Hawaii	Instructor	Information literacy and Southeast Asian librarianship.
Dee, Cheryl	Ph.D.	Florida State Univ.	Asst. Professor	Historical medical research with digital library building, Health care professional information seeking behavior and Consumers' health information seeking behavior.
Dunkley, Cora	Ph.D.	Florida State Univ.	Asst. Professor	Multicultural Literature for Children and Young Adults, Diversity in Librarianship, School Media Center Management.
Gregory, Vicki	Ph.D.	Rutgers, State Univ. of N.J.	Professor Director	Virtual Communities, Digital Copyright and Distance Education.
Kwon, Nahyun	Ph.D.	Univ. of Wisconsin	Asst. Professor	Info. use studies: info. seeking behavior, info. needs & uses in diverse social contexts and Service evaluation.
Maatta, Stephanie	Ph.D.	Florida State Univ.	Asst. Professor	Career trends and professionalism and Adult reading trends.
De La Pena, Kathleen	Ph.D.	Univ. of Wisconsin	Distinguished Univ. Professor	Human rights, social justice and librarianship, libraries as cultural heritage institutions.
Pace, Mel	M.A. in LIS	Univ. of South Florida	Instructor/Assoc. Director	School library media leadership, development & advocacy and technology integration in all educational environments.
Perrault, Anna	Ph.D.	Florida State Univ.	Professor	Development & management of info. resources; evaluation & assessment of info. resources; bibliometrics of academic library collections.
Slone, Debra	Ph.D.	Univ. of N. Carolina	Asst. Professor	Usability of Info.systems, end-user info. seeking, design of visual analysis tools for qualitative research.
Smith, Drew	M.A.	Univ. of South Florida	Instructor	Genealogy, Information Literacy and College Level Teaching and Learning.
Terrell, Tom	Ed.D.	Univ. of Central Florida	Asst. Professor	Structures & processes of non-text information; Knowledge visualization; distance learning & distance learner requirements.

Name	Degree	Institution, year	Level	Research Interests
Wohlmuth, Sonia	M.A.	Univ. of Illinois/USF	Instructor	Automated translation systems; multilingual computer/user interfaces; library services to the Spanish-speaking and other language minorities in the United States; language policy; historical phonology.
LIS ADJUNCTS				
Name	**Degree**	**Institution, year**	**Level**	**Research Interests**
Austin, Richard			Adjunct	
Beach, Kevin			Adjunct	
Brenenson, Stephanie			Adjunct	
Hansen, Jamie			Adjunct	
Correll, Barbara			Adjunct	
Balleste, Roy			Adjunct	
Smith, Henrietta	Ph.D.	Univ. of Miami	Professor Emerita	
Sapp, Mary (Angie)			Adjunct	
MASS COMMUNICATIONS – Contact program for information				
MATHEMATICS				
Bieske, Thomas	Ph.D.	University of Pittsburgh, Pittsburgh, PA, 1999	Assistant Professor	Differential Equations, Viscosity Solutions, Sub-Riemannian Geometry
Burgos, Fernando	Ph.D.	Northeastern University, Boston, MA, 1988	Instructor	Selection and Ranking of Populations
Curtin, Brian	Ph.D.	University of Wisconsin, Madison, Wisconsin, 1996	Assistant Professor	Algebraic combinatorics of distance-regular graphs, spin models, Bose-Mesner algebras, and planar
Danielyan, Arthur A.	Ph.D.	Armenian Academy of Science, 1987	Instructor	Complex Analysis and Approximation Theory

Name	Degree	Institution, year	Level	Research Interests
Elhamdadi, Mohamed	Ph.D.	University of Nice-Sophia Antipolis, 1996	Instructor	Low dimensional Topology, Knot Theory and K-theory
Grinshpan, Arcadii Z.	Ph.D.	St. Petersburg and Donetsk State Universities, 1973	Instructor	Complex analysis and engineering problems
Hou, Xiang-Dong	Ph.D.	University of Illinois, Chicago, IL, 1990	Assistant Professor	Algebra, Comboinatorics, and Cryptography
Jonoska, Natasha	Ph.D.	SUNY-Binghamton, Binghamton, NY, 1993	Associate Professor	Automata theory, symbolic dynamics, DNA based computing, formal language theory
Kartsatos, Athanassios G.	Ph.D.	University of Athens, 1969	Professor	Nonlinear functional analysis, differential equations in Banach spaces
Krajcevski, Mile	Ph.D.	SUNY-Binghamton, Binghamton, NY, 1995	Instructor	Combinatorial group theory, geometric group theory
Ma, Wen-Xiu	Ph.D.	Academia Sinica, 1990	Associate Professor	Integrable systems, solution theory, computer algebra
Mapougian, Manoug	Ph.D.	University of Texas, 1968	Professor	Existence theory for nonlinear ordinary and partial differential equations
McColm, Gregory	Ph.D.	UCLA, Los Angeles, CA, 1986	Associate Professor	Mathematical logic in computer science, finite and infinite combinatorics
McWaters, Marcus M.	Ph.D.	University of Florida, Gainesville, FL, 1966	Associate Professor	Topology, topological algebra, algebraic topology
Mukherjea, Arnunava	Ph.D.	Wayne State University, Detroit, MI, 1967	Professor	Probability on algebraic structures, Markov chains, multivariate analysis, random matrices
Rakhmanov, Evguenii A.	Ph.D.	Steklov Mathematics Institute, 1978	Professor	Approximation theory, orthogonal polynomials
Ramachandran, Kandethody	Ph.D.	Brown University, Providence, RI, 1987	Professor	Stochastic control problems

Name	Degree	Institution, year	Level	Research Interests
Rao, A.N.V.	Ph.D.	University of Rhode Island, Kingston, RI, 1971	Professor	Reliability analysis, stochastic modeling, stochastic control systems
Ratti, Jogindar	Ph.D.	Wayne State University, Detroit, MI, 1966	Professor	Real analysis, complex analysis, graph theory
Rimbey, Scott	Ph.D.	UCLA, Los Angeles, CA, 1984	Instructor	Computational Fluid Dynamics with emphasis on Transonic Flow Calculations
Saito, Masahiko	Ph.D.	University of Texas, Austin, TX, 1990	Associate Professor	Geometric topology, knot theory, invariants of knots and manifolds, knotted surfaces in 4-space
Shekhtman, Boris	Ph.D.	Kent State University, Kent, OH, 1980	Professor	Approximation theory, Abstract and Classical Analysis
Skrzypek, Leslaaw	Ph.D.	Jagiellonian University, Krakow, Poland, 2001	Assistant Professor	Approximation theory, Minimal Projections
Stark, W. Richard	Ph.D.	University of Wisconsin-Madison, Madison, WI, 1975	Professor	Theory of computation, logic; models of biological information processing
Suen, Stephen	Ph.D.	University of Bristol, Bristol, UK, 1985	Associate Professor	Combinatorics; theoretical computer science
Totik, Vilmos	Ph.D.	Hungarian Academy of Sciences, 1981	Professor	Approximation theory, orthogonal polynomials, potential theory
Tsokos, Chris P.	Ph.D.	University of Connecticut, Storrs, CT, 1968	Distinguished University Professor	Stochastic models; Bayesian reliability analysis; forecasting
Williams, Carol A.	Ph.D.	Yale University, New Haven, CT, 1967	Professor	Celestial mechanics, dynamics, perturbation methods, Hamilton dynamics
Yanev, George P.	Ph.D.	University of Sofia, 1991	Assistant Professor	Branching Processes, Bayesian Statistics, Applied Statistics
You, Yuncheng	Ph.D.	University of Minnesota, Minneapolis, MN, 1988	Professor	Differential Equations, Control Theory and Dynamical Systems

Name	Degree	Institution, year	Level	Research Interests
PHILOSOPHY				
Anton, John P.	Ph.D.	Columbia University, 1954	Full Professor	Greek Philosophy, Aristotle, History of Philosophy, Byzantine Thought, Philosophy of Literature, Ancient Philosophy, Aesthetics, Metaphysics
Ariew, Roger	Ph.D.	University of Illinois, Urbana-Champaign, 1976	Full Professor	Early Modern Philosophy and Science, especially Descartes and Leibniz; History and Philosophy of Science, especially Duhem
Guignon, Charles B.	Ph.D.	University of California, Berkeley, 1979	Full Professor	Continental Philosophy, Hermeneutics, Moral Value, Psychotherapy
Heydt, Colin	Ph.D.	Boston University, 2003	Assistant Professor	History of Philosophy, Ethics
Levine, Alexander T.	Ph.D.	University of California, San Diego, 1994	Associate Professor	Philosophy of Mind, Philosophy of Science, Philosophy of Language
Sadler, Brook	Ph.D.	Duke University, 2001	Assistant Professor	Contemporary Ethical Theory, History of Moral Philosophy, Kantian Moral Philosophy, Feminist Philosophy, Philosophy of Love and Friendship
Schöfeld, Martin	Ph.D.	Indiana University, 1995	Associate Professor	History of Modern Philosophy, Kant, 18th Century Thought, Environmental Ethics, Chinese Philosophy
Schutte, Otelia	Ph.D.	Yale University, 1978	Full Professor	Feminist Philosophy, Nietzsche, Women's Studies
Turner, Stephen P.	Ph.D.	University of Missouri, 1975	Graduate Research Professor	History and Philosophy of Social Science, Political Philosophy, History of 20th Century Philosophy
Waugh, Joanne B.	Ph.D.	University of Southern California, 1980	Associate Professor	Classical Philosophy, Aesthetics, Feminist Philosophy, Continental Philosophy
Weatherford, Roy	Ph.D.	Harvard University, 1972	Full Professor	Ethics, Epistemology
Weiskopt, Daniel A.	Ph.D.	Washington University in St. Louis, 2003	Assistant Professor	Philosophy of Mind, Philosophy of Language, Cognitive Science
Williams, Thomas	Ph.D.	University of Notre Dame, 1994	Associate Professor	Medieval Philosophy, History of Ethics, Philosophy of Religion
Winsberg, Eric B.	Ph.D.	Indiana University, 1999	Assistant Professor	Philosophy of Science, Epistemology, Logic, Philosophy of Mind
Wiredu, Kwasi	B. Phil.	Oxford University, 1960	Distinguished University Professor	African Philosophy, Epistemology, Metaphysics, Philosophy of Logic

Name	Degree	Institution, year	Level	Research Interests
PHILOSOPHY – Courtesy Appointments				
Axinn, Sidney	Ph.D.	University of Pennsylvania, 1955	Courtesy Faculty, Professor Emeritus, Philosophy Temple University	Ethics, Kant, History of Philosophy
Chitwood, Ava	Ph.D.	John Hopkins University, 1992	Courtesy Faculty, Assistant Professor , Classics, USF Tampa	Archaic Literature and Philosophy, Classics
Gibbons, Michael T.	Ph.D.	University of Massachusetts, 1978	Courtesy Faculty, Associate Professor , Political Science USF Tampa	Political Science, Political Thought, Continental Philosophy
LaFollette, Hugh	Ph.D.	Vanderbilt University, 1976	Courtesy Faculty, Cole Chair in Ethics, USF St. Petersburg	Practical Ethics, Ethical Theory, Social and Political Philosophy
Bell, James A.	Ph.D.	Boston University	Professor Emeritus	Philosophy of Science, Method in Philosophy of Social Sciences, Existential Philosophy
McAlister, Linda Lopez	Ph.D.	Cornell University	Professor Emerita	Feminist Theory, Feminist Ethics, History of Women in Philosophy, Franz Brentano
Silver, Bruce	Ph.D.	University of Colorado, 1971	Professor Emeritus	History of Modern Philosophy
Taylor, Richard	M. Phil.	Yale University, 1969	Associate Professor Emeritus	Philosophy of Religion, Existentialism
PHYSICS				
Buonaquisti, Anthony	Ph.D.	Lancaster University, UK 1981	Instructor	Physics Education, Analytical Instrumentation for Materials Characterization
Chang, Robert	Ph.D.	Cornell University, 1976	Full Professor	Solid State Laser Spectroscopy, Energy Transfer Studies, Crystal Growth, Fiberoptics
Chen, Wei	Ph.D.	Temple University, 1988	Full Professor	Biophysics & Physiology

Name	Degree	Institution, year	Level	Research Interests
Djeu, Nicholas	Ph.D.	Cornell University, 1970	Full Professor	Laser Physics, Non-linear Optics, Fiberoptics
Halder, Narayan	Ph.D.	Indian Institute of Technology, 1963	Full Professor	Semiconductor & Ceramic Physics
Johnson, Dale	Ph.D.	University of Chicago, 1971	Full Professor	Electron Microscopy
Kllinger, Dennis	Ph.D.	Michigan State, 1978	Full Professor Distinguished University Professor	Quantum Electronics & Laser Physics, Laser Remote Sensing/LIDAR, Laser Spectroscopy
Kim, Myung	Ph.D.	University of California, Berkeley, 1986	Full Professor	Quantum Optics, Laser Spectroscopy, Photonics, Photon Echoes
Lo, Chun-Min	Ph.D.	Rensselaser Polytechnic Institute, 1994	Assistant Professor	Biophysics
Matthews, Jr., Wm Garrett	Ph.D.	University of North Carolina, 2001	Assistant Professor	Biological macromolecules & Micromolecular, Biopolymers
Mukherjee, Pritish	Ph.D.	SUNY, Buffalo, 1986	Full Professor	Picosecond Lasers & Applications, Laser Assisted Materials Growth, Semiconductor & Superconductor Physics
Muschol, Martin	Ph.D.	City University of New York, 1992	Assistant Professor	Neuronal Plasticity, Advanced Optical Techniques & Probe Cellular Mechanisms, Protein Crystallization
Nolas, George	Ph.D.	Stevens Institute of Technology, 1994	Associate Professor	Novel Materials Synthesis & Characterization
Oleynik, Ivan	Ph.D.	Russian Academy of Sciences, 1992	Assistant Professor	Material Physics, Atomistic Modeling of Thin Films
Rabson, David	Ph.D.	Cornell University, 1991	Associate Professor	Condensed Matter Theory
Sakmar, Ismail	Ph.D.	University of California, Berkeley, 1963	Visiting Professor	High Energy Particle Physics, Number Theory
Srikanth, Hariharan	Ph.D.	Indian Institute of Technology, 1993	Associate Professor	Experimental Condensed Matter, Materials Sciences
Witanachchi, Sarath	Ph.D.	SUNY, Buffalo, 1989	Associate Professor	Laser Abalation, Films, High-Tc Superconductors, Semiconductors
Woods, Gerald	Ph.D.	University of Tennessee at Knoxville, 2001	Instructor	Materials Science, Spectroscopy of Magnetic and Non-magnetic Materials

Name	Degree	Institution, year	Level	Research Interests
Woods, Lilia	Ph.D.	University of Tennessee at Knoxville, 2001	Assistant Professor	Theoretical, Semiconductor Nano Structures
PSYCHOLOGY – Contact the program for information				
RELIGIOUS STUDIES – Contact the program for information				
SOCIOLOGY				
Cahill, Spencer	Ph.D.	U.C.-Santa Barbara, 1982	Full Professor	Social psychology, children, and youth, emotions
Cavendish, James	Ph.D.	Notre Dame, 1997	Associate Professor	Race/Ethics/Minority Relations, Religion, Collective Behavior/Social Movements
Friedman, Jennifer	Ph.D.	Northwestern, 1988	Associate Professor	Sex and Gender, Deviance
Gagan, Richard	Ph.D.	Cornell, 1969	Instructor	Statistics, quantitative Methodology
Green, Sara	Ph.D.	Tulane, 1994	Associate Professor	Aging, Disabilities
Graham, Laurel	Ph.D.	Illinois-Urbana, 1992	Associate Professor	Theory, Cultural Sociology
Kleiman, Michael	Ph.D.	Pennsylvania State, 1979	Associate Professor	Quantitative Methodology, Mass Communications, Public Opinion
Kusenbach, Maggie	Ph.D.	UCLA, 2003	Assistant Professor	Urban Sociology, Community, Emotions
Loseke, Donileen	Ph.D.	UC- Santa Barbara, 1982	Full Professor	Social Problems, Family Violence, Methods
Mayberry, Maralee	Ph.D.	Oregon, 1988	Full Professor	Education, Sexual Minority Youth, Science Studies
Ponticelli, Christy	Ph.D.	UC-Santa Cruz, 1993	Associate Professor	Sexuality and Homosexuality, Sex and Gender, Deviant Behavior
Stamps, David	Ph.D.	Washington State, 1972	Full Professor	Urban Sociology, Community, Race/Ethnic/Minority Relations
Tyson, Will	Ph.D.	Duke, 2004	Assistant Professor	Education, Sex and Gender, Race/Ethnic/Minority Relations
Bingham, Shawn	Ph.D.	American University, 2003	Instructor	Education, Disability
WOMEN'S STUDIES				
Crawley, Sara L.	Ph.D.	University of Florida Gainesville, FL	Assistant Professor	Gender and Sexualities Theories; Social Psychology/Sociology of the Self; Sociology of Sport and the Body; Qualitative Methods

Name	Degree	Institution, year	Level	Research Interests
Eichner, Carolyn	Ph.D.	UCLA Los Angeles, CA	Associate Professor	Feminism in European History; Women in Revolutions; Feminism and Imperialism
Grewal, Gurleen	Ph.D.	UC Davis Davis, CA	Associate Professor	Postcolonial Feminist Theory; Transnational Feminism; Feminism in India; Women and Spirituality
Myerson, Marilyn	Ph.D.	SUNY Buffalo, NY	Associate Professor	Feminist Issues in Research and Methodology; Feminist Theory; Human Sexuality; Women and Health
Rodriguez, Cheryl	Ph.D.	USF Tampa, FL	Associate Professor Africana Studies	Women of Color/Activism/Social Change
Vaz, Kim	Ph.D.	Indiana University Bloomington, IN	Associate Professor	Women and Mental Health; Feminist Psychotherapy; African-American Women's Issues
WORLD LANGUAGE EDUCATION **~French~** (For faculty listings for Spanish and German, contact the program)				
Brulotte, Gaëtan	Ph.D.	Sorbonne, Paris VII, 1978	USF Distinguished Research Scholar, Full Professor	International Award-Winning Creative Writer, 20th Century, Contemporary French Literature, Literary Theory and Criticism, Advanced Writing, Quebec Literature and Culture, Francophone Literature
Latowsky, Anne	Ph.D.	University of Washington, Seattle, 2004	Visiting Assistant Professor	Medieval Literature
Probes, Christine M.	Ph.D.	Tulane University, 1968	Associate Professor	Renaissance & 17th Century Literature, French Women Writers
Tucker, Roberta M.	Ph.D.	University of Chicago, 1988	Instructor, French Grad. Prog. Dir., Coord. of French Teaching Assistants, Paris Program Director	19th Century Literature, Poetry, Cognitive Science and Literature

College of Business

Name	Degree	Institution, year	Level	Research Interests
ACCOUNTANCY				
Albring, Susan	Ph.D	University of Arizona, 2003	Assistant Professor	Financial Reporting, Earnings Management, Effects of Taxation on Business Decisions, Audit Quality
Bryant, Stephanie M.	Ph.D.	Louisiana State, 1996	Associate Professor	Behavioral, Accounting Systems
Butler, Maureen	Ph.D.	University of Arkansas 2006	Assistant Professor	Managerial Accounting
Cockrum, Robert B.	J.D.	Indiana University, 1974	Instructor	Business Valuation
Engle, Terry J.	Ph.D.	University of Missouri, 1983	Professor	External Auditing
Caban-Garcia, Maria	Ph.D.	University of Missouri 2004	Assistant Professor	Financial and International Accounting
Gaynor, Lisa	Ph.D.	University of Texas @ Austin 2000	Assistant Professor	Financial Accounting and Auditing
Kahle, Jennifer	Ph.D.	University of South Carolina, 2003	Assistant Professor	Judgment/Decision Making, Behavioral Tax
Keith, Robert M.	Ph.D.	University of Alabama, 1969	Professor, Director School of Accountancy	Financial Accounting
Laursen, Gary A.	LLM..	University of Miami, 1972	Associate Professor	Income Taxes
Mastracchio, Nicholas	Ph.D.	Union College 1993	Lecturer	Financial Accounting, Managerial Accounting and Auditing
Murthy, Uday	Ph.D.	Indiana University, 1989	Professor	Information Systems, Judgment/Decision Making,
Parrott, William H.	Ph.D.	University of Illinois, 1971	Associate Professor	Financial Accounting
Quilliam, William	Ph.D.	University of Florida, 1991	Instructor	Auditing

Name	Degree	Institution, year	Level	Research Interests
Reck, Jacqueline	Ph.D.	University of Missouri, 1996	Associate Professor	Governmental accounting and reporting, impact of reporting on financial markets
Schafer, Brad A.	Ph.D.	University of Utah, 2003	Assistant Professor	Audit, Information Systems, Behavioral
Stuart, Nathan	Ph.D.	Indiana University, 2001	Assistant Professor	Managerial Accounting and Control; Compensation and Performance Measurement
BUSINESS - *Contact program for information*				
ECONOMICS				
Bellante, Don	Ph.D	Florida State University, 1971	Professor	Labor Markets Migration, European Union
DeSalvo, Joseph S.	Ph.D.	Northwestern University, 1968	Professor	Urban and Regional Economics, Microeconomic Theory and Economics Policy Analysis
DeSimone, Jeffrey	Ph.D.	Yale University,1998	Assistant Professor	Health, Education and Labor Economics
Ford, Ed	Ph.D.	Boston College, 1971	Associate Professor	Urban Economics, Political Economy
Green, Carole A.	Ph.D.	University of Illinois, 1982	Associate Professor	Gender Discrimination, Labor Market Issues, Household Production
Gyimah-Brempong, Kwabena	Ph.D.	Wayne State University, 1981	Professor, Chairman (Economics)	Economics of Crime. Development Economics Efficiency in Public Production
Herander, Mark G	Ph.D.	University of North Carolina, 1980	Professor	International Trade
Hodgson, John S.	Ph.D.	University of Virginia, 1971	Professor	International Monetary Relations
Kamp, Bradley P.	Ph.D.	University of California, San Diego, 1993	Associate Professor	Information Economics
Loewy, Michael	Ph.D.	University of Minnesota, 1986	Associate Professor	Dynamic Macroeconomics Growth Theory Monetary Theory
Picone, Gabriel	Ph.D.	Vanderbilt, 1993	Professor	Health Economics Micro Econometrics

Name	Degree	Institution, year	Level	Research Interests
Porter, Philip K.	Ph.D.	Texas A&M University, 1978	Professor	Law and Economics Public Choice Sports Economics
Rowe, John W.	Ph.D.	University of Illinois, 1966	Professor	Production Theory
Thomas, Christopher R.	Ph.D.	Texas A&M University, 1980	Associate Professor	Industrial Organization, Government Regulation, Antitrust Policy
FINANCE				
Adams, John	Ph.D.	Texas Tech, 2005	Visiting Instructor	Corp. Finance (Governance); Investments
Anita, Murad J.	Ph.D.	University of Houston, 1981	Instructor	Investments
Besley, Scott A.	D.B.A.	Florida State University, 1984	Associate Professor, Chairperson (Finance)	Working Cap. Management; Investment Analysis; Corp. Finance
Bolten, Steve E.	Ph.D.	New York University, 1969	Professor	Investments; Corp. Finance
Bulmash, Samuel B.	Ph.D.	Northwestern University, 1981	Associate Professor	International Banking Theory; Behavioral Finance
Ho, Yueh-Fang (Amy)	Ph.D.	Drexel University, 2003	Assistant Professor	Stock Offerings; Earnings Management Forecasts
Hunter, Delroy M.	Ph.D.	University of Warwick, 1999	Assistant Professor	International Finance; Investments
Kelly, Patrick J.	Ph.D.	Arizona State University, 2005	Assistant Professor	Asset Pricing; Investment; Market Efficiency
Lin, Jang-Shee (Barry)	Ph.D.	Baruch College, 1995	Assistant Professor	Corporate Finance; International Finance; Real Options
Meyer, Richard L.	Ph.D.	University of Wisconsin, 1971	Professor; Associate Dean	Corp. Finance; Investments
Pantzalis, Christos	Ph.D.	University of New York, 1995	Associate Professor	International Finance; Corporate Finance; Market Efficiency
Pappas, James A.	Ph.D.	University of California,	Professor	Corp. Finance; Banking

Name	Degree	Institution, year	Level	Research Interests
		Los Angeles, 1968		
Pencek, Thomas	D.B.A.	Mississippi State University, 1988	Instructor	
Qi, Jianping	Ph.D.	Washington University, 1993	Associate Professor	Financial Instit.; Capital Markets
Sutton, Ninon	Ph.D.	Florida State University, 1998	Associate Professor	Corp. Finance; M&As; Agency Theory
Tandon, Arun K.	Ph.D	Louisiana State University, 1999	Assistant Professor	ADRs; International Cross-Listing; Latin American Markets.
Wieand, Jr., Kenneth F.	Ph.D.	Washington University, 1970	Professor	Urban Economics; Int'l Fin.
Yang, Tina	Ph.D.	University of Georgia, 2005	Visiting Instructor	Corp. Governance; Mutual Funds
INFORMATION SYSTEMS AND DECISIONS SCIENCES (ISDS)				
Agrawal, Manish	Ph.D	SUNY Buffalo, 2002	Assistant Professor	Software engineering, information systems outsourcing, and applications of multi-agent systems.
Berndt, Donald J.	Ph.D.	New York University, 1977	Associate Professor	Database Systems Data Warehousing Data Mining Health Informatics
Bhattacherjee, Anol	Ph.D.	University of Houston, 1996	Associate Professor	Technology adoption and diffusion Medical informatics Knowledge transfer in social networks
Birkin, Stanley J.	Ph.D.	University of Alabama, 1969	Professor, Chairman (ISDS)	Global Information Systems Software Development Conflicts Quality Assurance Issues
Blanton, Ellis J.	Ph.D.	University of Georgia, 1987	Professor	Organizational Impacts of Information Technology Human Resource Issues of IT Professionals
Chari, Kaushal	Ph.D.	University of Iowa, 1990	Associate Professor and Chairman	Agent-based Modeling Software Engineering Decision Support Systems
Cohen, Murray E.	Ph.D.	Georgia State University, 1976	Associate Professor	Pension Funding & Continuing care retirement Financial Structure

Name	Degree	Institution, year	Level	Research Interests
Collins, Rosann W.	Ph.D.	University of Minnesota, 1993	Associate Professor	Global Info Systems Impacts of Info Technology on Work Systems Dev
Gill, Grandon	D.B.A.	Harvard Business School, 1991	Associate Professor	Using IT to enhance instruction Economics and organizational impacts of instructional technology Complexity and managerial time horizons
Hevner, Alan R.	Ph.D.	Purdue University, 1979	Professor, Chairman of Distributed Technology	Info Systems Dev Software Engineering Distributed Systems Health Care Information Systems
Hikmet, Neset	Ph.D.	University of Rhode Island, 1999	Assistant Professor	Healthcare Informatics, Intra/Inter – Organizational Information Exchange, Adoption and Utilization of Information Technology.
Jones, Joni	Ph.D.	University of Florida, 2000	Assistant Professor	Economics of Information Systems, Electronic Commerce, Software Development
Knight, Craig	Ph.D	University of Georgia, 2002	Assistant Professor	Inventory Control Supply Chain Management
Riggle, Charlene	Ph.D.	Kent State University, 1996	Assistant Professor	Programming Theory
Satterfield, Ronald K.	Ph.D.	Indiana State University, 1995	Instructor	Supply Chain Management, Distribution Systems Design, Customer Service in Logistics
Sincich, Terry L.	Ph.D.	University of Florida, 1980	Associate Professor	linear and nonlinear modeling applied statistical analyses
Will, Richard P.	Ph.D.	University of Houston, 1988	Associate Professor	System Development Methodologies, Project Management, Education/Training
MANAGEMENT				
Balfour, Alan	Ph.D.	Michigan State University, 1975 University of Michigan, 1969	Associate Professor, Chairman-Management	Employment Issues

Name	Degree	Institution, year	Level	Research Interests
Barnett, Michael L.	Ph.D.	New York University, 2004	Assistant Professor	Strategic Management
Bowen, Michael G.	Ph.D.	University of Illinois at Urbana-Champaign, 1987	Instructor	Strategic Management
Cohen, Cynthia F.	Ph.D.	Georgia State University, 1980	Professor	Employment Issues
Fuller, Sally Riggs	Ph.D.	University of Wisconsin, Madison, 1993	Associate Professor	Employment Issues
Hanna-West, Sharon	J.D.	University of Florida, 1982	Instructor	Environmental Law
Jermier, John M.	Ph.D.	Ohio State University, 1979	Professor	Leadership, Sustainable Organizations
Karlins, Marvin	Ph.D.	Princeton University, 1966	Professor	Gambling Studies
Koehler, Jerry W.	D.Ed.	Pennsylvania State University, 1966	Professor	Leadership Studies
Michaels, Jr. Charles E.	Ph.D.	University of South Florida, 1983	Associate Professor	Employment Issues
Nord, Walter R.	Ph.D.	Washington University, 1967	Professor	Organizational Politics
Robbins, Greg	Ph.D.	Columbia University, 2002	Assistant Professor	Organization theory and Structure, Occupational Structure, Governance, Business and Society.
Selsky, John	Ph.D.	University of Pennsylvania, 1988	Associate Professor	Environmental Issues
Wheelen, Thomas L.	D.B.A	George Washington University, 1969	Professor	Strategic Management

Name	Degree	Institution, year	Level	Research Interests
MARKETING				
Anderson, Robert L.	Ph.D.	North Texas State University, 1971	Professor, Dean	Promotion; Consumer Behavior
Artis, Andrew	Ph.D.	University of Tennessee, Knoxville 2003	Assistant Professor	Buyer Behavior, Promotion
Baumgarten, Steven	Ph.D.	Purdue University, 1971	Professor, Director of MBA Programs	International Marketing
Curran, James	Ph.D.	University of Rhode Island, 1999	Assistant Professor	Professional Selling and Sales, Services & Customer Satisfaction
Dant, Rajiv P.	Ph.D.	Virginia Polytechnic Institute & State University, 1986	Professor	Supply Chains; Distribution Channels
Edwards, Yancy D.	Ph.D.	The Ohio State University, 2002	Assistant Professor	Market Segmentation; Database Marketing
Gebhardt, Gary F.	Ph.D.	Northwestern University, 2004	Assistant Professor	Marketing & Corporate Strategy; Organizational Change
Hensel, James S.	Ph.D.	The Ohio State University, 1970	Associate Professor	Service Quality; Marketing Strategy
Keebler, James	Ph.D.	The University of Tennessee, 2000	Assistant Professor	Channels, Logistics, Retailing, Services & Customer Satisfaction, Strategic Marketing
Kumar, Anand	Ph.D.	Indiana University, Bloomington, 1996	Associate Professor	Consumer Responses to Traditional and High-Tech Marketing; Customer Satisfaction, Brand Management
Lafferty, Barbara A.	Ph.D.	Florida State University, 1999	Assistant Professor	Attitudes and Persuasion Research; Corporate/Advertiser Reputation; Cause-Brand Alliances
Ortinau, David J.	Ph.D.	Louisiana State University, 1979	Professor	Services Marketing; Consumer Satisfaction
Plank, Richard	Ph.D.	City University of New York,	Associate Professor	Channels, Logistics, Retailing, Strategic Marketing

Name	Degree	Institution, year	Level	Research Interests
		1988		
Solomon, Paul J.	Ph.D.	Arizona State University, 1974	Professor	Promotion and Services Marketing
Stamps, Miriam B.	Ph.D.	Syracuse University, 1982	Associate Professor Chair	Market Segmentation Strategies; Marketing to Vulnerable Consumers
Stock, James R.	Ph.D.	The Ohio State University, 1975	Professor	Logistics; Supply Chain Management

College of Education

Name	Degree	Institution, year	Level	Research Interests
COLLEGE LISTING				
Permuth, Steven	Ed.D.	Minnesota, 1973.	Professor	Role of school law and policy as it impacts the role of the administrator and teacher in the school setting
Shapiro, Arthur	Ph.D.	Chicago, 1965	Professor	Constructivist leadership
Terry, Paul	Ed.D.	Arkansas, 1993	Associate	Practicing administrative professional development; Educational leadership program quality
ADULT, CAREER, AND HIGHER EDUCATION				
Blank, William	Ph.D.	Florida State, 1976	Professor, Career and Technical Ed.	Education reform; authentic learning; integration of academic and vocational education
Closson, Rosemary	Ph.D.	Florida State, 1994	Assistant Professor, Adult Education	Learning and impinging factors e.g. race, age, gender; negotiating representation in qualitative research; executive coaching as individualized, non-formal learning.
Dellow, Donald	Ed.D.	Florida, 1971	Associate Professor, Higher Ed.	International education; community college leadership; global two-year college development; leadership
Eison, James	Ph.D.	Tennessee, 1979	Professor, Higher Ed.	Instructional strategies/techniques; student characteristics that influence learning; testing/grading and faculty development
Hernandez-Gantes, Victor	Ph.D.	Virginia Tech, 1993	Associate Professor, Career and Technical Ed.	Education reform, contextual teaching and learning, school restructuring in career and technical education
Ignash, Jan	Ph.D.	UCLA, 1994	Associate Professor, Higher Ed.	Transfer and articulation; college curriculum; state-level governance of colleges and universities
James, Waynne	Ed.D.	Tennessee, 1976	Professor, Adult Education	Understanding and using learning styles; school improvement; collaborative partnerships
Scaglione, Janet	Ph.D.	South Florida, 1990	Associate Professor, Career and Technical Ed.	Gender and racial equity in schools and the workplace; the art/spirit of teaching; online curriculum development

Name	Degree	Institution, year	Level	Research Interests
Sullins, Robert	Ed.D.	Florida, 1968	Associate Professor, Higher Ed.	College and university organization, administration, finance, governance and curriculum; state level governance and coordination; high school, community college and university articulation
Young, William	Ed.D.	Penn State, 1976	Professor	Continuing professional education; human resource development; leadership; continuing higher education
CHILDHOOD EDUCATION				
Anderson, Nancy	Ed.D.	University of Southern Mississippi, 1982	Associate	Early field experiences; comprehension strategies for emergent readers; teaching reading through literature
Brindley, Roger	Ed.D.	University of Georgia, 1996	Associate	University-school partnerships and pre-service teacher beliefs
Graves, Stephen	Ph.D.	University of South Carolina, 1986	Professor	Exemplary programs in Early Childhood Education; early childhood teacher education programs; parent-teacher-community partnerships
Hall, Ann	Ph.D.	University of Georgia, 1979	Instructor	Family literacy; vocabulary development; and literacy program designs
Homan, Susan	Ph.D.	University of Florida, 1978	Professor	Relationship between music, singing and middle and high school struggling readers; emergent literacy; diagnosis
King, James	Ed.D.	University of West Virginia, 1980	Professor	Literate identities constructed in service-learning contexts; struggling readers in early grades through middle school; masculinities in elementary school contexts
Kragler, Sherry	Ph.D.	University of Florida, 1986	Associate	Comprehension development of young children; professional development of teachers
Laframboise, Kathryn	Ph.D.	University of South Florida, 1989	Associate	Teacher education; children's literature
Larkin, Elizabeth	Ed.D.	Harvard University, 1992	Associate	Professional development of educators; studying intergenerational initiatives that bring older adults and younger populations together for their mutual benefit
Lippincott, Charlie	Ed.D.	Arkansas, 1980	Instructor	Early childhood research
Mann, Marcia	Ph.D.	Nebraska, 1970	Professor	Teacher education; at-risk children
Meadows, Rita	Ph.D. Ed.D.	Florida, 1986 Vanderbilt, 1999	Instructor	Vocabulary development; professional development for teachers; NCLB

Name	Degree	Institution, year	Level	Research Interests
Mo, Weimin	Ed.D.	Indiana of Pennsylvania, 1993	Associate	Multicultural/international children's literature and picture books
Morton, Mary Lou	Ph.D.	Indiana, 1999	Associate	Teacher and student efficacy in schools serving students at risk for school success; teacher education
Parker, Audra	Ph.D.	Georgia, 2005	Assistant	Teacher education; school transitions
Quinn, Suzanne	Ph.D.	Syracuse, 2003	Assistant	Children's cultures, teachers' identities, and the intersection of these with social justice.
Richards, Janet	Ph.D.	New Orleans, 1985	Professor	Changes in pre-service teachers' belief and cognition in early field programs; reading and writing comprehension strategies; self-study of teaching practices; multiple literacies
Rushton, Stephen	Ph.D.	Tennessee, 1997	Associate	Teacher effectiveness; brain-research; personality types using the Myers-Briggs Personality Inventory
Schneider, Jenifer	Ph.D.	Ohio State, 1996	Associate	Children's writing development and effective writing instruction including the use of process drama and children's literature
Williams, Nancy	Ph.D.	LSU, 1989	Associate	Preparation of literacy teachers and vocabulary teaching and learning
Wilson, Pat	Ph.D.	University of New Hampshire, 1999	Assistant	Analysis of the reading of children; the study of children's use of art-based media as tools of thinking
Wyatt, Georgann	Ph.D.	University of South Florida	Instructor	Analysis of Children's Literature; early literacy learning
EDUCATIONAL LEADERSHIP				
Benjamin, William	Ph.D.	George Peabody, 1961	Professor	Teacher education; elementary curriculum; secondary curriculum; educational policy and organizations
Bruner, Darlene	Ed.D.	South Florida, 1977	Associate	School work culture; the principalship; school reform issues
Evans, Philip Rodney	Ph.D.	Alberta, 1989	Associate	
Fauske, Janice	Ph.D.	Utah, 1985	Professor	Collaborative governance; organizational learning and change; efficacy of qualitative research methods

Name	Degree	Institution, year	Level	Research Interests
Greenlee, Bobbie	Ed.D.	South Florida, 1997	Assistant	Curriculum alignment; standards-based testing (especially FCAT)
Hill, Marie Somers	Ed.D.	Mississippi State, 1980	Professor	Safe schools; women's roles in leadership; learner-centered schools; higher education pedagogy
Janesick, Valerie	Ph.D.	Michigan State, 1977	Professor	Oral history; John Dewey's influence on education in the U.S. and other countries
Mullen, Carol	Ph.D.	Toronto, 1994	Associate	Mentoring; qualitative research design
Ponticell, Judith	Ph.D.	Illinois at Chicago, 1991	Professor	Individual and organizational learning and change; risk taking
Sutton, Len	Ph.D.	Florida, 1998	Assistant	Economics of education: legal aspects of education; principalship
EDUCATIONAL MEASUREMENT				
Carey, Lou	Ph.D.	Florida State, 1976	Professor	Classroom measurement/assessment; learner-centered assessment; educational program evaluation; research in instructional design
Chen, Yi-Hsin	Ph.D.	Arizona State, 2006	Assistant	Item response theory; cognitive psychology and measurement; secondary data analysis
Dedrick, Robert	Ph.D.	Michigan, 1988	Associate	The use of structural equation modeling to examine measurement quality of psychological instruments; the analysis of change using hierarchical linear modeling; and mentoring in doctoral education
Ferron, John	Ph.D.	North Carolina at Chapel Hill, 1993	Professor	Analysis of single-case data; growth curve modeling, structural equation modeling
Hines, Constance	Ph.D.	Ohio State, 1981	Professor	Factor analysis; measurement of teacher behavior and factors that mediate the effect of teacher behavior on student achievement
Kromrey, Jeffrey	Ph.D.	South Florida, 1989	Professor	Meta-analysis; indices of effect magnitude; robustness and power of statistical tests
Onwuegbuzie, Tony	Ph.D.	South Carolina, 1993	Professor	Disadvantaged and under-served populations such as minorities, children living in war zones, students with special needs.

Name	Degree	Institution, year	Level	Research Interests
SCHOOL OF PHYSICAL EDUCATION, WELLNESS AND SPORT STUDIES				
Ashley, Candi	Ph.D.	Alabama, 1995	Associate Exercise Science	Heat stress, particularly in response to protective clothing
Bie, Bonnie	Ph.D.	Florida State, 1994	Assistant Physical Education	Innovative practices in teacher preparation and beginning teacher induction.
Eickhoff-Shemek, Joann	Ph.D.	Nebraska, 1995	Professor Exercise Science	Risk management/legal liability of fitness programs and facilities; worksite health promotion; health/fitness program management
Faucette, Nell	Ed.D.	Georgia, 1984	Professor	Pre-service and in-service teacher professional development
Kilpatrick, Marcus	Ph.D.	Texas at Austin, 1999	Assistant Exercise Science	Physical activity behavior and adherence – specifically, exercise and sport motivation and the impact of physical activity on psycho-physiological states such as arousal, exertion, and affect.
Sanders, Stephen	Ed.D.	Virginia Tech, 1993	Professor Physical Education	Early childhood physical activity
Stewart, Michael	Ph.D.	Ohio State, 1977	Professor Physical Education	Identifying variables that contribute to perceived psychological stress among sport officials; teaching and coaching behavior of effective and ineffective coaches
Vanguri, Pradeep	Ph.D.	Alabama, 2005	Assistant Athletic Training	Athletic training education; faculty development; instructional technology
Wilcox, Ralph	Ph.D.	Alberta, Canada, 1982	Professor Sport Studies	Sport, popular culture and globalization; transformative leadership in higher education
PSYCHOLOGICAL AND SOCIAL FOUNDATIONS				
Baggerly, Jennifer	Ph.D.	North Texas, 1999	Associate, Counselor Education	Play therapy; trauma intervention training effectiveness; school counselors' characteristics
Batsche, Jr., George	Ed.D.	Ball State, 1978	Professor, School Psychology	School violence; mental health service delivery systems in schools; problem-solving and intervention-based service delivery models

Name	Degree	Institution, year	Level	Research Interests
Bradley-Klug, Kathy	Ph.D.	Lehigh, 1996	Associate, School Psychology	Assessment and intervention strategies for children and adolescents with pediatric health issues; development of a collaborative model for improving the communication between educational personnel and health care professionals
Cobb-Roberts, Deidre	Ph.D.	Illinois at Urbana-Champaign, 1998	Associate, Social Foundations	History of American higher education; women's educational history; post WWII student-community partnerships; teacher education and resistance to diversity
Curtis, Michael	Ph.D.	Texas at Austin, 1974	Professor, School Psychology	Consultation, collaborative planning and problem solving; organizational/systems change; school-based educational and mental health services delivery systems
DeMarie, Darlene	Ph.D.	Florida, 1988	Associate, Educational Psychology	Memory development; children's strategies for learning and the utilization deficiency period in strategy development; the relation between knowledge and memory
Dron, Sherman	Ph.D.	Pennsylvania, 1992	Associate, Social Foundations	Historical and social-science perspectives on high stakes accountability; Florida education policy; 20th century history of special education
Exum, Herbert	Ph.D.	Minnesota, 1978	Professor, Counselor Ed	Multicultural counseling, psychotherapy, and cognitive development; community mental health; veterans' affairs
Henry, Wilma	Ed.D.	East Texas State, 1980	Associate, College Student Affairs	Student affairs administration; functional areas of student wellness (student retention, residence life, student health, and student recreation)
Johanningmeier, Erwin	Ph.D.	Illinois, 1967	Professor, Social Foundations	Race ethnicity and education in the U.S.; history of educational research and its relationship to progressivism
Keller, Harold	Ph.D.	Florida State, 1968	Professor, School Psychology	Home-school collaboration and caregiver involvement; multiple assessment/ intervention approaches, ecological variables, and risk and protective factors for academic and social/emotional problems
Lopez, Lisa	Ph.D.	Miami (Florida), 2001	Assistant, Educational Psychology	Development of bilingual language and literacy skills in English language learners; phonological awareness and the cross language transfer of oral language and pre-literacy skills; parent involvement in young children's education
Marfo, Kofi	Ph.D.	Alberta, 1985	Professor, Educational Psychology	Early childhood development and school readiness; atypical development and early intervention; parent-child interaction and child development

Name	Degree	Institution, year	Level	Research Interests
Marshall, Richard	Ph.D.	Georgia, 1992	Associate, Educational Psychology	ADHD; the neurobiological bases of learning problems and behavior disorders; reading disabilities
Mathur, Smita	Ph.D.	Syracuse, 2000	Assistant, Educational Psychology	Acculturation and development of ethnic identity among Asian immigrants; family involvement in schools among culturally and linguistically diverse groups; adolescent literacy and teacher preparation
McBrien, J. Lynn	Ph.D.	Emory, 2005	Assistant, Social Foundations	Acculturation, discrimination, and academic motivation of refugee students; preparing teachers to help internationally diverse students succeed; effects of globalization on international education; and media literacy for social justice and human rights
Mitcham-Smith, Michelle	Ph.D.	Central Florida, 2005	Assistant, Counselor Ed	School counselor self-efficacy; school counselor role; effects of divorce on children
Osborn, Debra	Ph.D.	Florida State, 1998	Associate, Counselor Ed	Career development in youth and young adults; career development issues with high risk youth; use of technology in training
Raffaele-Mendez, Linda	Ph.D.	Texas at Austin, 1993	Associate, School Psychology	Home-school-community collaboration (in particular, with families whose children have special needs); gender equity in schools; alternatives to suspension and expulsion
Rodriguez, Tomas	Ph.D.	Johns Hopkins, 1999	Assistant, Social Foundations	Sociology of education; educational and social inequality; immigration, ethnicity and education; children of immigrants in school and society
Shircliffe, Barbara	Ph.D.	SUNY at Buffalo, 1997	Associate, Social Foundations	History of education; school policy; school desegregation; school-community relations
Street, Marian	Ph.D.	Florida, 1980	Associate, Counselor Ed	Self-perception and self-esteem; strategies for development of resilience in at-risk adolescents; interventions for Hispanic girls and other at-risk adolescents
Suldo, Shannon	Ph.D.	South Carolina, 2004	Assistant, School Psychology	Developmental course of life satisfaction during youth; positive indicators of children's psychological well-being and strength-based assessment and treatment; effects of parenting behaviors on adolescent mental health
Tan, Tony	Ed.D.	Harvard, 2004	Assistant, Educational Psychology	Adoption, specifically Chinese children's post-adoption social/emotional adjustment and language development; Chinese adoptees' ethnic identity development; adoptive mothers' concerns about their adopted daughters

Name	Degree	Institution, year	Level	Research Interests
Zalaquett, Carlos	Ph.D.	Texas, 1993	Assistant, Counselor Ed	Psychotherapy and counseling techniques; multicultural counseling; characteristics of successful Latino students
SECONDARY EDUCATION **~English Education~**				
Applegate, Jane	Ph.D.	Ohio State, 1978	Professor	Women in administration, teacher education, field experiences
Daniel, Pat	Ph.D.	Oklahoma, 1991	Associate	Identity issues: using literature to help troubled teenagers; teaching writing
Kaywell, Joan	Ph.D.	Florida, 1987	Professor	Using literature to help troubled teenagers cope with abuse issues; team teaching with counselors: working with illiterate teenagers in emotional pain
Vasquez, Anete	Ph.D. candidate	South Florida	Instructor	Teacher efficacy; reading in the content area
SECONDARY EDUCATION **~Foreign Language / ESOL Education~**				
Erben, Tony	Ph.D.	Lancaster (England), 2000	Assistant	Immersion education; sociocultural theory; critical literacy in FLE; curriculum development; technology in the FL classroom
Evans, Linda	Ph.D.	South Florida, 1997	Assistant	Immersion/bilingual education; ESL, literacy, and teacher development
Kim, Deoksoon	Ph.D.	New Mexico, 2005	Assistant	Reading and Literacy Education; multicultural pedagogy; TESOL (teaching English to speakers of other languages); and ESL (English as a second language/bilingual education)
van Olphen, Marcela	Ph.D.	Purdue, 2002	Assistant	Foreign language teacher education (including the integration of technology and social justice issues); bilingual education and ESOL; Heritage learners and language maintenance.
Smith, Phil	Ph.D.	South Florida, 2005	Instructor	Pre-service education programs, and student-teacher attitudes toward mainstreaming ESOL students, and teachers' perceptions and attitudes towards ESOL students.

Name	Degree	Institution, year	Level	Research Interests
SECONDARY EDUCATION ~Instructional Technology ~				
Barron, Ann	Ed.D.	Central Florida, 1991	Professor	Appropriate use of audio in e-Learning; trends in distance education; design and development of instructional websites.
Breit, Frank	Ph.D.	Texas at Austin, 1968	Associate	Technology literacy and teacher technology support
Kealy, William	Ph.D.	Arizona State, 1989	Associate	Adjunct graphic displays and learning from text; role of message design on processing motivation; visualization and multivariate data displays
Kennedy, Colleen	Ph.D.	Washington, 1976	Professor	Use of technology in K-12 education; factors that hinder the acquisition and use of technology among teachers
Smith, Glenn	Ph.D.	Arizona State, 1998	Assistant	Experimental research on spatial cognition; qualitative research on visual e-learning; action-research on Geographic Information Systems in education
White, Jim	Ph.D.	South Florida, 1989	Associate	Instructional technology research methods and instrumentation
SECONDARY EDUCATION ~MathematicsEducation ~				
Austin, Richard	Ph.D.	Florida, 1983	Associate	Use of technology in mathematics education; use of literature to engage middle school students in studying mathematics; assessment of mathematical knowledge
Gerretson, Helen	Ph.D.	Florida, 1998	Assistant	Mathematical (content and pedagogical) development of school teachers; teacher professional development models; mathematics in the content areas
Kersaint, Gladis	Ph.D.	Illinois State, 1998	Associate	Pre- and in-service teacher education; learning and teaching with technology; improvement of students' reasoning skills.
Thompson, Denisse	Ph.D.	Chicago, 1992	Professor	Curriculum development; assessment issues; use of literature in the teaching of mathematics

Name	Degree	Institution, year	Level	Research Interests
SECONDARY EDUCATION ~Science Education ~				
Howes, Elaine	Ph.D.	Michigan State, 1997	Assistant	"Science for all," especially for girls; cultural and language diversity in science education; pre-service and in-service science teacher education
Spector, Barbara	Ph.D.	Syracuse, 1977	Professor	Science education reform
Zeidler, Dana	Ph.D.	Syracuse, 1982	Professor	Socioscientific Issues; argumentation and discourse patterns in science education; moral and ethical issues in science; epistemology and nature of science
SECONDARY EDUCATION ~Social Science Education ~				
Berson, Michael	Ph.D.	Toledo, 1993	Professor	Global child advocacy; technology in social studies education
Cruz, Barbara	Ed.D.	Florida International, 1990	Professor	Global and multicultural perspectives in education with an emphasis on ethnic minority students; innovative teacher preparation practices
Duplass, James	Ph.D.	Saint Louis, 1974	Professor	Philosophical foundations of social sciences education; technology integration; methods of instruction and competing conceptions of curriculum for social sciences education
Johnston, Howard	Ph.D.	Wyoming, 1974	Professor	Middle school education; secondary school reform; equity and student performance; school leadership development and school improvement
Puglisi, Dick	Ph.D.	Georgia State, 1973	Professor	Free enterprise and economic education
Thornton, Stephen	Ph.D.	Stanford, 1985	Professor	Social studies education; study of geography and history; curriculum and teacher education
SPECIAL EDUCATION				
Allsopp, David	Ph.D.	Florida, 1995	Associate	Effective mathematics instruction for students with learning problems; effective social skills instruction for students with learning and behavioral problems; effective academic interventions for postsecondary students with learning disabilities & ADHD

Name	Degree	Institution, year	Level	Research Interests
Churton, Michael	Ed.D.	Southern Mississippi, 1979	Professor	Special education and distance learning
Colucci, Karen	Ph.D.	South Florida, 1994	Instructor	Teacher education; case-based instruction; partnerships and mentor development
Cranston-Gingras, Ann	Ph.D.	South Florida, 1987	Professor	Migrant education and special education
Doone, Elizabeth	Ph.D.	South Florida, 1998	Instructor	Teacher education and partnership development
Duchnowski, Albert	Ph.D.	Vanderbilt, 1969	Professor	Policy research that will lead to systematic changes in education and social service agencies
Jones, Phyllis	Ph.D.	Northumbria, 2002	Assistant	Parents; inclusion; the voices of children and families and teacher learning
Kleinhammer-Tramill, Jeannie	Ph.D.	Kansas, 1981	Professor	Special education policy, including the role of federal and state support for personnel preparation in special education
Knopp, Tanice	Ph.D.	Florida, 2000	Assistant	Beginning teacher and mentor teacher needs; collaborative programming for students with severe and complex needs; reflection in teacher education
Loeding, Barbara	Ph.D.	Purdue, 1989	Associate Special Ed / Gifted	Sign language and assessment of individuals who are deaf, blind or have a physical impairment
Matthews, Michael	Ph.D.	Georgia, 2002	Assistant	Cultural and linguistic diversity in gifted education; underachievement among gifted learners; youth leadership
Alvarez McHatton, Patrician	Ph.D.	South Florida, 2004	Assistant	Teacher preparation with an emphasis on secondary special education; experiential learning; participatory action research focused on youth empowerment
Paul, James	Ed.D.	Syracuse, 1967	Professor Special Ed / Gifted	Emotional and behavioral disorders; special education policy; narrative, ethics, and philosophies of research
Shaunessy, Elizabeth	Ph.D.	Southern Mississippi, 2003	Assistant	Gifted children with Asperger Syndrome; culturally diverse gifted learners; the use of technology in gifted education
Singh, Surrendra	Ed.D.	UCLA, 1967	Professor	Learning disabilities; psychological, neuropsychological, and education assessment
Thomas, Daphne	Ph.D.	North Carolina at Chapel Hill, 1989	Associate	Families of children with disabilities, multi-cultural education, teacher preparation and cross-cultural competence
Townsend, Brenda	Ph.D.	Kansas, 1991	Professor	Schooling issues related to African American children; development of culturally responsive pedagogy

Name	Degree	Institution, year	Level	Research Interests
White, Julia	M.A.	George Washington, 1993	Instructor	Critical Race Theory, inclusive education and human rights, multiculturalism, educational policy, and cultural representations of disability

College of Engineering

Name	Degree	Institution, year	Level	Research Interests
BIOMEDICAL ENGINEERING - Contact program for information				
CHEMICAL ENGINEERING - Contact program for information				
CIVIL AND ENVIRONMENTAL ENGINEERING - Contact program for information				
COMPUTER SCIENCE AND ENGINEERING				
Albrecht, William*	Ph,D.	University of South Florida, 1994.	Associate Instructor	
Christensen, Kenneth	Ph.D.	North Carolina State, 1991	Associate Professor	Performance Evaluation of Computer Networks
Goldgof, Dmitry	Ph.D.	University of Illinois, Urbana-Champaign, 1989	Professor	Image Analysis, Bioinformatics, Pattern Recognition
Hall, Lawrence	Ph.D..	Florida State University, 1986	Professor	AI, Data Mining, Pattern Recognition
Harlow, Justin*	M.S.	Duke University, 1994	Instructor	
Iamnitchi, Adriana	Ph.D..	University of Chicago, 2003	Assistant Professor	Distributed Systems
Jeanty, Henrick*	Ph.D..	City College of New York, 1990	Instructor	
Kandel, Abraham	Ph.D..	University of New Mexico, 1977	Professor	Intelligent and Autonomous Systems, Neural Networks, Fuzzy Set Theory
Kasturi, Rangachar	Ph.D..	Texas Tech University, 1982	Professor and Chair	Computer Vision, Image Processing, Pattern Recognition
Katkoori, Srinivas	Ph.D..	University of Cincinnati, 1998	Associate Professor	VLSI, High-Level Synthesis, Low-Level Synthesis
Kellner, Edward*	M.A.	University of South Florida, 1994	Instructor	
Kim, Soontae	Ph.D..	Pennsylvania State University, 2003	Assistant Professor	Computer Architecture, Embedded Computing, Reliable System Design
Labrador, Miguel	Ph.D..	University of Pittsburgh, 2000	Assistant Professor	Active Queue Management, TCP-Friendliness, QoS
Ligatti, Jarred	Ph.D.	Princeton University, 2006	Assistant Professor	Software Security, Programming Languages
Murphy, Robin	Ph.D..	Georgia Institute of Technology, 1992	Professor	Artificial Intelligence, Robotics

Name	Degree	Institution, year	Level	Research Interests
Perez, Rafael	Ph.D..	University of Pittsburgh, 1973	Professor and Associate Dean for Academics, College of Engineering	Artificial Intelligence, Neural Networks, Genetic Algorithms
Piegl, Les	Ph.D..	Eotvos Lorand University, Budapest, 1982	Professor	Computer-Aided Geometric Design, Computer Graphics, Geometric Modeling
Ranganathan, Nagarajan	Ph.D..	University of Central Florida, 1988	Professor	VLSI System Design, Hardware Algorithms, Computer Architecture
Rundus, Dewey	Ph.D..	Stanford University, 1971	Associate Professor	Human-Computer Interaction, Evaluation of System Usability
Sarkar, Sudeep	Ph.D..	Ohio State University, 1993	Professor	Computer Vision, Biometrics, Gait Recognition
Tindell, Ralph*	Ph.D..	Florida State University, 1967	Instructor	
Tripathi, Rahul	Ph.D..	University of Rochester, 2005	Assistant Professor	Quantum and Classical Complexity Theory, Algorithms
Turner, Rollins*	Ph.D..	University of Massachusetts, 1982	Instructor	
Valavanis, Kimon	Ph.D..	Rensselaer Polytechnic Institute, 1986	Professor	Intelligent Systems, Robotics and Automation
Varanasi, Murali	Ph.D.	University of Maryland, 1973	Professor	Coding Theory, Computer Arithmetic, VLSI Design
Wang, Jing*	Ph.D.	Vanderbilt University, 2005	Instructor	Computer Animation, Motion Capture
Zheng, Hao	Ph.D.	University of Utah, 2001	Assistant Professor	VLSI Design, Computer Architecture, Asynchronous Circuit Design
ELECTRICAL ENGINEERING - Contact the program for information				
INDUSTRIAL AND MECHANICAL ENGINEERING - Contact the program for information				

College of Marine Science

Name	Degree	Institution, year	Level	Research Interests
Betzer, Peter R.	Ph.D.	University of Rhode Island, 1971	Professor Professor	Geochemical cycling of particulate material; atmospheric and river transport of particles to the oceans
Blake, Norman J.	Ph.D.	University of Rhode Island, 1972	Full Professor	Marine invertebrate ecology; aquaculture of bivalves; histopathology and reproductive biology
Breitbart, Mya	Ph.D.	University of California, San Diego, 2006	Assistant Professor	Marine viruses; microbial diversity and genetic exchange; marine viral diseases
Byrne, Robert H.	Ph.D.	University of Rhode Island, 1974	Distinguished University Professor	Speciation and behavior of trace metals; marine CO2 system; in-situ sensor development
Carder, Kendall L.	Ph.D.	Oregon State University, 1970	Full Professor	Light propagation in the ocean; interpretation of ocean color from space.
Coble, Paula G.	Ph.D.	Massachusetts Institute of Technology – Woods Hole Oceanographic Institution, 1990	Associate Professor	Sources, cycling, optical properties and chemical composition of dissolved organic carbon
Daly, Kendra L.	Ph.D.	University of Tennessee, 1995	Assistant Professor	Zooplankton ecology; role of zooplankton in biogeochemical cycles; physical controls of zooplankton distributions
Fanning, Kent A.	Ph.D.	University of Rhode Island, 1973	Full Professor	Nutrient cycling and dynamics; ammonia production and cycling; advanced techniques for nutrient measurements
Flower, Benjamin P.	Ph.D.	University of California, Santa Barbara, 1993	Associate Professor	Role of high latitudes in past global climate change; evolution of the ocean-climate system; stable isotopes of carbon and oxygen
Galperin, Boris	Ph.D.	Technion-Israel Institute of Technology, 1982	Associate Professor	Numerical modeling of estuarine and shelf circulation; turbulence theory; Renormalization Group Methods
Garcia-Rubio, Luis	Ph.D.	McMaster University, 1981	Full Professor	Sensor development for real-time monitoring of biological and environmental systems; quantitative characterization of micron and sub-micron size particles
Hallock Muller, Pamela	Ph.D.	University of Hawaii, 1977	Full Professor	Coral reef health; response of reefs to environmental change; use of foraminifera as bioindicators of reef ecology

Name	Degree	Institution, year	Level	Research Interests
Hine, Albert C.	Ph.D.	University of South Carolina, 1975	Full Professor	Stratiography and sedimentary processes along continental margins; coastal geology of barrier-island and marsh-dominated coastlines; continental shelves, reefs, and carbonate platforms
Hollander, David	Ph.D.	Swiss Federal Institute of Technology, 1989	Associate Professor	Isotopic biogeochemistry and organic geochemistry; paleoenvironmental reconstructions; origin of organic-rich deposits; chemical sedimentology
Luther, Mark E.	Ph.D.	University of North Carolina, 1982	Associate Professor	Numerical modeling of ocean processes; large-scale ocean circulation and its relation to climate change; development of sensor technologies for ocean observing systems
Mann, David	Ph.D.	Massachusetts Institute of Technology – Woods Hole Oceanographic Institution, 1995	Assistant Professor	Marine bioacoustics; hearing and sound production in fishes; interactions between cetaceans and sound-producing fishes
Mitchum, Gary	Ph.D.	Florida State University, 1984	Full Professor	Sea level change; equatorial inertia gravity waves; propagation of oceanic eddies; satellite altimetry
Muller-Karger, Frank E.	Ph.D.	University of Maryland, 1988	Full Professor	Use of satellite remote sensing to investigate marine primary production; the importance of continental margins, including areas of upwelling, river discharge, and coral reefs, in the global carbon budget
Naar, David F.	Ph.D.	University of California, San Diego, Scripps Institution of Oceanography,1990	Associate Professor	Mid-ocean ridge processes; microplate tectonics; time-dependent plate tectonic phenomena
Paul, John H.	Ph.D.	University of Miami, 1980	Distinguished University Professor	Marine microbial ecology; use of gene expression to understand microbially-mediated processes in the oceans; sensor development
Pyrtle, Ashanti J.	Ph.D.	Texas A&M University, 1999	Assistant Professor	Distribution, behavior, transport and retention of radionuclides in inland and coastal ecosystems; educational and professional development of students representing diverse socioeconomic, cultural, gender, racial and academic backgrounds.
Torres, Joseph J.	Ph.D.	University of California, Santa Barbara, 1980	Full Professor	Physiology and ecology of pelagic crustaceans, gelatinous organisms, and fishes; food web energy fluxes and adaptation to temperature and oxygen levels
Van Vleet, Edward S.	Ph.D.	University of Rhode Island, 1978	Full Professor	Biogeochemical cycling of natural and anthropogenic organic compounds in the marine environment; use of organic compounds as molecular markers; marine pollution

Name	Degree	Institution, year	Level	Research Interests
Vargo, Gabriel A.	Ph.D.	University of Rhode Island, 1976	Associate Professor	Physiological ecology of phytoplankton; nutrient utilization and the determination of in situ growth rates; Harmful Algal Blooms (HABs)
Walsh, John J.	Ph.D.	University of Miami, 1969	Distinguished University Professor	Biogeochemical cycling of elements within continental margins; use of physical-biochemical models to simulate carbon, nitrogen, and oxygen fluxes through food webs; global cycles of greenhouse gases.
Weisberg, Robert H.	Ph.D.	University of Rhode Island, 1975	Full Professor	Ocean circulation and ocean-atmosphere interaction studies in the tropics, on continental shelves, and in estuaries

College of Medicine

For information about faculty and research areas in the College of Medicine, contact the program or refer to the website: http://hsc.usf.edu/medicine

Name	Degree	Institution, year	Level	Research Interests
ANATOMY - Contact the program for information				
BIOCHEMISTRY - Contact the program for information				
BIOETHICS AND MEDICAL HUMANITIES - Contact the program for information				
MEDICAL MICROBIOLOGY - Contact the program for information				
PATHOLOGY - Contact the program for information				
PHARMACOLOGY - Contact the program for information				
PHYSICAL THERAPY - Contact the program for information				

College of Nursing

Name	Degree	Institution, year	Level	Research Interests
Albright, Patricia G.	ARNP, MPH	UNC, Chapel Hill, NC 1996	Instructor	Community Health Nursing
Alia-Harding, Cathy	ARNP, MS	USF, Tampa, FL 1993	Instructor	Geriatric Medicine
Beckie, Theresa	Ph.D.	University of Alberta, Canada 1994	Associate Professor	Cardiac Rehab Women's Health
Beckstead, Jason W.	Ph.D.	SUNY, Albany, NY 1990	Associate Professor	Statistics Behavior
Berarducci, Adrienne	ARNP, Ph.D.	USF, Tampa, FL 2001	Assistant Professor	Osteoporosis Obesity
Blasen, Linda	ARNOP, MSN	USF, Tampa, FL, 1990	Instructor	Primary Care Acute Care
Bouchard, Christine	ARNP, MSN, MPH	USF, Tampa, FL 1999	Instructor	Occupational Health Nursing
Breiter, Dorit	ARNOP, MSN	USF, Tampa, FL 2001	Instructor	Psychiatric Nursing
Burns, Candace	ARNP, Ph.D.	University of Michigan, Ann Arbor, MI, 1980	Associate Professor	Occupational Health Nursing
Burns, Patricia	Ph.D.	SUNY, Buffalo, NY 1988	Professor	Incontinence
Cadena, Sandra J.	ARNP, Ph.D.	UF, Gainesville, FL	Assistant Professor	GeroPsychiatry International Health
Cahill, Kathleen	ARNP, MSN	USF, Tampa, FL 1990	Instructor	Pain Management
Cantero, Deborah H.	ARNP, MS	USF, Tampa, FL 1988	Instructor	Osteoporosis
Canty-Mitchell, Janie	Ph.D.	University of Miami, Coral Gables, FL 1993	Associate Professor	Asthma Adolescence Cultural Competence
Dubois, Janet	ARNP, MS	USF, Tampa, Fl 1994	Instructor	Primary Care Higher Ed
Edmonds, Allison	ARNOP, MS	USF, Tampa, FL 1998	Instructor	Obesity Adolescents
Edwards, Sharon	Ph.D.	St. Louis University, St. Louis, MO 2002	Assistant Professor	Cardiac Health
Evans, Mary	Ph.D.	SUNY, Albany, NY 1976	Professor and Associate Dean	Adolescence Systems of Care

Name	Degree	Institution, year	Level	Research Interests
Fanning, Jane	ARNP, Ed.D.	University of Sarasota, Sarasota, FL 1998	Assistant Professor	Obesity
Garrison, Christopher	ARNP, MSN	George Mason University, Fairfax, VA	Instructor	Geriatric Primary Care
Gerton, Norma	ARNP, MSN	Northeastern University Boston, MA 2000	Instructor	Community Health Outreach
Gonzalez, Laura	ARNP, MSN	USF, Tampa, FL 1996	Instructor	Minority Health Virtual Realty
Gonzalez, Lois	ARNP, Ph.D.	USF, Tampa, FL 1988	Associate Professor	Alternative Therapies Mental Health
Gorzka, Patricia	Ph.D.	Adelphi University, Garden City, NY 1988	Associate Professor	Adult Learning
Gregory, S. Joan	RNP, Ph.D.	UF, Gainesville, FL 1977	Associate Professor	Primary Care
Gwinn, Clyde	MD	Pennsylvania State University University Park, PA 1974	Assistant Professor	Pathophysiology
Harris, Tomika	ARNP, MSN	University of Rochester	Instructor	Primary Care
Jerla, Kathleen	ARNP, MSN	MCP Hahnemann University, Philadelphia, 2000	Instructor	Pediatric Primary Care
Jevitt, Cecilia	CNM, Ph.D.	USF, Tampa, FL 1994	Assistant Professor	Post-Partum Depression Obesity
Johnson, Afriyie	ARNOP, MSN	Michigan State University 1998	Instructor	Cultural Competence
Johnson-Mallard, Versie	ARNP, Ph.D.	USF, Tampa, FL 2005	Post Doc	Women's Health
Jones, Kimberly	ARNP, MS	USF, Tampa, FL 1994	Instructor	Acute Care
Joustra, Linda	ARNP, MSN	University of Phoenix, 2001	Instructor	Women and Children
Karshmer, Judith F.	ARNP, Ph.D.	New Mexico State University, Las Cruces, NM, 1988	Professor and Associate Dean	Nursing Leadership
Lennerth, Linda	MSN	UF, Gainesville, FL 1992	Instructor	Adult Learning
Kay, Lilyan	CNM, ARNP, MSN	Georgetown University, Washington D.C. 1988	Instructor	Women's Health
Kuster, Patricia	ARNP, Ph.D.	UCLA, Los Angeles, CA 2002	Assistant Professor	Pediatric Pulmonary

Name	Degree	Institution, year	Level	Research Interests
Lehman, Brandy	ARNP, MS	University of Wisconsin, Milwaukee, WI, 2000	Instructor	Care-givers
Lengacher, Cecile	Ph.D.	Marquette University, Milwaukee, WI 1983	Professor	Stress Reduction Alternative Therapies
Little, Barbara	MPH	USF, Tampa, FL 2000	Instructor	Community Health School Health
McCallister, Patricia	ARNP, MS	University of South Carolina, 1989	Instructor	Maternal Child Health
McMillan, Susan	Ph.D.	USF, Tampa, FL 1983	Professor	Pain Palliative Care
Molloy, Jenny	ARNP, MSN	USF, Tampa, FL 2004	Instructor	Maternal Child Health
Moody, Linda	Ph.D.	UF, Gainesville, FL 1977	University Distinguished Professor	Informatics
Morris, Joan	ARNP, MSN	William Patterson University, Wayne, NJ, 1998	Instructor	Primary Care
Morris, Steve	MD	USF, Tampa, FL 1991	Instructor	Bioterrorism Disaster Management
Nye, Carla	MS	University of Washington, Seattle, Washington 1990	Instructor	Maternal Child Health
Overcash, Janine	ARNP, Ph.D.	USF, Tampa, FL 2001	Assistant Professor	Geriatric Assessment
Rankin, Frances	ARNP, Ph.D.	USF, Tampa, FL 2000	Assistant Professor	Diabetes Obesity Cardiovascular
Redding, Barbara	Ed.D.	UF, Gainesville, FL 1982	Professor	Adult Learning Nursing Education
Slocumb, Elaine	Ph.D.	University of Connecticut, Storrs, CT 1989	Assistant Professor	Informatics
Slone, Frederick	MD	Johns Hopkins, 1978	Instructor	Bioterrorism Disaster Management
Villagomeza, Liwliwa	MSN	USF, Tampa, FL 2005	Instructor	Spirituality in Health Care
Webb, Mary	Ph.D.	UF, Gainesville, FL 1993	Associate Professor	Hypertension (Af-Americans)

College of Public Health

Name	Degree	Institution, year	Level	Research Interests
COMMUNITY AND FAMILY HEALTH				
Baldwin, Julie	Ph.D.	The Johns Hopkins University, School of Hygiene and Public Health, Baltimore (1991)	Professor	HIV/AIDS and substance abuse prevention Health issues for Native American populations Community-based participatory research
Bryant, Carol	Ph.D.	University of Kentucky, Kentucky (1978)	Full Professor	Psychosocial determinants of health behavior; Behavioral and social determinants of Breast Cancer screening; Social and cultural determinants of infant feeding.
Buhi, Eric	Ph.D.	Texas A&M University (2006)	Assistant Professor	Child and Adolescent Health issues; Community-Academic Partnerships in Public Health; Sexuality Education and Sexual Violence Prevention; School and College Health; Program Evaluation and Measurement; Quantitative Research and Analytic Methods
Buhi, Lori	MS	Emory University (2001)	Visiting Instructor	Community-based participatory research; Community-based prevention marketing; Reproductive health; Prevention and management of chronic diabetes and cardiovascular diseases
Coreil, M. Jeannine	Ph.D.	University of Kentucky, Lexington (1979)	Full Professor	Support groups and chronic diseases; Lymphatic filariasis in Haiti; Cancer education and prevention; Gender and health; Qualitative research
Coulter, Martha	DrPH	University of North Carolina, Chapel Hill (1984)	Full Professor	Maternal and child health; Family violence; Children with special needs.
Daley, Ellen	Ph.D.	University of South Florida, Tampa (2000)	Assistant Professor	Women's health; Sexually transmitted diseases; Human Papillomavirus; Adolescent health; Health risk-taking behaviors; Temperament type
Darr, David	MD	The George Washington University, Washington (1971)	Assistant Professor	Perinatal data; Relationship of physician or hospital volume to outcomes in preterm labor; Accuracy of gestational age determinations in vital statistics
DeBate, Rita	PhD	University of South Carolina (1995)	Associate Professor	Program Planning; Evaluate Obesity; Eating Disorder
Graven, Stanley	MD	University of Iowa, Iowa City (1956)	Full Professor	Physical and developmental environment of the high risk newborn; Fetal and neonatal sensory development; Early learning in children with special needs and developmental problems

Name	Degree	Institution, year	Level	Research Interests
Gulitz, Elizabeth	Ph.D.	Illinois State University, Normal (1983)	Associate Professor	Adolescent health; Maternal and infant health; Teen pregnancy; Program evaluation.
Liller, Karen	Ph.D. EdS	University of South Florida, Tampa (1988) University of South Florida, Tampa (1986)	Full Professor	Prevention of childhood injuries; Development and evaluation of injury prevention and health promotion programs; Medical sciences; Epidemiology of injuries across the life span
McDermott, Robert	Ph.D.	The University of Wisconsin, Madison (1981)	Full Professor	Adolescent health; Health behavior; Program evaluation.
Osman, Hana	Ph.D.	University of South Florida, Tampa (2001)	Assistant Professor	Aging and Public Health; Medical Ethics; Research Ethics; End-Of-Life Decision Making; Advance Directives; Advance Care Planning
Perrin, Karen	Ph.D.	University of South Florida, Tampa (1996)	Associate Professor	Teen pregnancy prevention; Adolescent health; School health issues;
Perry-Casler, Suzanne	Ph.D.	The University of Toledo, Toledo (1996)	Assistant Professor	Maternal and child health/prenatal care; Tobacco prevention; Juvenile delinquency issues
Shearer, Darlene	DrPH	University of Alabama at Birmingham (1999)	Assistant Professor	Health issues for MCH populations with cognitive limitations; Children with disabilities; Evaluation of home visiting models; Parent participation in early intervention programs and services
Trede, Teri	PhD	University of South Florida (2006)	Visiting Instructor	Aging/successful aging; Sexuality; Sexual Behavior; Volunteerism; Religiosity
Vandeweerd, Carla	Ph.D.	University of South Florida, Tampa (2003)	Assistant Professor	Elder Mistreatment; mistreatment related to dementia, social work and domestic violence in caregivers for Alzheimer's patients
ENVIRONMENTAL AND OCCUPATIONAL HEALTH				
Bernard, Thomas E	Ph.D.	University of Pittsburgh, Pittsburgh (1975)	Full Professor	Evaluation and control of heat stress and strain; Ergonomics.

Name	Degree	Institution, year	Level	Research Interests
Brooks, Stuart	MD	University of Cincinnati, Cincinnati (1962)	Full Professor	Environmental and occupational factors in the initiation of asthma; Irritant-induced asthma and RADS; Host factors in the development of respiratory illnesses from infectious agents and Anthrax; Inhalation toxicology; Health effects of mold in indoor environments; Host factors for developing respiratory problems from indoor air pollutants; Health effects from hazardous waste incineration; Manage care systems and cost savings programs in workers compensation.
Hammad, Yehia	ScD	University of Pittsburgh, Pittsburgh (1974)	Full Professor	Aerosol science; Air sampling; Indoor air quality; Respiratory protective equipment.
Harbison, Raymond	Ph.D.	The University of Iowa, Iowa City (1969)	Full Professor	Mechanisms of toxicity; Human toxicology; Neurotoxicology; Hepatotoxicology; Pharmacology; Illicit drugs Pharmokinetics; Risk assessment and management
Jawad, Foday	PhD	University of Lancaster, United Kingdom (2004)	Assistant Professor	Fate and behavior of persistent organic pollutants in the environment and the effects on human health
Mlynarek, Steven	Ph.D.	The Johns Hopkins University, School of Hygiene and Public Health, Baltimore (2000)	Associate Professor	Industrial hygiene and safety; Aerosol science and technology in industrial hygiene; Inhalation challenge testing; Indoor environmental quality; Biodefense and personal protective equipment; Occupational exposure assessment
Monaghan, Paul	PhD	University of Florida (2000)	Assistant Professor	Safety intervention in migrant workers
Olson, Karen	MD	University of Hawaii at Manoa (1992)	Instructor	Outcomes from workers' compensation injury treatment
Poor, Noreen	Ph.D.	Virginia Polytechnic Institute and State University, Blacksburg (1996)	Associate Professor	Environmental chemistry; Ambient air quality; Measurement of air pollutants.
Reid, William	Ph.D.	University of Missouri, Columbia (1969)	Associate Professor	Leadership; Public Health Practice; Public Health Administration.
Rentos, Pantelis	Ph.D.	The University of Iowa, Iowa City (2003)	Associate Professor	Safety management; Industrial hygiene; Preventive medicine and environmental health.
Richards, Ira	Ph.D.	New York University, New York (1976)	Associate Professor	Illicit substance toxicology; Toxicology; Respiratory toxicology; Asthma research; Hazard preparedness; Environmental emergency responsiveness; Laboratory safety.
Stuart, Amy	Ph.D.	Stanford University (2002)	Assistant Professor	Air Pollutant Transport and Chemistry; Environmental Computational modeling; Human Exposures to Air Pollutants
Szollas, Rosemary	MD	University of South Florida (2002)	Instructor	Effective pain management strategies for the Workers' compensation patient

Name	Degree	Institution, year	Level	Research Interests
Szonntagh, Eugene	Ph.D.	Technical University of Budapest (1975 & 1999)	Professor	Chemical agents.
Wagner, Norbert	PhD MD	University of Hamberg, Germany (2005) Technical University of Aachen, Germany (1986)	Associate Professor	International environmental and occupational health
Wolfson, Jay	DrPH JD	The University of Texas, Health Sciences Center, Houston (1981) Stetson University (1993)	Full Professor	Health law, finance, and policy; Workers compensation and employee health benefits programs; Legal and financial factors influencing physician and hospital organization and operation.
EPIDEMIOLOGY AND BIOSTATISTICS				
Barnett, Elizabeth	Ph.D.	University of North Carolina, Chapel Hill (1993)	Associate Professor	Cardiovascular disease; Social inequalities in health; Medical geography; Racial and ethnic disparities in health; African-American health issues
Borenstein, Amy	Ph.D.	University of Washington, Seattle (1988)	Full Professor	Genetic and environmental causes of Alzheimer's disease and related dementias in the elderly; Detection of Alzheimer's disease many years before symptoms emerge; Studies of older African-Americans.
Brown, Charles	Ph.D.	University of Chicago, Chicago (1981)	Full Professor	Biostatistics; Prevention research; Missing data; Multivariate statistics; Longitudinal design and analysis; Psychiatric epidemiology; Computational statistics.
Dagne, Getachew	Ph.D.	University of California, Riverside (1996)	Associate Professor	Behavioral data analysis; Image processing; Spatial statistics; Bayesian inference
Huang, Yangxin	Ph.D.	Liverpool John Moores University, Liverpool (2000)	Assistant Professor	HIV Dynamic modeling for durg exposure; drug efficacy and response of anti retrovirial therapies in AIDS clinical trials; biolobical mechanisms of HIV infection and treatment strategies
Mason, Thomas	Ph.D.	The University of Georgia, Athens (1973)	Full Professor	Geographically-determined risks for cancer and other chronic diseases; Lung and bladder cancer etiologies; Computer applications in epidemiology; Screening for bladder cancer with occupational cohorts; Defined - population surveillance systems
Mortimer, James	Ph.D.	University of Michigan, Ann Arbor (1970)	Full Professor	Preclinical detection of Alzheimer's disease in the general population; Co-PI of the Nun Study
Nembhard, Wendy	Ph.D.	The University of Texas, Health Sciences Center, Houston (2000)	Assistant Professor	Preterm delivery/low birth weight; birth defects; pregnancy-related hypertension; women's health; Infant mortality

Name	Degree	Institution, year	Level	Research Interests
O'Rourke, Kathleen	Ph.D.	University of Massachusetts at Amherst, Amherst (1994)	Professor	Unintended pregnancy among the U.S. Military: Health promotions among Hispanic and African-American women
Salihu, Hamisu	PhD	University of South Florida (2001)	Associate Professor	Multiple pregnancies; Stillbirth; Maternal Obstetric complications including near-miss and maternal morality; Successive pregnancy outcomes; Racial/ethnic disparities in birth outcomes; International maternal and child health
Sanchez-Anguiano, Aurora	Ph.D.	University of South Florida, Tampa (1999)	Visiting Assistant Professor	Occupational and infectious disease epidemiology; Falls and injury prevention.
Schwartz, Skai	Ph.D.	The University of North Carolina, Chapel Hill (1995)	Associate Professor	Cardiovascular; Sleep; Psychosomatics; Methodology; Pharmacoepidemiology.
Stockwell, Heather	ScD	The Johns Hopkins University - School of Hygiene and Public Health, Baltimore (1984)	Full Professor	Cancer epidemiology; Environmental and occupational causes of cancer; Cancer in women and minorities; Radiation epidemiology; Methodologic issues in case-control studies; Epidemiologic health surveillance
Wang, Tao	Ph.D.	Ohio State University (2005)	Assistant Professor	Statistics genomics; bioinformatics; design and analysis of micro array gene expression data; Breast Cancer studies using micro array technology
Wang, Wei	Ph.D.	Fudan University, China (1999)	Visiting Instructor	Survival analysis; quantitative analysis of supply chain and logistic system and mixed-effect models: Prevention studies and Methodologies
Wu, Yougui	Ph.D.	University of Maryland, College Park (2001)	Assistant Professor	Design issues in longitudinal studies; Biostatistical methods in dementia; Family data analysis
Zhu, Yiliang	Ph.D.	University of Toronto, Canada (1991)	Professor	Health risk assessment; Longitudinal data and semiparametric methods; Internet-based teaching tools using Splus and Java; Incomplete data
GLOBAL HEALTH				
Azizan, Azliyati	Ph.D.	University of Tennessee, Memphis (1995)	Assistant Professor	Molecular and cellular biology; Microbiology; Tropical public health.
Cannons, Andrew	PhD	University of Bradford, United Kingdom (1984)	Assistant Professor	Developing rapid detection and molecular typing methods for identification and surveillance of agents of bioterrorism; emerging infectious diseases
Cattani, Jacqueline	Ph.D.	University of California, Berkeley, Berkeley (1984)	Professor	Biodefense; Global health; Disease surveillance; Intervention research.
De Baldo, Ann	Ph.D.	University of South Florida, Tampa (1980)	Full Professor	Tropical public health; Immunology; Infectious Diseases.
Haiduven, Donna	Ph.D.	University of California, San Francisco (2000)	Visiting Assistant Professor	Infectious Disease Exposure Prevention; Occupational Infection Control; Healthcare Facility Bioreadiness Plans; Percutaneous Injuries

Name	Degree	Institution, year	Level	Research Interests
Izurieta, Ricardo	DrPH MD	University of Alabama at Birmingham (2000) Central University of Ecuador (1986)	Assistant Professor	Tropical and Infectious Diseases Vaccinology
Kwa, Boo	Ph.D.	University of Malaya, Malaysia (1977)	Full Professor	Emerging infectious diseases; International health and disease; Tropical public health
Kyle, Dennis	PhD	Clemson University (1984)	Professor	Development of new drugs for malaria and leishmaniasis; mechanism(s) of resistance to antimalarial drugs; chemical biology
Landis, Danielle	PhD	University of South Florida (2003)	Assistant Professor	Global health; competencies to curriculum; leadership; workforce development; public health preparedness, including leadership and epidemiology
Peterson, Donna	ScD	The Johns Hopkins University, School of Hygiene and Public Health, Maryland (1989)	Full Professor Maternal and Child Health Global Health	Maternal and Child Health, Perinatal public health
Van Olphen, Alberto	PhD DVM	Purdue University (2001) Universidad Nacional del Centro de la Provincia de Buenos Aries (1988)	Assistant Professor	Biology, detection and development of drugs against potential bioterrorism agents and emerging viral infections.
Westhoff, Wayne	Ph.D.	University of South Florida, Tampa (1994)	Assistant Professor	Latin America and Caribbean Basin; Health education; Humanitarian Assistance
Wilke-Corvin, Jaime	PhD	University of South Florida (2006)	Assistant Professor	Global Health disparities, with special emphasis in Maternal and Child Health; refugee health, humanitarian assistance, disaster management and poverty and inequality in developing countries.
HEALTH POLICY AND MANAGEMENT				
Abbott, Ann	Ph.D., JD	The University of Texas - Health Sciences Center, Houston (1998) Boston University School of Law, Boston (1975)	Assistant Professor	Public sector management; Healthy communities movement and democratic participation; Health policy analysis; Health law and ethics; Legal and ethical basis of Public Health Practice; Public health law reform.
Branch, Laurence	Ph.D.	Loyola University, Chicago (1971)	Full Professor	Gerontology, Elder Abuse, Public Health, Health Promotion and Disease Prevention, Health Policy, Survey Research

Name	Degree	Institution, year	Level	Research Interests
Large, John	Ph.D.	University of South Florida, Tampa (2002)	Assistant Professor	Quantitative methods and analysis; Production and operational analysis and optimization; Financial performance analysis and improvement methodologies.
Orban, Barbara	Ph.D.	University of California, Los Angeles (1987)	Associate Professor	Quality and strategy in health care organizations; Uncompensated care; cost, severity and length of stay for Medicare admissions; Impact of helmet use on motorcycle trauma; Emergency department costs and charges
Pracht, Etienne	Ph.D.	Louisiana State University and A&M College, Baton Rouge (1998)	Assistant Professor	Health care economics; Applied econometrics.
Sear, Alan	Ph.D.	Purdue University, West Lafayette (1971)	Associate Professor	Information systems; Health care outcomes; Organizational behavior.

College of Visual and Performing Arts

Name	Degree	Institution, year	Level	Research Interests
ART				
Babcox, Wendy	MFA	University of Florida 2000	Assistant Professor	Photography, Digital Imaging, Video, Performance
Bender, Neil	MFA	University of Georgia, Lamar Dodd School of Art 2002	Assistant Professor	Painting
Borcila, Rozalinda	MFA	Michigan State University, 1999	Associate Professor	Video, Performance, Activist Art
Byrd, John	MFA	University of Washington, 2000	Assistant Professor	Ceramics, Plastics, Taxidermy
Condon, Elisabeth	MFA	School of Art Institute of Chicago, 1986	Assistant Professor	Painting, Asian Art
Fraser, Elisabeth	Ph.D	Yale University, 1993	Associate Professor	19th Century Art History (Delacroix)
Green, Gregory	MFA	School of the Art Institute of Chicago	Assistant Professor	Sculpture
Hirt, Victoria	MFA	Rhode Island School of Design, 1986	Associate Professor	Photography, Digital Imaging
Lawrence, Robert	MFA	University of California, 1987	Assistant Professor	Video, Site Sculpture
Marchi, Riccardo	Ph.D	University of Chicago, 2002	Assistant Professor	20th Century Art History (Kondinaky)
Marcus, Louis	MFA	University of Colorado, 1982	Professor	Photography, History of Photography
Murray, Derek	Ph.D	Cornell University, 2005	Assistant Professor	Contemporary Art, Critical Theory
Pollack, Anat	MFA	Carnegie Mellon University, 2003	Assistant Professor	New Media, Sculpture
Schiller, Noel	Ph.D.	University of Michigan	Assistant Professor	Renaissance and Baroque Art History (Dutch)
Shanks, Bradlee	MFA	Arizona State University, 1986	Associate Professor	Printmaking
Szepe, Helena	Ph.D	Cornell University, 1991	Associate Professor	Renaissance, Medieval Art History (Venetian)
Weitz, Julie	MFA	University of Wisconsin, 2004	Assistant Professor	Painting, Drawing, Social-Political Issues
Wilson, William	MFA	The School of Art Institute of Chicago, 1975	Director/ Professor	Photography

Name	Degree	Institution, year	Level	Research Interests
MUSIC				
Brantley, Kenneth	MM	University of North Texas, 1999	Associate Professor	Trombone
Coble, Jay	DMA	University of Southern California, 1996	Associate Professor	Performance
Fung, Victor	Ph.D.	Indiana University, 1994	Professor	Music Education Ethnomusicology Conducting
Gackle, Lynne	Ph.D.	University of Miami, 1987	Assistant Professor	Choral Music Education
Hawkins, Ann	MA	USF, 1970	Associate Professor	Music Theory
Hayden, William	DA	Ball State, 1981	Associate Professor	Violin
Ivanov, Svetozar	DMA	University of Michigan, 1999	Assistant Professor	Piano
Jaworski, Warren	DM	Indiana University, 1981	Associate Professor	Voice
Kluksdahl, Scott	MM	Juilliard, 1988	Associate Professor	Cello
Lee, Sang-Hie	Ph.D.	University of Michigan, 1985	Associate Professor	Admin Music Education Piano
McCormick, Kim	DMA	University of North Texas, 1992	Assistant Professor	Flute
McCormick, Robert	MA	San Jose State University, 1973	Professor	Percussion
Monroe, Annetta	Performer's Certificate	Mozarteum Academy (Salzburg), 1961	Associate Professor	Voice
Moorhead, Brian	MM	Northwestern University 1979	Associate Professor	Clarinet
Niskala, Naomi	DMA	SUNY Stony Brook 2000	Assistant Professor	Piano
Owen, Charles	MA	California State University-Northridge, 1979	Professor	Conducting Music Education
Reller, Paul	MM	Eastman School of Music, 1991	Associate Professor	Composition
Reynolds, Jerald	MM	University of Oregon, 1963	Associate Professor	Voice
Robinson, Michael	DMA	University o Miami 1998	Visiting Professor	Conducting
Robison, John	DMA	Stanford University 1975	Associate Professor	Music History

Name	Degree	Institution, year	Level	Research Interests
Rodriguez, Carlos Xavier	Ph.D.	Northwestern University, 1995	Associate Professor	Music Education
Stuart, Carolyn	DMA	SUNY Stony Brook, 1999	Assistant Professor	Violin
Summer, Averill	DM	Indiana University 1979	Associate Professor	Piano
Summer, Robert	DM	Indiana University 1978	Professor	Choral music and literature
Timpson, Michael	DMA	University of Michigan 19978	Assistant Professor	Composition
Weast, Wade	DMA	SUNY Stony Brook, 1990	Professor	Trumpet
Wiedrich, William	DMA	University of Michigan 1995	Associate Professor	Conducting
Wilkins, Ashby	MM	Indiana University, 1985	Professor	Jazz, Saxophone
Williams, David	Ph.D.	Northwestern University 1997	Associate Professor	Music Education
Zielinski, Richard	DMA	Univ Illinois 1991	Associate Professor	Chorus and choral conducting

GRADUATE SCHOOL ADMINISTERED PROGRAMS

Name	Degree	Institution, year	Level	Research Interests
APPLIED BEHAVIOR ANALYSIS – Contact the program for information				
Miltenberger, Raymond			Director	
Fox, Lisa			Faculty, Dept of Child and Family Studies	
Stokes, Trevor			Faculty, Dept of Child and Family Studies	
Clark, Hewitt B. "Rusty"			Faculty, Dept of Child and Family Studies	
Blair, Kwan-Sun			Faculty, Dept of Child and Family Studies	
CANCER BIOLOGY– Contact the program for information				
ENTREPRENEURSHIP IN APPLIED TECHNOLOGIES – Contact the program for information				

Section 4
Graduate Admissions

Office of Graduate Admissions

University of South Florida
Office of Graduate Admissions
4202 E. Fowler Ave, BEH304
Tampa, Fl 33620-8470

Website: http://admissions.grad.usf.edu/

Phone: 813-974-8800
U.S. Toll-Free: 1-866-974-8800
Fax: 813-974-7343
E-mail: admissions@grad.usf.edu

Assistant Director: Francisco Vera
Admissions Staff: Mark Freeman,
Deise Cedeño, Nancy Moenning, David Shocklee

University Admissions Criteria and Policies

Also see USF Regulation USF3-018: Admission to the University of South Florida;
http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Statement of Principles
In graduate admission decisions, multiple sources of information should be used to ensure fairness, promote diversity and balance the limitations of any single measure of knowledge, skills, or abilities. The sources may include: undergraduate grade point average, letters of recommendation, personal statements, samples of academic work, portfolios, auditions, professional experience related to proposed graduate study, as well as nationally known, standardized test scores. It is the responsibility of each graduate program to select admissions criteria that best predict success in their specific field and to determine the weight given to each measure.

None of the sources of information, particularly standardized test scores, should be used in isolation nor should such scores be used in combination or separately to establish minimum or "cut off" scores. Program specific guidelines for the use of standardized test scores should be developed based on the experience of a given department with its pool of applicants.[1]

Admission Requirements
Each applicant to a graduate program at the University of South Florida is required to meet the following minimum requirements:

1. An applicant must have **one** of the following:
    a. A bachelor's degree from a regionally accredited institution and satisfying at least one of the following criteria:
        i. "B" average or better in all work attempted while registered as an undergraduate student working for a degree, **or**
        ii. "B" or better average in all work attempted while registered as an upper division undergraduate student working for a baccalaureate degree.
    b. A bachelor's degree from a regionally accredited institution and a previous graduate degree from a regionally accredited institution.
    c. The equivalent bachelors and/or graduate degrees from a foreign institution.
2. Submission of a GRE/GMAT score is required unless specifically waived by the University.
3. All specific and additional requirements of the graduate program to which admission is sought (including requirements to submit standardized test scores) consistent with the above Statement of Principles.

The Program Chair and College Dean must approve any exceptions to these requirements with information copies to the Graduate School.

[1] *Adapted from the GRE "Guide to the Use of Scores" 2003-2003*

International Applicants
Students who are **not** United States citizens or who have **not** already been granted Permanent Resident Alien status (hold a Green Card) must apply through the Office of International Admissions (http://web.usf.edu/iac/admissions/). All requirements and application materials are available at this website.

Application Procedures
Applications are accepted up to one year in advance of the desired term of entry and therefore, prospective applicants are strongly encouraged to apply early. Applicants are responsible for submitting applications before the appropriate program or university application deadlines. Applications are considered "on time" if they are received by the Office of Graduate Admissions or the desired program (if that program is a Direct Receipt program) on or before the appropriate deadline. Program deadlines are listed in the Application to Graduate School at USF and on the Graduate Admissions web site at http://admissions.grad.usf.edu/.

Priority is given to those applications that are received before the application deadline and are complete when submitted. Complete applications received after the deadline date will be processed for the next available semester. The Office of Graduate Admissions considers domestic applications complete if they include:

1. the appropriate application fee
2. one official transcript of at least 6 semesters of completed undergraduate work
3. GRE/GMAT test scores, as applicable

Applicants whose native language is not English or who have not earned a degree in the U.S. must submit a TOEFL score (refer to Test Scores).

Application Checklist
All applicants must submit the following items in addition to the completed application form:

- ❑ Application Fee
- ❑ Transcripts
- ❑ Test Scores
- ❑ Conduct Clearance Policy (Legal Disclosure Statement)
- ❑ Residency Policy
- ❑ Application Documents Access / Forward/Return Policy
- ❑ Additional Requirements of Programs (If Applicable)

Application Fee

All applicants are required to submit an application fee of **$30.00** for **EACH** graduate program (see USF Regulation USF4-0107: Special Fees, Fines and Penalties http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm Please attach a check or money order drawn on a US bank in US currency, made payable to USF. If you attended USF as a former degree seeking student or non-degree seeking student then you MUST SUBMIT the application fee. Any application received without the required fee will NOT be processed, and will be destroyed two months after being received. **ALL APPLICATION FEES SUBMITTED ARE NON-REFUNDABLE.**

Transcripts

One (1) official transcript from all institutions of higher learning where the applicant has earned a degree are required, but applicants may provide unofficial copies of transcripts to expedite the processing of their applications. Any admissions granted using unofficial transcripts **will not** be finalized until official transcripts are received in a sealed envelope from the Office of the Registrar where they attended. All transcripts must be in English; it is the applicant's responsibility to have transcripts translated/evaluated (if necessary) before submitting them as part of their graduate application packet. If you are applying while still completing an undergraduate degree, you must submit transcripts of at least six (6) semesters of completed undergraduate work. Final transcripts showing the award of a bachelor's degree will be required if an applicant is admitted and enrolls. Do not submit USF transcripts if you have attended as a USF degree-seeking student.

Test Scores

GRE (Graduate Record Examination):
http://www.gre.org

All applicants to programs requiring the GRE[2] must submit GRE test scores earned within five (5) years of the desired term of entry. Official scores must be

[2] The GRE requirement may be waived at the discretion of individual graduate programs. Please contact your program of interest directly for additional information.

submitted to USF directly from the Educational Testing Service, but applicants may provide unofficial copies of their test scores to expedite the processing of their applications. Any admission granted using unofficial scores will not be finalized until official scores from ETS are received. The institution code for USF is 5828 and applies to all tests administered by ETS.

GMAT (Graduate Management Aptitude Test):
http://www.gmac.com

Applicants to programs in the College of Business should submit GMAT[3] scores earned within five (5) years of the desired term of entry. Official scores must be submitted to USF directly from the Pearson VUE Testing Service, but applicants may provide unofficial copies of their test scores to expedite the processing of their applications. Any admission granted using unofficial scores will not be finalized until official scores from Pearson VUE are received. The following are the institution codes for USF administered by Pearson VUE.

VP9-M4-23 Ph.D. in Business Administration
VP9-M4-04 Executive M.B.A.
VP9-M4-97 M.B.A., Full Time
VP9-M4-80 M.B.A., Part Time
VP9-M4-25 M.B.A., USF St. Petersburg
VP9-M4-18 Masters in Accountancy
VP9-M4-67 M.A. in Economics
VP9-M4-17 M.S. in Management
VP9-M4-66 M.S. in Management Information Systems
VP9-M4-48 M.S. in Entrepreneur in Applied Technology
VP9-4J-76 Health Administration, College of Public Health

TOEFL (Test of English as a Foreign Language):
http://www.toefl.org

Applicants whose native language is not English or who have not earned a degree in the United States must also submit TOEFL scores earned within two (2) years of the desired term of entry. A minimum total score of 79 on the internet-based test, 213 on the computer-based test, or 550 on the paper-based test are required. Applications submitted with TOEFL scores that do not meet the minimum requirements will be denied with no exceptions.

[3] Applicants may not have to submit a GMAT if you have taken the GRE. Please contact your program of interest directly for additional information.

The TOEFL requirement may be waived if the applicant meets one of the following conditions:

- Has scored 500 or higher on the GRE Verbal Test
- Has earned a college degree at a U.S. institution of higher learning
- Has earned a college degree from an institution whose language of instruction is English (must be noted on the transcript).
- Has scored 6.5 on International English Language Testing System (IELTS) http://www.ielts.org/

Conduct Clearance Policy

All graduate applicants are required to answer the Conduct Clearance portion of the graduate application. The applicant will not be notified of the admission decision until answers to the two questions have been received and cleared by the Vice President of Student Affairs or his/her designee (Associate Dean of Students), if warranted.

Residency Policy

Applicants desiring classification as Florida residents for tuition paying purposes must sign and complete the Florida Residents section of the Florida Residency Classification page of the Graduate Application. **Incomplete or unsigned forms will be classified as non-Florida residents.** The Office of Graduate Admissions will classify applicants as Florida residents if they have provided documentation that verifies they began living in Florida at least twelve months before the start of classes of their admitted term of entry. Additional documentation other than what is required may be requested in some cases. All documentation is subject to verification. The student is responsible for checking their residency classification when admitted to the University of South Florida. The residency classification is noted on the official acceptance letter. If the student feels that their initial classification is in error, they have until the last day of the term to contact the appropriate admissions office and request a re-evaluation. After the student has completed their first semester of study they may seek to have their residency reconsidered. They may submit a Request for Reclassification Form with the Office of the Registrar. This must be filed by the 5th day of classes for the term being requested. The

following are acceptable, non-conclusive evidence for establishing legal Florida residence:

- Proof of purchase of a permanent home in Florida
- Declaration of Domicile
- Florida Driver's License
- Florida Voter's Registration
- Florida Vehicle Registration
- Florida Vehicle Title
- Professional/Occupational license in Florida
- Florida incorporation or other evidence of legal residence in Florida

NOTE: Rent receipts, lease, tax returns, school/college records are NOT evidence of establishing a legal Florida residence.

Application Documents Access/Forward/Return Policy

No application, test scores, transcripts, letters of recommendations, or other documents submitted with the application packet will be returned to the applicant or forwarded to another institution/third party. The Office of Graduate Admissions applicant file is not to be released to the applicant or other third parties. Requests, subpoenas, or court orders are to be forwarded to the Office of the General Counsel after review by the Director of Graduate Admissions.

Applicants once admitted and enrolled during the term of admission may request access to their student file at the Office of the Registrar. Letters of Recommendation that the applicant has waived the right to view (indicated on Request for Recommendation Form) are not to be given, copied or viewed by the applicant or third parties. Requests for degree/enrollment verification information are referred to the Office of the Registrar.

The Office of Graduate Admissions graduate application files may be copied and released to USF staff conducting legitimate University business.

Additional Requirements of Programs
(If applicable)

Many programs require additional application materials such as resumes, writing samples, or letters of recommendation. These items may be sent as part of the overall graduate application packet or directly to the appropriate department/program. These materials will be forwarded to the appropriate program if sent with the application packet but DO NOT become part of the applicant's permanent file; therefore, the Office of Graduate Admissions does not track them.

Final Admission Criteria
Applicants accepted for admissions whose official documents (transcripts and/or test scores) have been received by the Office of Graduate Admissions are admitted as "Final." The admission file is complete.

Provisional Admission Criteria
Applicants accepted for admission whose official documents (transcripts and/or test scores) have not been received by the Office of Graduate Admissions are admitted provisionally pending receipt of these missing items. The required transcripts and/or test scores must be received before a third semester registration is permitted. If the missing documents are not provided by the end of the second semester of attendance, the Office of Graduate Admissions will place a registration hold on the student's file.

Exception Admission Criteria
The University may admit up to 10% of new enrollees as exceptions to the Board of Trustees minimum requirements. To be considered for an exception, a student should present evidence that their academic preparation was such that it might account for less than the minimal University and/or program requirements, and evidence of potential for academic success such as excellent letters of recommendation from trusted academicians, performance in graduate courses taken as a post-bachelor's student, professional experience in his/her discipline for a period of time, etc. Each request for a 10% exception must include a statement describing the special circumstances of the applicant. It is the discretion of the program and college to accept exception application requests.

Conditional Admission Criteria
A program and/or college may admit students conditionally upon satisfaction of requirements separate from University minimum requirements. These conditions may include attendance in specific core or remedial courses and/or required earned GPA of 3.0 for those courses. Failure to satisfy those conditions by the deadline established by the program will result in academic dismissal from the program.

Deferment of Admission Request
A student's acceptance is granted for that semester and the particular program specified in the official acceptance notification. The student must validate

that acceptance by enrolling for that semester. Students who fail to validate their admission may contact the Graduate Program Director and request a Deferment of Admission. This request must be made in writing within 12 months of the initial requested entry date. If a request for Deferment of Admission is not received in the specified time, a new application and fee must be submitted. Deferment requests must also be received no later than the program or University application deadline for the semester desired, whichever is earlier. Students who were admitted provisionally upon receipt of official test scores and/or transcripts must supply those missing items prior to having their deferment decision processed by the Office of Graduate Admissions. International students must also provide a new financial statement dated no earlier than 6 months before the requested date of entry.

Update of Admission Request

If admission has not been granted because of a late application or missing credentials, the student must request that the Office of Graduate Admissions update the application for a future semester and specify the new enrollment date. This request must be made in writing within 12 months of the initial requested entry date and must be received no later than the program or University application deadline for the semester desired, whichever is earlier. Applications are held for only 12 months. If a request for change in entry date is not received in the specified time, a new application and fee must be submitted. The Office of Graduate Admissions will not process any update requests without first receiving all official test scores and/or transcripts.

Denial of Admission / Appeal for Reconsideration Criteria

Applicants denied admission will be given timely notice by email or in writing. Denied applicants who meet the minimum system wide standards may write the Graduate Program Director of the program to which they applied within 30 days of the date of denial to request reconsideration. The request should present additional evidence of potential for academic success at USF and contain reasons why reconsideration is warranted. Applicants denied admission to a degree-seeking program are eligible to enroll as special (non-degree seeking) students. Non-degree seeking applications must be submitted to the Office of the Registrar.

Reinstatement of Admission Request

A graduate student who has not been in attendance for at least one semester during the past 12 months must apply for Reinstatement of Admissions by contacting the Graduate Program Director of his/her degree-seeking program. Students may obtain the form at www.grad.usf.edu (Click on Graduate School Forms.) Requests for reinstatement must be received no later than the program's admissions deadline date. Students requesting reinstatement must submit a completed Reinstatement of Admission Request Form and Residency Form directly to the program to which reinstatement is sought. An application and an application fee are NOT required when seeking a reinstatement.

The reinstatement policy does NOT apply to inactive students wishing to enroll in a program other than the original admitting program. These students must submit an application for the new program of interest. Transcripts of any work completed while not attending USF may be required.

Change of Program Request

Change of Program Request will NOT be considered for graduate students in their first semester of study. Only a continuing graduate student enrolled for study in a particular program who wishes to change to another program at the same or lower level must complete the Change of Program Request Form #USF 2085. It is up to the discretion of the student's original program to determine if a Change of Program is appropriate and will be granted. Students may obtain the form at www.grad.usf.edu (Click on Graduate School Forms.) This form must be signed both by the current program and the new program, after which it must be submitted to the Graduate School for approval. If approved by the Graduate School, the change of program form is then sent to the Registrar for processing.

NOTE: Some programs may require another application to be submitted because the Change of Program Request Form does not contain sufficient information for them to make a decision. You should check with the new program before completing any paperwork. *Also see other sections pertaining to Change of Program.*

Students with Disabilities Policy

Students with disabilities apply for admission under the same guidelines as other students. Applicants believing that a disability has had an impact on grades, course choice, or standardized admission test scores, should request consideration of this during the admissions process. Students requesting substitution of departmental guidelines will need to contact the appropriate department chairperson. Please submit supporting documentation when requesting a disability exception. Students bear the responsibility for providing documentation of their disabilities. The

University reviews documentation and determines if students are eligible for services and accommodations because of disabilities. The Office of Student Disability Services is charged with the task of determining eligibility. Accommodations and services are not provided on a retroactive basis. Approval must be given prior to receiving services or accommodations. The process begins when students provide documentation of disability and meet with a coordinator in the Office of Student Disability Services to request in writing services and accommodations. Any faculty members or students who have questions about this process are encouraged to contact the Office of Student Disability Services at (813) 974-4309 or visit the website at http://www.sa.usf.edu/sds

Section 5
Registration and General Information

Office of the Registrar

Phone: 813-974-2000
TTY: 813-974-4488
E-mail: regquest@admin.usf.edu
Website: http://www.registrar.usf.edu/

The Office of the Registrar maintains the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the Office of the Registrar about general questions concerning academic policies and procedures of their current registration or academic record. Note: Each student must be aware of the University's academic policies and procedures insofar as they affect him/her.

Registration Information

Also see USF Regulation USF4-0101, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

To register for classes, students must login to OASIS – http://usfonline.admin.usf.edu/. Per Florida Statutes, students must submit a Medical History Form required for all students, regardless of age and degree seeking status, available at the website: http://shsweb.shs.usf.edul. Questions may be directed to Student Health Services by phone at 813-974-2331. Additional information on all registration requirements and procedures may be found in the Schedule of Classes at http://usfweb.usf.edu/ssearch/search.htm or at the Registrar's office website at: http://www.registrar.usf.edu/index.php

Degree-seeking students who do not register prior to the first day of classes may late-register the first week of classes. A late registration fee is charged during this week. To avoid cancellation of registration, fees and tuition are due and payable for all registered courses of record on the fifth day of classes (end of drop/add period).

Students are responsible for verifying the accuracy of their course registration by the end of the drop/add period (i.e. by the fifth day of classes). In the event there are courses incorrectly listed or missing on the record, students should go into OASIS and make the necessary corrections. Course registration not corrected by the end of the fifth day of classes will result in liability of tuition and fees. If courses need to be added or dropped after the fifth day of classes, refer to the Add / Drop sections of the Catalog.

Medical Requirements for Registration
Student Health Services is charged with the responsibility of evaluating and maintaining medical requirements for registration for all University of South Florida students. According to Florida Administrative Code Rule 6C-6.001(4) "Each student accepted for admissions shall, prior to registration, submit on a form provided by the institution a medical history signed by the student." As a prerequisite to matriculation or registration, the State University System of Florida requires all students born after 1956 to present documented **proof** of immunity to **MEASLES** (Rubeola) and **RUBELLA** (German Measles)

http://shsweb.shs.usf.edu/RegMedReqs.html#proof

New admits will be provided a Medical History / Immunization Form with their admissions letter. Upon request, Student Health Services will mail or fax a Medical History/Immunization Form to you, or you may download a form from the Student Health Services Forms page and print it on a **laser or inkjet** printer. In order to register, this form must be completed, signed, and returned to:

Student Health Services
University of South Florida
4202 East Fowler Avenue, SHS 100
Tampa, FL 33620-6750
Fax: (813) 974-5888
Telephone: (813) 974-4056

Administrative Holds
A student may be placed on administrative hold by failure to meet obligations to the University. When a student is on administrative hold, he/she may not be

allowed to register, receive a diploma, or receive a transcript. Settlement of financial accounts must be made at the University Cashier's Office. Each student placed on administrative hold should determine from the Office of the Registrar which office placed him/her in this status and clear the obligation with that respective office.

Cancellation of Registration for Non-Payment
See USF Regulation USF4-010, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Equal Opportunity Policy

The University of South Florida System (USF System) is a diverse community that values and expects respect and fair treatment of all people. The USF System strives to provide a work and study environment for faculty, staff and students that is free from discrimination and harassment on the basis of race, color, marital status, sex, religion, national origin, disability or age, as provided by law. The USF System protects its faculty, staff, and students from discrimination and harassment based on sexual orientation. The USF System is also committed to the employment and advancement of qualified veterans with disabilities and veterans of the Vietnam era. Unlawful discrimination, harassment and retaliation are prohibited in the USF System. Behavior that constitutes unlawful discrimination, harassment or retaliation is unacceptable. (http://usfweb2.usf.edu/usfgc/gc_pp/genadm/gc007.htm)

A student or employee who believes that he or she has not been treated in accordance with the University's Equal Educational and Employment Opportunity Policy or its Policy on Sexual Harassment may file an Equal Opportunity Complaint. Additional information about these procedures may be obtained from the Diversity and Equal Opportunity Office, ADM 172, or by calling 974-4373 or 813-974-1510 (TDD). It is prohibited for any administrator, supervisor, or other employee of USF to take any retaliatory action against an individual who, in good faith, has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under provisions of applicable law.

DEO Site: http://usfweb2.usf.edu/eoa/

Academic Term and Student Information

Semester System
USF operates on a semester system. Semesters begin in August and January with Summer Sessions beginning in May and June. See *Academic Calendar* for appropriate dates.

Academic Load
See Enrollment Requirements in the Academic Policies Section

Academic Standing

Class Standing - A student's class standing is determined by the number of credits he/she has earned without relation to his/her GPA.

6M - Graduate student admitted to Master's Degree Program
6A - Graduate student admitted to Specialist Degree Program
6D - Graduate student admitted to a Doctoral Degree Program (not eligible to register for dissertation hours)
6C - Graduate student admitted to Doctoral Candidacy (eligible to register for dissertation hours)
7A-7D - 1st-4th year professional program (M.D.) or post-doctoral status

Also see "In good standing" in the Academic Policies Section

Student Definitions

Degree Seeking Students are students who have been accepted into a degree program

Graduate Certificate Seeking Students are students who have been accepted into a Graduate Certificate program. Students who are non-degree seeking, but who are admitted to a Graduate Certificate may register during the same registration period as Degree-Seeking Students. Up to 12 hours of the coursework taken as a Graduate Certificate Seeking Student may be applied to a degree program. For more information about Graduate Certificates and specific requirements, go to http://www.outreach.usf.edu/gradcerts/.

Non-Degree Seeking Students are students who have not been accepted into a degree or Graduate Certificate Program. Non-Degree Seeking students

may enroll and enter classes on a space available basis by obtaining appropriate approval from the degree-granting college or academic unit in which the courses are offered. Non-Degree Seeking students must meet all prerequisites for courses in which they wish to enroll. Certain classes are available only to degree seeking students and may not be available for Non-Degree Seeking students.

Should a student be accepted into a graduate degree program, no more than 12 hours of USF credit earned as a Non-Degree Seeking student may be applied to satisfy graduate degree requirements. All coursework transferred into the graduate program must have a grade of B or better. Any application of such credit must be approved by the degree-granting college and must be appropriate to the program. *For more information, refer to the Transfer of Credit policy in the Academic Policies Section*. Prior to completing 12 hours in a specific degree program it is strongly recommended that a Non-Degree Seeking Student apply for admission and be accepted to the degree program to continue taking courses in the program. Programs may have additional requirements, so check with the program of interest for more information.

Transient Student - The SUS Transient Student program enables a graduate student to take advantage of resources available on other SUS campuses. A Transient Student, by mutual agreement of the appropriate academic authorities in both the sponsoring and hosting institutions, receives a waiver of admission requirements and application fee at the host institution and a guarantee of acceptance of earned credits by the sponsoring institution. A graduate advisor, who will initiate a visiting arrangement with the appropriate faculty of the host institution, must recommend a Transient Student. USF degree-seeking students who wish to enroll at another regionally accredited institution MUST HAVE PRIOR WRITTEN APPROVAL from their college academic advisor to receive credit for courses taken. For more information, contact the Registrar's Office at 974-2000 or on the web at http://www.registrar.usf.edu/index.php .

Student Identification Card (USFCard) Policy
University policy requires all students obtain and carry the USFCard while on campus. For more information refer to the Student Handbook at: http://www.sa.usf.edu/handbook/rights/USFIdentificationCard.htm

Student Records Policy
Pursuant to the provisions of the Family Educational Rights and Privacy Act ("FERPA"; 20 USC Par. 1232g), 34 CFR Par. 99.1 et seq, Florida Statutes Sub. Par. 228.093 and 240.237 and USF Rule 6C4-2.0021, (see http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm) Florida Administrative Code, students have the right to:

1. Inspect and review their education records;
2. Privacy in their education records;
3. Challenge the accuracy of their education records; and
4. Report violations of FERPA to the FERPA Office, Department of Education, 400 Madison Avenue, SW, Washington, D.C. 20202 and/or bring actions in Florida Circuit Court for violations of Rule 6C4-2.001, Florida Administrative Code.

Copies of the University's student records policy, USF Rule 6C4-2.0021, may be obtained from the Office of the Registrar or the General Counsel.

Academic Record
The student's academic record shall not be changed after the student has graduated. Except in cases of administrative error, the student's academic record shall not be changed once the semester has rolled.

Release of Student Information
Pursuant to requirements of the Family Educational Rights and Privacy Act (FERPA), the following types of information, designated by law as "directory information," may be released via official media of USF (according to USF policy):

Student name, local and permanent addresses, telephone listing, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, full- and part-time status, and the most recent previous educational agency or institution attended, and other similar information. The University Directory, published annually by the University, contains only the following information, however: student name, local and permanent address, telephone listing, classification, and major field of study. The Directory and other listings of "directory information" are circulated in the course of University business and,

therefore, are accessible to the public, as well as to students, faculty, and staff.

Students must inform the USF Office of the Registrar in writing (forms available for that purpose), if they wish directory information to be withheld. Such requests must be received within the first two (2) weeks of the semester and will remain in effect until the student has not been enrolled at USF for three (3) consecutive terms. Notification to the University of refusal to permit release of "directory information" via the University Directory must be received no later than the end of the first week of classes in the Fall Semester.
http://usfweb2.usf.edu/usfgc/gc_pp/acadaf/gc10-002.htm

Exclusions
Members or former members of the faculty who hold or have held the rank of Assistant, Associate, or Full Professor are not eligible to be granted degrees from USF, except upon prior authorization of the Graduate School and the Provost. In cases where a member of the immediate family of a faculty member is enrolled in a graduate degree program, the faculty member may not serve on any advisory or examination committee or be involved in any determination of academic or financial status of that individual.

Course Information

Availability of Courses
USF does not commit itself to offer all the courses, programs, and majors listed in this catalog unless there is sufficient demand to justify them. Some courses may be offered only in alternate semesters or years, or even less frequently if there is little demand. Also refer to USF Regulation USF3-017, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Course Attendance at First Class Meeting – Policy for Graduate Students
For structured courses, 6000 and above, the College/Campus Dean will set the first-day course attendance requirement. Check with the College for specific information. This policy is not applicable to courses in the following categories: Educational Outreach, Open University (TV), FEEDS Program, Community Experiential Learning (CEL), Cooperative Education Training, and courses that do not have regularly scheduled meeting days/times (such as, directed reading, or study, individual research, thesis, dissertation, internship, practicum's, etc.). Students are responsible for dropping undesired courses in these categories by the 5th day of classes to avoid fee liability and academic penalty. (See USF Regulation 6C4-4.0101, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm)

Attendance Policy for the Observance of Religious Days by Students
In accordance with Sections 1006.53 and 1001.74(10)(g) Florida Statutes and Board of Governors Regulation 6C-6.0115, the University of South Florida (University/USF) has established the following policy regarding religious observances:
http://usfweb2.usf.edu/usfgc/gc_pp/acadaf/gc10-045.htm

Course Descriptions
For a listing of the most current, approved course descriptions refer to the Search-a-Bull Database available online at
http://www.ugs.usf.edu/sab/sabs.cfm or in the course description listing in the Graduate Catalog.

Adds
After a student has completed his/her registration on the date assigned, he/she may add during the drop/add week (i.e. through the fifth day of classes) through the OASIS system. Courses may be added with instructor approval and verification up to the last day to withdraw without academic penalty. See Academic Calendar for deadlines. Courses may not be added after the deadline to withdraw without academic penalty or retroactively except in cases of University Administrative error.

Drops
A student may drop a course(s) during the following times:

1. **During regular registration and the drop/add periods (first five days of classes).** No entry of the course(s) will appear on any permanent academic records and full refund of fees is due for course(s) dropped within those periods.

2. **Between the second and tenth week of the semester (except for summer sessions - see the Summer Schedule of Classes for dates).** Registration fees and tuition must be paid for the course(s) and the academic record will reflect a "W" grade for the dropped course(s).

3. **Following the tenth week deadline *if* the request meets one of the following exceptions:**

    a) Illness of the student of such severity or duration to preclude completion of the course(s) as confirmed in writing by a physician (M.D.).

    b) Death of the student or death in the immediate family (parent, spouse, child or sibling) as confirmed by documentation (death certificate, obituary) indicating the student's relationship to the deceased.

    c) Involuntary call to active military duty as confirmed by military orders.

    d) A situation in which the University is in error as confirmed by an appropriate University official.

    e) Other documented exceptional circumstances beyond the control of the student which precluded completion of the course(s) accompanied by explanatory letter and supporting documentation.

Courses may not be dropped after the last day of classes except in cases of University Administrative error.

Fee Adjustment Options
Students who receive approval to drop a course during the second through tenth week of classes are liable for tuition and fees. However, the student may apply for a Fee Adjustment through the Registrar's Office if the student has any of the following exceptional circumstances. The Fee Adjustment form may be submitted after the petition to drop is approved and processed. The Registrar will determine if a fee/tuition refund is applicable.

1. Illness of the student of such severity or duration to preclude completion of the course(s) as confirmed in writing by a physician (M.D.).

2. Death of the student or death in the immediate family (parent, spouse, child or sibling) as confirmed by documentation (death certificate, obituary) indicating the student's relationship to the deceased.

3. Involuntary call to active military duty as confirmed by military orders.

4. A situation in which the University is in error as confirmed by an appropriate University official.

5. Other documented exceptional circumstances beyond the control of the student which precluded completion of the course(s) accompanied by explanatory letter and supporting documentation.

Deletes
A "delete" completely removes the course from the record with no history that it was ever part of the record. Courses will not be deleted from a student's record except in cases of University Administrative error. Requests for course deletions must be submitted only during the semester in which the error has occurred and only with written explanation from college faculty verifying the error. Such requests must be submitted by the last day of classes and approved by the College Dean or designee and the Graduate School Dean or designee. Retroactive requests for course deletions will not be approved. Faculty and students are encouraged to review course enrollment to verify accuracy of registration. In the event of extenuating circumstances such as documented medical emergencies, military leave or University error, students may request special consideration for deletions or retroactive deletions in writing to the Dean of the Graduate School.

Retroactive Actions
Requests for retroactive actions will no longer be considered / approved. *Also see Academic Record.*

Auditing Privileges and Fees
A student who wishes to sit in on a class to review the course material may do so; however, the student is not allowed to take exams, earn grades, or receive credit. The student's status for that class is an audit and his/her presence in the classroom is as a listener. Audit status must be obtained only during the first five days of the term by filing an Audit Form and a date-stamped permit from the college/department on the campus where the course is being offered, with the Registrar's Office. IN-STATE fees are assessed for all audit courses. Procedure and forms for requesting to audit are available on the Registrar's website. Also refer to USF Regulation USF4-017, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Cancellation of Registration before First Class Meeting
Students may cancel their registration by notifying the Office of the Registrar in writing prior to the first day of classes. If fees have already been paid, the

student may request a full refund of fees and tuition from the Office of Purchasing and Financial Services.

Withdrawal
A student may withdraw from the University without academic penalty during the first nine weeks of any term (except for Summer Sessions). He/she must submit a completed Withdrawal Form to the Office of the Registrar. No entry is made on the academic record for withdrawals submitted during the first week of the term. All subsequent withdrawals (through the ninth week of classes in the fall and spring semesters; see the Academic Calendar for summer deadlines) are posted to the academic record with "W" grades assigned to the courses.

Withdrawal deadlines for the summer sessions are listed in the **Academic Calendar** and are published in the *Schedule of Classes* for the Summer Term. Students who withdraw may not continue to attend classes. Students who withdraw during the drop/add period as stated in the **Academic Calendar** may receive a full refund of fees and tuition. All refunds must be requested in writing from the Office of Purchasing and Financial Services. No refund is allowed after this period except for specified reasons

Parking Information and Campus Maps

For information on USF Parking Services, policies, and regulations, refer to:

USF Parking and Transportation Services website:
http://usfweb2.usf.edu/parking_services/default.asp

USF Regulations: 6C4-4.00210 through 6C4-00219 and 6C4-0023 through 6C4-0029, FAC, available at:
http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Campus maps are available online at:
http://usfweb2.usf.edu/parking_services/maps.asp

Section 6
Tuition, Fees, and Financial Information

Tuition Information

For tuition information refer to the link: http://www.usf.edu/pfs/tuition_cost.htm. All tuition and fees are subject to change, without prior notice. For information on Residency for tuition purposes, refer to the Florida Residency Policy.

All registration fees and all courses added during the drop/add period must be paid in full by the payment deadline date specified in the current **Schedule of Classes**. Registration fee payment may be made in person or mailed to the Cashier's office. Students not on an authorized deferred payment plan and who have not paid their registration fees in full by the published deadline will have their registrations canceled. A student will not receive credit for any courses taken during that semester. Students who are allowed to register in error may have their registration canceled. Any fees paid will be refunded or credited against any charges due the University.

Tuition Waivers, Non-Resident
See USF Regulation USF6C4-3.024, at http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Veteran Deferment Benefits

Students receiving VA benefits who apply in writing no later than the specified date for the 60-day deferment of fees from the Office of Veteran's Services must pay registration fees in full by the date posted online:
http://usfweb2.usf.edu/vetserve/reminders.htm

For more information contact USF Veteran's Services: at (813) 974-2291 or
http://usfweb2.usf.edu/vetserve/

Financial Aid

Financial assistance is available through the Office of Financial Aid. Students requiring such assistance should contact http://www.usf.edu/finaid for information. Students eligible for tuition waivers (through assistantships, or employee benefits, etc.) should contact the department and/or college providing the waiver for information. Also see USF Regulation USF6C4-6-0121 and USF6-6C4-6-012.

Office of Financial Aid Policy on Refunds and Repayments

Refer to USF Policy 30-013 at
http://usfweb2.usf.edu/usfgc/gc_pp/studaf/gc30-013.htm

Special Fees, Fines, and Penalties

See USF Regulation USF4-017, at
http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Section 7
Academic Policies and Regulations

Academic Policy Information

For USF Regulations refer to http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

For USF Policies refer to http://usfweb2.usf.edu/usfgc/gc_pp/pp.htm.

Student Responsibilities

The University, the Colleges, and the degree programs have established certain academic requirements that must be met before a degree is granted. While advisors, directors, department chairpersons, and deans are available to assist the student meet these requirements, it is ultimately the responsibility of the student to be acquainted with all policies and regulations, and be responsible for completing requirements. If requirements for graduation have not been satisfied, the degree will not be granted.

The information presented here represents the University Academic Policies. Colleges and departments may have additional requirements. Check with your College Graduate Coordinator or your Department Program Director for more information.

Courses, programs, and requirements described in the Catalog may be suspended, deleted, restricted, supplemented, or changed at any time at the sole discretion of the University and the Board of Trustees. For a list of current course descriptions, refer to the Search-A-Bull database online at http://www.ugs.usf.edu/sab/sabs.cfm.

Student Conduct

Members of the University community support high standards of individual conduct and human relations. Responsibility for one's own conduct and respect for the rights of others are essential conditions for academic and personal freedom within the University. USF reserves the right to deny admission or refuse enrollment to students whose actions are contrary to the purposes of the University or impair the welfare or freedom of other members of the University community. Disciplinary procedures are followed when a student fails to exercise responsibility in an acceptable manner or commits an offense as outlined in the Student Conduct Code. These are described in detail on the Student Affairs website: : http://www.sa.usf.edu/handbook/rights/StudentCodeofConduct.htm

Academic Dishonesty and Disruption of Academic Process

Refer to USF Regulation USF 3-0015, at http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Examples of Proper Citation and of Plagiarism
In addition to the examples below, information on plagiarism may be found on the Center for Teaching Excellence website at: http://www.cte.usf.edu/plagiarism/index.html, in the Student Handbook at: http://www.sa.usf.edu/handbook/academics/ImportantAcademicPolicies.htm and on the USF Library website at: http://www.lib.usf.edu/services/plagiarism.html

Proper Citation
Examples of proper citation (footnote format) are as follows [Footnoting/citation styles will depend upon those used by different academic disciplines. Many disciplines in the Natural Science areas, for example, will cite the sources within the body of the text.]

> "Plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." [1][Direct quotation] [1]Harry Shaw, Concise Dictionary of Literary Terms (McGraw-Hill, 1972), pp. 209-210.

As Harry Shaw states in his Concise Dictionary of Literary Terms, "Plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." 1[Direct quotation with an introductory statement citing the source.] 1(McGraw-Hill, 1972), pp. 209-210.

Plagiarism is literary theft. To emphasize that point, Harry Shaw states that the root of the word comes from the Latin word meaning "kidnapping." 1[Paraphrasing] 1Concise Dictionary of Literary Terms (McGraw-Hill, 1972), pp. 209-210.

In defining plagiarism, "Strategies for Teaching with Online Tools" suggests that visibility makes intellectual theft less probable. 1[Paraphrasing a Web site] 1 http://bedfordstmartins.com/technotes/hccworkshop/plagiarism.htm

Examples of proper citation (in body of text):

Shaw (1972) states that the root of the word comes from the Latin word meaning "kidnapping." [Paraphrasing; complete information about source will be cited in a section at the close of the text.]

Shaw (1972) was correct when he stated that "plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." [Quotation; complete information about source will be cited in a section at the close of the text.]

Plagiarism.org suggests that a searchable database of papers might assuage what Shaw called a "kidnapping" of intellectual content. [Paraphrasing of a Web site; the complete information on the Web site will appear in the works cited section.]

Plagiarism

The following are examples of plagiarism because sources are not cited and appropriate quotation marks are not used:

Plagiarism, from a Latin word meaning "kidnapping," ranges from inept paraphrasing to outright theft.

Plagiarism comes from a Latin word meaning "kidnapping" and ranges from paraphrasing to theft.

Plagiarism ranges from inept paraphrasing to outright theft.

Visibility online makes plagiarism much more difficult for the would-be thief.

Graduate School Policy on Academic Integrity

The Graduate School holds academic integrity in the highest regard. Students are responsible for being aware of and complying with University Regulations and Policies and must conduct themselves accordingly.

Per the USF Regulation 3-0015 on Academic Dishonesty, available online at: http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm, students who committee Academic Dishonesty may receive an "F" on the assignment, an "F" in the course, or an "FF" in the course. Refer to the regulation for the exact requirement.

Graduate students who are assigned an "FF" grade will be academically dismissed from the University and will not be eligible to apply to any graduate program at USF. Procedures for filing an academic dismissal are available on the Graduate School Website at www.grad.usf.edu

Standards and Discipline

Any action or the aiding, abetting, or inciting of any action which is in violation of the University's Student Conduct Code and/or University Policy constitutes an offense for which students may be subject up to and including dismissal. Students are responsible for compliance with all public laws as well as University Rules and Regulations. Students should also familiarize themselves with the University's Administrative Policies as defined in the Student Handbook: http://www.sa.usf.edu/sjs/code3-28-03.htm

These include: the Equal Opportunity Policy; the Policy on Sexual Harassment; the policy on Sexual Assault and Battery; the Alcohol Beverage Policy; the Policy on the Illegal Use of Controlled Substances and Alcohol; and the Policy on Hazing. Any act that will constitute a violation of public laws at the University will establish cause for additional legal action.

Due Process Rights

University disciplinary procedures afford students all rights of due process required for disciplinary

matters. These include: being informed in writing of the formal charges; being given three working days to respond to the charges; having the choice of asking for an informal hearing; being provided a copy of the hearing procedures; being permitted to present evidence; and being given the opportunity to cross-examine any witness. For more information refer to Student Judicial Services http://www.sa.usf.edu/sjs/

University Academic Grievance Procedures

To assure students the right to redress of academic grievances, any student may file a question or complaint in the Graduate School.

May 7, 2004; Revised and approved by UGC on Oct. 11, 2004; Revised and approved by GC in Nov. 2004. Approved by Faculty Senate on November 17, 2004. USF Policy: http://usfweb2.usf.edu/usfgc/gc_pp/acadaf/gc10-002.htm

University Academic Grievance Procedures

I. Purpose-
The purpose of these procedures is to provide all undergraduate and graduate students taking courses within the University of South Florida an opportunity for objective review of facts and events pertinent to the cause of the academic grievance. Such review will be accomplished in a collegial, non-judicial atmosphere rather than an adversarial one, and shall allow the parties involved to participate. All parties will be expected to act in a professional and civil manner.

The procedures that follow are designed to ensure objective and fair treatment of both students and instructors. These guidelines are meant to govern all Colleges (exclusive of the College of Medicine which maintains its own procedures); however, as individual Colleges or campuses may have different levels of authority or titles, each student must obtain the specific designations used by each college or campus for levels of authority and titles in the process.

In the case of grade appeals, the University reserves the right to change a student's grade if it is determined at the conclusion of the grievance process that the grade given was incorrect. In such circumstances the Dean or Provost/Vice President for Academic Affairs or the Vice President for Health Sciences Center may file an administrative grade change. The term "incorrect" means the assigned grade was based on something other than performance in the course, or that the assignment of the grade was not consistent with the criteria for awarding of grades as described in the course syllabus or other materials distributed to the student. In the case of all other academic grievances the University reserves the right to determine the final outcome based on the procedures detailed herein.

II. Terms and Guidelines
An "*academic grievance*" is a claim that a specific academic decision or action that affects that student's academic record or status has violated published policies and procedures, or has been applied to the grievant in a manner different from that used for other students. Grievances may relate to such decisions as the assignment of a grade seen by the student as incorrect or the dismissal or failure of a student for his or her action(s). Academic grievances will not deal with general student complaints.

"*Instructor*" shall mean any classroom instructor, thesis/dissertation/directed study supervisor, committee member or chair, or counselor/advisor who interacts with the student in an academic environment.

"*Department Chair/Director*" shall mean the academic head of a college department or the director of a program—or in all cases a "Department's designee" appointed to handle academic grievances.

"*Dean*" shall mean a College Dean, the Dean of Undergraduate Studies, or the Dean of the Graduate School, as indicated—or in all cases a "Dean's designee" appointed to handle academic grievances for the unit.

"*Time*" shall mean "*academic time*," that is, periods when university classes are in session. **The person vested with authority at the appropriate level may extend any of the time periods contained herein for good cause.** Any extensions must be communicated in writing to all parties. For the purposes of this policy, each step shall be afforded three (3) weeks as a standard time limit. When a department considers a grievance according to published departmental procedures approved by the College Dean and Provost, the time line specified in this academic unit's procedures will govern the process and no additional notice of time extension is needed.

"*Written communication*" shall mean communication by hard copy to the recipient's address of record.

The "*burden of proof***"** shall be upon the student such that the student challenging the decision, action or grade assigned has the burden of supplying evidence that proves that the instructor's decision was incorrect. In considering grievances, decisions will be based on the preponderance of the evidence.

Neither party shall be entitled to bring *"legal representation"* to any actual grievance proceeding as this is an internal review of an academic decision.

As some Colleges may not have departments or some campuses may use different titles, the next level that applies to that College shall be substituted. If the incident giving rise to a grievance occurs on the **St. Petersburg campus**, the approved policy on that campus shall govern.

III. Resolution at the Department Level

A. The student shall first make a reasonable effort to resolve his or her grievance with the instructor concerned, with the date of the incident triggering the start of the process (i.e., the issuance of a grade; the receipt of an assignment), and the instructor shall accommodate a reasonable request to discuss and attempt to resolve this issue.

B. If the situation cannot be resolved or the instructor is not available, the student shall file a notification letter within three weeks of the triggering incident to the department Chairperson/Director. This shall be a concise written statement of particulars and must include information pertaining to how, in the student's opinion, University policies or procedures were violated. The department Chairperson/Director shall provide a copy of this statement to the instructor.

C. The department Chairperson/Director shall discuss the statement jointly or individually with the student and the instructor to see if the grievance can be resolved. If the department maintains its own grievance procedure,[4] it should be applied at this point. If the grievance can be resolved, the Chairperson/Director shall provide a statement to that effect to the student and the instructor with a copy to the College Dean.

D. If the grievance cannot be resolved, the department Chair/Director shall notify both the student and the instructor, informing the student of his/her right to file a written request within three weeks to advance the grievance to the College Level. The instructor may file a written response to the grievance petition. Upon receipt of the student's request to move the process to the College Level and the instructor's response to the grievance (if provided), the Chairperson/Director shall immediately notify the College Dean of the grievance, providing copies of the student's initiating grievance statement, any instructor's written response to the grievance, and the written request from the student to have the process advanced to the College Level. Should the student not file a written request to move the grievance to the College Level within the prescribed time, the grievance will end.

If the grievance concerns the Chairperson/Director or other officials of the department, the student has a right to bypass the departmental process and proceed directly to the College Level.

IV. Resolution at the College Level

A. Upon receipt of the grievance, the College Dean shall either determine that the matter is not an academic grievance and dismiss it or within three weeks shall establish an Academic Grievance Committee. The membership of the Committee shall be constituted as follows:

   1. Three (3) faculty members and two (2) students (undergraduate or graduate as appropriate to the case) shall be selected from the college by the Dean.

[4] Departments may develop their own formal procedures for considering grievances. Such procedures must be considered and approved by the College Dean and the Provost, and published on the Department's web site. When such procedures exist, the Department's examination of the grievance will unfold as specified in the procedures. If the Departmental process upholds the student's grievance, the Department Chair will work with the College, the student and the instructor to remedy the situation. If the Department does not uphold the grievance, the Chair will report the fact to the Dean. The student may, in such cases, request the College Level review as outlined in these university procedures.

2. Wherever practical, the Committee shall include neither members of the faculty nor students of the department directly involved with the grievance, nor faculty nor students of the student's major department. However, if requested by the department, committee, or participants, faculty or students from the department involved with the grievance or from the student's major department may provide expert or other relevant testimony in the proceedings.

A. The Committee will operate in the following manner:

1. The Committee Chairperson will be appointed by the College Dean from among the three faculty members appointed to the Committee.

2. The Committee Chairperson shall be responsible for scheduling meetings, overseeing the deliberations of the committee and ensuring that full and fair consideration is provided to all parties. The Committee Chairperson *shall vote* on committee decisions only when required to break a tie.

3. All deliberations shall be in private and held confidential by all members of the Committee and those involved in the proceedings. The recommendation of the Committee shall be based on the factual evidence presented to it.

4. Within three weeks of the Committee appointment, the Committee Chairperson shall deliver in writing to the student, instructor, department Chairperson/Director or Program Director, and College Dean a report of the findings and a recommended resolution.

5. Within three weeks of receipt of the Committee recommendation, the College Dean shall provide a decision in writing to all parties.

6. The student or the instructor may appeal the decision of the College Dean to the University Level only if the decision of the College Dean is contrary to the recommendation of the Committee or if there is a procedural violation of these Student Academic Grievance Procedures. Such an appeal must be made in writing to the Dean of Undergraduate Studies or the Dean of the Graduate School (as appropriate) within three weeks of receipt of the decision from the College Dean. Otherwise, the College Dean's decision is final and not subject to further appeal within the University.

V. Resolution at the University Level

The Provost/Vice President for Academic Affairs or the Vice President for the Health Sciences Center has delegated authority to the Dean of Undergraduate Studies to act in place of the Provost/Vice President in all academic grievance appeals involving undergraduate students unless the grievance occurred in a program within Undergraduate Studies, wherein it will go back to the Provost to redelegate. The Dean of the Graduate School will act in place of the Provost/Vice President in all academic grievance appeals involving graduate students.

A. The student or the instructor may appeal at the University Level within three weeks of the receipt of a decision made at the College Level, when the decision by a College Dean is contrary to the recommendation of a college Grievance Committee, or there is cause to think a procedural violation of these University Academic Grievance Procedures has been made. Within three weeks of receipt of the appeal to the decision, the Undergraduate/Graduate Dean in consultation with the Faculty Senate and the Student Senate, shall appoint an Appeals Committee consisting of three faculty members drawn from the university Undergraduate Council or Graduate Council (as appropriate), and two students, undergraduate or graduate (as appropriate).

B. The structure, functions and operating procedures of the Appeals Committee will be the same as those of the College Committee (i.e., chaired by one of the appointed faculty members appointed by the Undergraduate/Graduate Dean who will not vote except in the case of a tie, having no representation from either party's respective departments, developing a recommendation to the Undergraduate/Graduate Dean, etc.).

C. Within three weeks of the appointment, the Committee Chairperson shall deliver in writing to the Undergraduate/Graduate Dean a report of the findings of the Committee and a recommended resolution.

D. Within three weeks of receipt of the Committee recommendation, the Undergraduate/Graduate Dean shall provide a decision in writing to all parties.

E. If the Undergraduate/Graduate Dean's decision is that a grade change is merited, the Undergraduate/Graduate Dean shall initiate the grade change on the authority of the Provost and so inform all parties. In all academic grievance appeals, the Undergraduate/Graduate Dean's decision is final and not subject to further appeal within the University.

These procedures shall take effect commencing Fall Semester, 2005, and shall supersede all other academic grievance procedures currently in effect, with the exception of the procedures of the College of Medicine.

Appeals

Degree-seeking graduate students may appeal actions regarding their academic status or academic performance. Reports of actions and appeals will be maintained in the student's permanent file. For all appeals, the student must appeal in writing first to the department through the Major Professor or Graduate Program Director, then to the College Dean or representative, and then to the Dean of the Graduate School, if necessary.

Graduate Catalog

The USF Graduate Catalog, including college and program requirements, and program and course descriptions, is available on the web at http://www.grad.usf.edu. Each Catalog is published and in effect for the academic term(s) noted on the title page. Also see USF Regulation USF1-009, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Student's Program Degree Requirements

In order to graduate, students must meet all graduation requirements specified in the USF Catalog of their choice. As the University is dynamic, changes and updates to the catalog are anticipated. Where possible, the student controls changes to program degree requirements by the choice of Graduate Catalog. With a few exceptions,, students who are continuously enrolled may select any one Catalog published during their continuous enrollment (refer to the policy on Continuous Enrollment for more information.)

- Students cannot choose a USF Catalog published prior to admission (or readmission if reinstated) or during an academic year in which they did not complete at least two terms. If a student is dropped from the system and must be reinstated, the student's choice of Catalog is limited to the USF Catalog in effect at the time of reinstatement/readmission or any one Catalog published during their continuous re-enrollment.

- If state law or certification requirements change, the student must comply with the most current standard or criteria.

- If the College or Department makes fundamental changes to the program that necessitates changes in the degree requirements of enrolled students, the needs of those students will be explicitly addressed in the proposal for change and scrutinized by the Graduate School.

- USF procedures not related to degree requirements such as academic grievance procedures, student conduct code and other procedural processes and definitions may be updated each year and the student will be held to the most current catalog and procedures available.

- USF does not commit itself to offer all the courses, programs, and majors listed in this Catalog. If the student cannot meet all of the graduation requirements specified in the Catalog of choice as a result of decisions and changes made by the University, appropriate substitutions will be determined by the program to ensure that the student is not penalized.

Student's Program of Study
It is recommended that the department or college establish a program of study for the student at the time of admission into the graduate program, outlining the requirements for the degree sought. In the event state mandates, accreditation requirements, etc., make changes to the degree requirements necessary, it is recommended that the program provide an addendum to the program of study outlining what is required for degree completion.

Enrollment Requirements

Students receiving Veterans' Administration benefits should confirm their enrollment requirements with the Office of Veterans' Services or Veterans' Coordinator.

Minimum University Regulations

USF Full-Time Student Definition
Students taking nine (9) or more hours toward their degree in the fall or spring semester, or taking six (6) or more hours in the summer semester, will be classified as Full-Time students for academic purposes. For financial aid requirements, contact the Office of Financial Aid.

Continuous Enrollment for All Graduate Students
All graduate degree-seeking students must be continuously enrolled. Continuous enrollment is defined as completing, with grades assigned, a minimum of 6 hours of graduate credit every three continuous semesters (i.e. two (2) hours Spring/ two (2) Summer/ two (2) Fall; OR, three (3) Fall/ zero (0) spring/ three (3) Summer; OR six (6) Fall/ zero (0) Spring/ zero (0) Summer; etc.). Colleges and programs may have additional requirements. Students on an approved leave of absence are not subject to the enrollment requirement for the time approved for the leave. See also the Time Limitations Policy.

Reinstatement Following Non-enrollment
Degree-seeking graduate students who have not been continuously enrolled are automatically dropped from the system and changed to a non-degree seeking status. These students must apply for reinstatement of admission and may be subject to the admission criteria in effect at the time of reinstatement. Procedures for reinstatement are available on the Graduate Admissions Website at: http://www.grad.usf.edu/newsite/admissions/reinstatements.asp

Students, who were doctoral candidates at the time they were dropped from the system, and are approved for reinstatement, shall have the original date of candidacy, with the time limit for degree completion calculated from that original date. Students reinstated to the program may be subject to the catalog criteria, including program degree requirements, in effect at the time of reinstatement. Reinstated students must enroll in the requested term of re-entry. Students may be required to complete the minimum hours for continuous enrollment that were not previously met.

Enrollment during Comprehensive Exams and Admission to Candidacy
During the term in which students take the comprehensive exams, students must be enrolled for a minimum of two (2) hours of graduate credit. If the exam is taken between semesters, the student must enroll for a minimum of two (2) hours of graduate credit in the semester before or following the exam. Students must also be enrolled for a minimum of two (2) hours of graduate work in the semester of admission to doctoral candidacy.

Dissertation Hours
Students working on a dissertation must enroll for a minimum of two (2) hours of dissertation every semester, starting with the semester following Admission to Doctoral Candidacy, up to and including the semester the dissertation is submitted to and approved by the Graduate School. Dissertation hours may apply to the Continuous Enrollment Requirement. Colleges and programs may have additional requirements.

Enrollment during Semester of Thesis Submission
Students must be enrolled for a minimum of two (2) thesis hours during the semester that the thesis is submitted and approved by the Graduate School, usually the semester of graduation. Students not enrolled for the minimum requirement will not have the thesis/dissertation approved and therefore may not be certified for graduation.

Enrollment during Semester of Graduation
Students must be enrolled for a minimum of two (2) graduate hours during the semester of graduation.

Enrollment for Graduate Teaching and Research Assistants
Graduate Teaching and Research Assistants should be full-time students. Exceptions must be approved by the College Dean and the Dean of the Graduate School.

Leaves of Absence (LOA)
Leaves of absence may be granted to students under exceptional and unavoidable circumstances. Students requesting a LOA must specify the reasons for the leave, as well as the duration. Requested LOA may be approved for up to two years. Students requiring less than three (3) consecutive terms of absence do not need an approved LOA if they meet the continuous enrollment requirement.

Students with an approved LOA must be enrolled in the first semester after the leave expires. To request an LOA, the student must complete the form available from the Graduate School website. The LOA must be approved by the Major Professor, the Program, the College, and the Graduate School, and is noted in the student's record. If the LOA is granted, the time absent does not count against the student's time limit to obtain the degree.

Students returning from an approved LOA must reactivate their status by contacting the Graduate School for procedures. Doctoral candidates returning from a LOA must also have their candidacy status reactivated.

Academic Standards and Grades

Minimum University Requirements

In Good Standing
To be considered a student in good standing, graduate students must

- Maintain an overall minimum grade point average (GPA) of 3.00 (on a 4.00 scale) in all courses taken as a graduate student, and

- Maintain an overall minimum grade point average (GPA) of 3.00 (on a 4.00 scale) in all courses taken in each of the student's degree-seeking programs.

No grade of **C-** or below will be accepted toward a graduate degree. Students must meet the requirements to be in good standing to graduate. A student will not be certified to graduate if an IF or MF is on the transcript, unless the student requests to "accept" the IF or MF grade and the request is signed and approved by the student, program, college and Graduate School. IF or MF grades that are "accepted" will never be changed.

Grade Point Average (GPA)
The GPA is computed by dividing the total number of quality points by the total number of graded (**A-F**) hours completed. The total quality points are figured by multiplying the number of credits assigned to each course by the quality point value of the grade given. The GPA is truncated to two decimals (3.48) and is not rounded up.

Credit hours for courses with grades of **I, IU, M, MU, N, S, U, Q** and grades which are preceded by **T** (Transfer) are subtracted from the total hours attempted before the GPA is calculated. Graduate students are not eligible for grade forgiveness. All grades earned, regardless of course level, will be posted on the transcript. If a student retakes a course, both grades will be used in the determination of the GPA. Courses taken at USF as non-degree-seeking are not computed in the GPA unless the courses are transferred in and applied to the degree requirements. The program and the college must approve such actions.

Grades for transfer credits accepted toward the degree program will not be counted in the GPA unless the coursework in question was taken as a non-degree-seeking student at USF and meets the requirements stated above (see Transfer of Credit section).

Graduate Grading System

Plus/Minus Grading:
Effective fall semester 2000, graduate and undergraduate grades will be assigned quality points in the Grade Point Average (GPA) grading system. The +/- designation must be included in the syllabus provided at the beginning of the course. The use of the +/- grading system is at the discretion of the instructor. The syllabus policy is available in the office of the Provost.

Letter grade = number of grade points

A+	4.00
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	.67
F	0.00

FF	Failure due to academic dishonesty[5]
I	Incomplete, grade points not applicable
IF	Incomplete grade changed to F, 0.00 grade points
IU	Incomplete grade changed to U, grade points not applicable
M	Missing grade/no grade reported by instructor, grade points not applicable
MF	Missing grade changed to F, 0.00 grade points
MU	Missing grade changed to U, grade points not applicable
N	Audit, grade points not applicable
S/U	Satisfactory/Unsatisfactory, grade points not applicable
W	Withdrawal or drop from course without penalty, grade points not applicable
Z	Continuing registration in multi-semester internship or Thesis/Dissertation courses, grade points not applicable

Satisfactory (S)/ Unsatisfactory (U)

Graduate students may not take courses in the major on an S/U (satisfactory / unsatisfactory) basis unless courses are specifically designated S/U in the Catalog. Students may take courses outside of the major on a S/U basis with prior approval of the course professor, major professor or advisor, and the Dean of the College in which the student is seeking a degree. The student may apply a maximum of six (6) hours of such credit (excluding those courses for which S/U is designated in the Catalog) toward a master's degree. Directed Research, Thesis, and Dissertation courses are designated as variable credit and are graded on an S/U basis only. Before a student begins work under Directed Research, a written agreement must be completed between the student and the professor concerned, setting forth in detail the requirements of the course.

Incomplete (I)

An **I** grade indicates incomplete coursework and may be awarded to graduate and undergraduate students (undergraduate rules apply to all non-degree-seeking students). An **I** grade may be awarded, at the discretion of the instructor, only when a small portion of the student's work is incomplete and only when the student is otherwise earning a passing grade. An **I** grade not cleared within the next two successive academic semesters (including summer semester) will be converted to **IF** or **IU**, whichever is appropriate. **I** grades are not computed in the GPA. **IF** grades are calculated in the GPA and, if applicable, the student will be placed on academic probation or academically dismissed. Students must not re-register for courses in order to complete an **I** grade. An audit of the course should not be required to complete the **I** grade. A written contract for incomplete grades must include a description of the work to be completed, the date by which the work is to be submitted, and the signature approval of the course instructor and student, with a copy filed in the department. Students cannot be admitted to doctoral candidacy or certified for graduation with an **I** grade.

Missing (M)

The University policy is to issue an **M** grade automatically when the instructor does not submit any grade for a graduate student (undergraduate rules apply to undergraduate and non-degree-seeking students). Until it is removed, the **M** is not computed in the GPA. An **M** grade which is not cleared within the next academic semester (including summer semester) will be converted to **MF** or **MU**, whichever is appropriate**. MF** grades are calculated in the GPA and if applicable, the student will be placed on academic probation or academically dismissed. To resolve the missing grade, students receiving an **M** grade must contact their instructor. If the instructor is not available, the student must contact the instructor's department chair. Students cannot be admitted to doctoral candidacy or certified for graduation with an **M** grade.

Continuing Registration Grades (Z)

The **Z** grade shall be used to indicate continuing registration in multi-semester internship or thesis/dissertation courses where the final grade to be assigned will indicate the complete sequence of courses or satisfactory completion of the thesis/dissertation. Upon satisfactory completion of a multi-semester internship or thesis/dissertation, the final grade assigned will be an **S**. The Graduate School submits the change of grade for the last registration of thesis/dissertation courses once the thesis/dissertation has been accepted for publication.

Note: Graduation will not be certified until all courses have been satisfactorily completed. No grade changes will be processed after the student has graduated except in the case of university error. Procedures requiring petitions are processed through the Graduate School.

[5] Graduate Students who receive an FF will be academically dismissed from the University and will not be eligible to apply to any graduate program at USF. *See section on Academic Dishonesty and Graduate School Policy on Academic Integrity for more information.*

Probation

Any student who is not in good standing at the end of a semester shall be considered on probation as of the following semester. The college or program may also place students on probation for other reasons as designated by the college or program. Notification of probation shall be made to the student in writing by the department, with a copy to the College Dean. At the end of each probationary semester, the department shall recommend, in writing, to the College Dean one of the following:

1. Removal of probation
2. Continued probation; OR
3. Dismissal from the degree program.

Students with a GPA below 3.00 for two consecutive semesters will be prevented from registering for courses without the permission of the College Dean. The College Dean will notify the Dean of the Graduate School in cases of academic dismissal. To be readmitted, the student will need to reapply for admission, meeting the admission criteria in place at the time. For information on the Automated Probation Process go to http://download.grad.usf.edu/Automated_Academic_Probation.pdf

Withdrawal

A student may withdraw from the university without grade penalty by the University deadline. Information on the different types of withdrawal (i.e., withdrawing from a single class – see the Drop section, an entire semester, or from the degree program itself) can be obtained from the Registrar's Office. Appropriate alternative calendar dates may apply. Students who withdraw may not continue to attend classes.

Transfer of Credit

All transfer credit must have grades of **B** or better and be approved by the program or college concerned. Grades from transfer credit are not calculated in the GPA. Therefore, grades on the transcript that are preceded by a **T** are subtracted from the total hours attempted before the GPA is calculated. Post-baccalaureate transfer credits from other institutions and special student credits must be evaluated and transferred by the time of formal acceptance and enrollment. The graduate program/department will be responsible for evaluating and initiating the transfer.

Transfer of Credits from USF
For transfer of credits from non-USF Regionally Accredited Institutions, refer to table on next page.

	To Certificates	To Masters	To Doctoral
Graduate Courses applied to undergraduate degrees	None	None	None
Non-degree Seeking Status	Up to one graduate course	Up to 12 graduate hours	Up to 12 graduate hours
Uncompleted Certificate	Discretion of the Program	Up to 12 graduate hours	Up to 12 graduate hours
Completed Certificate	Up to one graduate course (1 course may be applied to up to 2 certificates)	Up to 12 graduate hours	Up to 12 graduate hours
Uncompleted Master's	Discretion of the Program	Discretion of the Program	Discretion of the Program
Completed Master's Degree	Discretion of the Program	Specific course requirements in common across both degree programs may be waived with the substitution of other approved coursework at the discretion of the program.	Up to 50% of the doctoral program requirement for total course hours (excluding dissertation hours)
Uncompleted Doctoral	Discretion of the Program	Discretion of the Program	Discretion of the Program
Completed Doctoral	Discretion of the Program	Specific course requirements in common across both degree programs may be waived with the substitution of other approved coursework at the discretion of the program.	Specific course requirements in common across both degree programs may be waived with the substitution of other approved coursework at the discretion of the program.

Transfer of Credits from Non-USF Regionally Accredited* Institutions
**USF accepts credits from all regionally accredited institutions in the nation. For transfer of credits from USF, refer to table on previous page.*

	To Certificates	To Masters	To Doctoral
Graduate Courses applied to undergraduate degrees	None	None	None
Non-degree Seeking Status	Up to one graduate course	Up to 12 graduate hours	Up to 12 graduate hours
Uncompleted Certificate	Up to one graduate course	Up to 12 graduate hours	Up to 12 graduate hours
Completed Certificate	Up to one graduate course	Up to 12 graduate hours	Up to 12 graduate hours
Uncompleted Master's	Up to one graduate course	Up to 40% of the USF program	Up to 40% of the USF program
Completed Master's Degree	Up to one graduate course. Specific course requirements in common across both programs may be waived with the substitution of other coursework at the discretion of the program.	Specific course requirements in common across both degree programs may be waived with the substitution of other approved coursework at the discretion of the program.	Up to 40% of the USF doctoral program requirement for total course hours (excluding dissertation hours)
Uncompleted Doctoral	Up to one graduate course	Up to 40% of the USF program	Up to 40% of the USF doctoral program requirement for total course hours (excluding dissertation hours)
Completed Doctoral	Up to one graduate course. Specific course requirements in common across both programs may be waived with the substitution of other coursework at the discretion of the program.	Specific course requirements in common across both degree programs may be waived with the substitution of other approved coursework at the discretion of the program.	Specific course requirements in common across both degree programs may be waived with the substitution of other approved coursework at the discretion of the program.

Change of Graduate Degree Program

Students who wish to change from one degree program to another (at the same level) must obtain a Graduate Change of Program Application from the Office of the Registrar or their college advising office. The new department will consider the Change of Program request as a new application. The Deans of the Colleges involved and the Dean of the Graduate School must approve the Change of Degree. The new department may elect to accept all, some, or none of the graduate courses previously taken by the student and only those courses accepted will be computed in the GPA. Students desiring to change program levels (e.g. from a Master's program to Doctoral program) must submit a new application for admission.

Accelerated Program Guidelines

Programs who desire to offer Accelerated Degree Programs must establish guidelines that define the following. The guidelines must then be submitted and

approved by the Policy Committee of the Graduate Council

In clearly defined written policy, programs will:

- Define the number of shared credits: No more than ½ of the required graduate program credits can be completed while in undergraduate status.
- Develop a program of study in which shared coursework and the degree requirements for both degrees are clearly stated.
- Define when the student will receive the bachelor's degree: either at the completion of 120 credits earned or at the completion of the 5 year program.
- Formally admit students into accelerated 5 year programs through a defined admission process. Students should be admitted into a 5 year program at the beginning of the senior year.
- Advise students about the financial aid implications of the 5 year program and will refer students to the Office of Financial Aid for advice.
- Review the student's academic record prior to entering graduate status in the 5 year program. Students must receive a grade of B or above in graduate level courses taken while in undergraduate status.
- Permit students to formally withdraw from the 5 year program and receive the bachelor's degree, as long as the student has met the undergraduate requirements for the specified program.

Acceptance into the 5 year program is contingent upon final approval by the Dean of the Graduate School.

Dual Degree Programs

A student may wish to pursue two degrees simultaneously. Upon approval by the appropriate College Dean(s) and Dean of the Graduate School, a prescribed number of courses (generally no more than nine (9) hours of core or basic courses) required for one degree may be applied to another degree that requires the same courses, without repetition or alternative courses. Procedures for applying for a Dual degree program are available on the Graduate School website.

Off-Campus Courses and Programs

Graduate courses and programs are offered at locations other than the Tampa, Sarasota, St. Petersburg, and Lakeland campuses. Information on course enrollment procedures for off-campus courses and programs may be obtained from the college in which the courses or programs are offered.

Section 8
University Degree Requirements

Degree Requirements

The following sections describe the University requirements established by the Graduate School for the Master's, Education Specialist, and Doctoral degrees. However, individual programs and colleges may establish additional or *more stringent* requirements.

Student Responsibilities

The University of South Florida and all colleges, departments and programs therein establish certain academic requirements that must be met before a degree is granted. These requirements concern such things as curricula and courses, majors and minors, and academic residence. Faculty and graduate program directors are available to help the student understand and arrange to meet these requirements, but the student is responsible for fulfilling them.

At the end of a student's course of study, if all requirements for graduation have not been satisfied, the degree will not be granted. For this reason, it is important for students to acquaint themselves with all regulations and to remain currently informed throughout their college careers. Courses, programs, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the University and the USF Board of Trustees.

Graduate Faculty Definition

The University of South Florida defines its graduate faculty to consist of all regular faculty appointed at the Assistant, Associate, or Professor rank, who hold a terminal degree or equivalent in their discipline. Individual academic units have the discretion to establish additional requirements.

Graduate Study Requirements

See USF Regulation 6C4-3.011, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Master's Degree Requirements

Minimum Hours
A minimum of thirty (30) hours is required for a master's degree, at least sixteen (16) hours of which must be at the 6000 level. At least twenty (20) hours must be in formal, regularly scheduled course work, ten (10) of which must be at the 6000 level.

Up to six (6) hours of 4000-level courses may be taken as part of a planned degree program. Additional graduate credit may be earned in 4000-level courses only if specifically approved by the appropriate College Dean. Students enrolled in undergraduate courses as part of a planned degree program are expected to demonstrate a superior level of performance. Graduate students may not enroll for more than 18 hours in any semester without written permission from the College Dean.

Time Limitations
All requirements for master's degrees must be completed within five (5) calendar years from the student's date of admission for graduate study. Master degrees (including dual degree programs) that require course work in excess of 50 credit hours may be granted a longer statute of limitations by the University Graduate Council.

In the event that a student nears the end of the time limitation as specified above, but the student needs more time to complete the degree, the student may submit a request for an extension using the *Time Limit Extension Request Form,* available on the Graduate School website http://www.grad.usf.edu/newsite/forms/grad_forms.asp Requests must include the reasons for the delay in completion, the anticipated time needed for completion, and endorsements from the graduate faculty advisor, graduate program, and College Dean or designee, prior to submission to the Graduate School for approval. Students who exceed the time

limitations may have their registration placed on hold until a request for extension has been approved.
Students who are temporarily unable to continue the program should submit a Leave of Absence Request, which extends the time limit for the duration of the approved Leave (see the section on *Leave of Absence* in the *Enrollment Requirements* section.)

Enrollment Requirements
Refer to the Academic Policies Section

Major Professor
A major professor will be appointed as soon as possible but no later than the time the student has completed 50% of the program. The student and major professor should plan a program of study which, when completed, will satisfy the degree requirements specified. A copy of this program, signed by the student and professor, must be maintained in the student's department file. Major Professors must meet the following requirement:

- be regular graduate faculty, as defined by the University.

Faculty who do not meet this definition may serve as Co-Major Professor with faculty who do.

In the event a Major Professor leaves the University (i.e. for an appointment at another university, due to retirement, etc.) and the Major Professor is willing to continue serving on the student's committee, the Major Professor then becomes a Co-Major Professor on the committee and another faculty is appointed as the other Co-Major Professor. It is important that one of the Co-Major Professors be accessible on the university campus for the student to make satisfactory progress on the thesis/dissertation.

In the event a Major Professor is on temporary leave (e.g. sabbatical, research, etc.), the Major Professor shall coordinate with the Program Director to facilitate the needs of the student.

In some instances a student may choose to have two professors serve as Major Professor. In this situation the faculty are approved as "Co-Major Professors" and jointly serve in that role. Consequently both faculty must sign approval on paperwork pertaining to the student's processing (i.e. committee form, change of committee form, etc.)

(Co-) Major Professor(s) of the Graduate Student Supervisory Committee Responsibilities
Available on the Graduate School Website: http://www.grad.usf.edu/newsite/policies.asp

Thesis Committee
Students working toward a thesis degree will have the benefit of a committee of members of the graduate faculty. The committee will approve the course of study for the student and plan for research, supervise the research and any comprehensive qualifying exams, and read and approve the thesis for content and format.

Composition

The committee will consist of the major professor and at least two other members or co-major professors and at least one other member of the department or area of interest in which the degree is sought. (Colleges and Programs may require additional committee members and specify characteristics.)

Member Definition

All graduate faculty, as defined by the university and the college/department, and approved by their department and college, are assumed by Graduate School as qualified to be a member of and/or supervise a Masters Thesis committee. Persons desiring to serve on a Masters committee who are not defined as Graduate Faculty (i.e. visiting faculty, professionals, etc.) by the university and the college/department must submit a curriculum vitae and be approved by the department, college, and Graduate School for each committee.

Approval

Once a committee has been determined, a Supervisory Committee Form needs to be completed by the student and submitted to the Committee Members for original signatures. Check with the College for instructions and forms. The original appointment form and two (2) copies should be submitted to the College Associate Dean's office for approval. A copy of the approved form should be kept in the student's file.

An approved and current Committee Form must be on file in the program/college before graduation may be certified. Committee forms need to be processed as early in the program as possible, but no later than the semester prior to graduation. (Colleges and

departments may institute additional requirements for membership on Supervisory Committees.)

Changes to Committee

Changes to a Supervisory Committee must be submitted on a Change of Committee Form. Check with the College for instructions and forms. Original signatures of faculty being added to the Committee, along with the approval signature of the (Co-) Major Professor(s), must be on the form. Faxed signatures are acceptable.

Faculty who are removed from the Committee are not required to sign the form, provided that the (Co-) Major Professor(s) has signed. In such instances the signature of the (Co-)Major Professor(s) indicate(s) approval of the change, as well as acknowledgement and approval of the change by the removed member. Any non-faculty being added to a committee must submit a Curriculum Vitae (CV) for college approval. Change of Committee Forms should be submitted for approval as soon as the change takes place. Changes to a Committee are official only once approved and filed by the program and college.

Masters Comprehensive Examination

Prior to clearance for the degree, candidates must perform satisfactorily on a comprehensive examination or an alternative method designated by the academic unit to measure student competency in the major area. Students must be enrolled for a minimum of two (2) hours of graduate credit during the semester when the comprehensive examination is taken. If the exam is taken between semesters, the student must be enrolled for a minimum of two (2) hours of graduate credit in the semester before or following the exam.

Thesis

If a thesis is required, it must conform to the guidelines of the University. Refer to the Thesis and Dissertation Guidelines, available on the web at http://www.grad.usf.edu/newsite/thesis.asp for complete information about requirements, procedures, and deadlines. *For enrollment requirements, refer to the Academic Policies section in the Catalog.*

Format

The Thesis must conform to a traditional format[6] inclusive of:

Part I: Preliminary Pages
- Title Page
- Note to Reader (if applicable)
- Dedication (optional page)
- Acknowledgments (optional page)
- Table of Contents
- List of Tables (if applicable)
- List of Figures (if applicable)
- Abstract

Part II: Text (divided by chapter or section headings)

Part III: References / Bibliography[7]
- Appendices Title Page
- Appendix Sections (if applicable)

Part IV: About the Author (required for dissertations)

Directed Research

Directed Research hours may satisfy up to 50% of the thesis hour requirement.

Manuscript Processing Fee

Students participating in the thesis/dissertation process are required to pay a processing fee. If the student fails to complete the process within the semester, they are required to go through the process again and subsequently pay the Manuscript Processing Fee again. More information is available on the Thesis and Dissertation website. See USF Regulation USF4-0107, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Exchange of Thesis for Non-Thesis Credit

If a student changes from thesis to non-thesis during a semester and is currently enrolled in thesis credit, the current thesis credits may be exchanged without academic penalty if a Graduate School Petition is

[6] Deviations from the traditional format are acceptable if approved in advance by the Supervisory Committee and Graduate School

[7] Include either References or a Bibliography, as specified by your style guide

filed with the Graduate School no later than the last day to withdraw without Academic Penalty.

If a student enrolled in a thesis required program has taken thesis credits but elects to change to non-thesis track or program, the accumulated thesis credits may not be exchanged or converted to another non-structured credit. The thesis hours will remain on the transcript and will retain the "Z" grade.

Thesis Defense

Policies and procedures for the thesis defense are handled within the College and Program. Contact the College and Program for requirements.

Thesis Final Submission Guidelines

Information on requirements for submission of the finished and approved manuscript copies is available online at the Thesis and Dissertation website http://www.grad.usf.edu/newsite/thesis.asp Students who fail to submit the final copy of a thesis by the posted submission deadline will be considered for graduation in the following semester and must therefore apply for graduation by the posted deadline, enroll in a minimum of two (2) thesis hours for that subsequent semester, submit their manuscript for processing again, and pay the manuscript processing fee again. Only after the Graduate School has approved the manuscript can the student be certified for the degree.

Mandatory Electronic Submission

Students are required to submit the thesis in an electronic format (ETD). Requirements and procedures are available at the Graduate School website http://www.grad.usf.edu/newsite/thesis.asp

Changes after Publication

Once a thesis is approved and accepted by the Graduate School for publication, it cannot be changed.

Release of Thesis Publications

The University recognizes the benefits from collaboration with sponsors on research projects but also recognizes the possibility of conflicts of interest in the disclosure of the results of the collaborations. While the sponsor's economic interests in the restriction of disclosure should be considered, the University has a primary mission to extend knowledge and disseminate it to the public and the broader academic community.

The University's "Statement of Policy Regarding Inventions and Works" acknowledges the possible need for delays in publication of sponsored research to protect the sponsor's interests, but it provides no definite guidelines for the restrictions of publication beyond the statement: "Disclosure delays mutually acceptable to the Inventor, the Vice President for Research, and the sponsor, if any, are authorized in order to allow patent applications to be filled prior to publication, thereby preserving patent rights..."[8]

To protect the University's primary goal from un-due compromise, the University has adopted the following guidelines:

1. The recommendations of sponsors, regarding publication of research results should be considered advisory rather than mandatory.

2. In support of academic discourse and the mission to promote and share academic works, Theses will be released for worldwide access once submitted to and approved by the USF Graduate School. In the event that a patent or copyright application provides reason to delay the release of the Thesis, a petition to request a one year delay may be submitted to the Graduate School for consideration. Such requests must be received by the format check of the thesis.

3. Students should not be delayed in the final defense of their theses by agreements involving publication delays.

Duty to Disclose New Inventions and Works

The complete policy regarding Duty to Disclose New Inventions and Works may be viewed at: http://www.research.usf.edu/pl/0_300_INVENTIONS_WORKS.pdf

For information about this policy contact the Division of Patents and Licensing at (813) 974-0994. Also see

[8] April Burke, "University Policies on Conflict of Interest and Delay of Publications," Report of the Clearinghouse on University-Industry Relations, Association of American Universities, February, 1985.

USF Regulation 6C4-10.012,
http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Thesis Change of Grade

In the semester in which the final manuscript has been received, reviewed, and certified for permanent filing in the University Library, the Graduate School submits the change of grade from "Z" to "S" for the last registration of thesis courses to the office of the registrar when all grades are due at the end of the semester.

Education Specialist Degree (Ed.S.) Requirements

Ed.S. Thesis
Students who are required to submit an Ed.S. Thesis must meet all of the requirements for the thesis, as specified in the Master's Degree section of this publication. For specific degree program information, refer to the College of Education.

Ed.S. Project
Students who are required to submit an Ed.S. Non-Thesis project must meet all of the requirements as specified by the College of Education. A project does not need to meet the requirements of a thesis and is not submitted to the Graduate School for approval and archiving.

Doctoral Degree (Au.D., Ed.D., Ph.D., D.P.T.) Requirements

The doctoral degree is granted in recognition of high attainment in a specific field of knowledge. It is a research degree and is not conferred solely upon the earning of credit, the completion of courses, or the acquiring of a number of terms of residency, but also the successful completion of scholarly work. The length of residency and the requirements below are minimums; programs/colleges may elect to establish more rigorous requirements.

The degree will be granted after the student has shown proficiency and distinctive achievement in a specified field, has demonstrated the ability to do original, independent investigation, and has presented these findings with a high degree of literary skill in a dissertation.

A major professor will be appointed as soon as possible but no later than the time the student has completed 50% of the program. The advisor will advise on any specific subject matter deficiencies and assist in the choice of a major professor and area of research

Minimum Hours
Because the doctoral degree is earned on the basis of advancement to doctoral candidacy status and satisfactory completion of the dissertation, the Graduate School does not specify any minimum number of courses or credit hours that must be completed for award of the degree. Students must comply with general enrollment requirements and also academic residency requirements.

Time Limitations
All requirements for doctoral degrees must be completed within eight (8) calendar years from the student's date of admission for doctoral study.

Students have four (4) years from the date of admission to complete all required coursework, pass the qualifying examination, and be admitted to doctoral candidacy. Students then have four (4) years from the date of doctoral candidacy to complete degree requirements.

In the event that a student nears the end of the time limitation as specified above, but the student needs more time to complete the degree, the student may submit a request for an extension using the *Time Limit Extension Request Form*, available on the Graduate School website http://www.grad.usf.edu/newsite/forms/grad_forms.asp Requests must include the reasons for the delay in completion, the anticipated time needed for completion, and endorsements from the graduate faculty advisor, graduate program, and College Dean or designee, prior to submission to the Graduate School for approval. Students who exceed the time limitations may have their registration placed on hold until a request for extension has been approved.

Students who are temporarily unable to continue the program should submit a Leave of Absence Request, which extends the time limit for the duration of the approved Leave (see Leave of Absence in the Enrollment Requirements section for information; the *Leave of Absence Request Form* is available online at: http://www.grad.usf.edu/newsite/forms/grad_forms.asp)

Enrollment Requirements
See Academic Policies Section

Academic Residency
Students must be enrolled in a doctoral program for a minimum of three (3) years beyond the baccalaureate degree. At least 25% of the total hours required for the degree must be completed on a USF campus. Deviations from this rule must be recommended by the student's doctoral committee and approved by the College Dean and the Dean of the Graduate School.

Major Professor
A major professor will be appointed as soon as possible but no later than the time the student has completed 50% of the program. The student and Major Professor should plan a program of study which, when completed, will satisfy the degree requirements specified. A copy of this program, signed by the student and professor, should be maintained in the student's department file.

Major Professors must meet the following requirements:

- be active in scholarly pursuits as evidenced by at least one referred publication in the last three years.
- be regular graduate faculty, as defined by the University. Faculty who do not meet this definition may serve as Co-Major Professor with faculty who do.

In the event a Major Professor leaves the University (i.e. for an appointment at another university, due to

retirement, etc.) and the Major Professor is willing to continue serving on the student's committee, the Major Professor then becomes a Co-Major Professor on the committee and another faculty is appointed as the other Co-Major Professor. It is important that one of the Co-Major Professors be accessible on the university campus for the student to make satisfactory progress on the thesis/dissertation.

In the event a Major Professor is on temporary leave (e.g. sabbatical, research, etc.), the Major Professor shall coordinate with the Program Director to facilitate the needs of the student.

In some instances a student may choose to have two professors serve as Major Professor. In this situation the faculty are approved as "Co-Major Professors" and jointly serve in that role. Consequently both faculty must sign approval on paperwork pertaining to the student's processing (i.e. committee form, change of committee form, admission to candidacy, etc.)

(Co-) Major Professor(s) of the Graduate Student Supervisory Committee Responsibilities
Available on the Graduate School Website:
http://www.grad.usf.edu/newsite/policies.asp

Doctoral Committee
As soon as an area of research is determined and a major professor is selected, a Doctoral Supervisory Committee will be appointed and approved for the student. The department will request approval of the Doctoral Committee from the Dean of the College and, as needed, the Dean of the Graduate School.

The Doctoral Committee will approve the student's course of study and plan for research, supervise the research, grade the written comprehensive qualifying examination, read and approve the dissertation, and conduct the dissertation defense.

Composition

The Doctoral Committee will consist of at least four members, three of whom must come from the academic area in which the major work for the degree will be done.

Member Definition

All graduate faculty as defined by the university and the college/department and approved by their department and college are assumed by Graduate School as qualified to be a member of a Doctoral Committee. Persons desiring to serve on a Doctoral committee who are not defined as Graduate Faculty (e.g., visiting faculty, professionals, etc.) by the university and the college/department must submit a curriculum vitae and be approved by the Department, College, and, as needed, Graduate School for each committee.

Approval

Once a committee has been determined, a Supervisory Committee Form needs to be completed by the student and submitted to the Committee Members for original signature. Check with the College for instructions and forms.

To insure uniformity of excellence across the colleges, (Co-)Major Professor(s) of Ph.D. Dissertation Committees will need to submit a current curriculum vitae (equivalent to an NIH Bio, approximately two pages long with the last three [3] years of scholarly activity included) with the committee appointment form to the College Dean or designee. This approval is in addition to the approval from their department chairperson. (Colleges and departments may institute additional requirements for membership on Supervisory Committees.)

Once approved, the original form and the approved Curriculum Vitae (CV) are placed in the student's file.

An approved and current Committee Form must be on file in the program/college before graduation may be certified. Committee forms need to be processed as early in the program as possible, but no later than the semester prior to graduation.

Changes to Committee

Changes to a Supervisory Committee must be submitted on a Change of Committee Form. Check with the College for instructions and forms. Original signatures of faculty being added to the Committee, along with the approval signature of the (Co-) Major Professor(s), must be on the form. Faxed signatures are acceptable. Faculty who are removed from the Committee are not required to sign the form, provided that the (Co-) Major Professor(s) has signed. In such instances the signature of the (Co-) Major Professor(s) indicate(s) approval of the change, as well as acknowledgement and approval of the change by the removed member.

Any non-faculty being added to a committee must submit a CV for approval. If a faculty member is

being added as a Co-Major Professor, or if there is an appointment change to the Major Professor position, a CV must be included for the faculty member who is being added to that position. Change of Committee Forms should be submitted for approval as soon as the change takes place. Changes to a Committee are official only once approved and filed by the program and college. An approved and current Committee Form must be on file before graduation may be certified.

Doctoral Comprehensive Qualifying Examination

As soon as the substantial majority of the course work is completed, the student must pass a written comprehensive qualifying examination covering the subject matter in the major and related fields. This examination may be supplemented by an oral examination. Students must be enrolled for a minimum of two (2) hours of graduate credit in their discipline at the time they take the comprehensive examinations. If the exam is taken between semesters, students must be enrolled for a minimum of two (2) hours of graduate credit in the semester before or following the exam.

Admission to Candidacy

Students may not be admitted to candidacy until a Doctoral Committee has been appointed, and the Committee has certified that the student has successfully completed the comprehensive qualifying examination and demonstrated the qualifications necessary to successfully complete requirements for the degree. The Admission to Candidacy form should be submitted for approval no later than the semester following the successful completion of the exam. The form will be approved by the Dean of the College and forwarded to the Dean of the Graduate School for final approval. Doctoral Candidacy is effective as of the day that the Graduate School approves of the request and changes the student's status.

As long as the Candidacy request is received between the first and last day of class during the fall and spring semesters or between the first day of class and one week before the last day of class in Session B during the summer semester, and the Candidacy is cleared for approval, the Candidacy will be effective as of that semester. Students must have an overall and degree program Grade Point Average (GPA) of 3.00 at the time of candidacy for candidacy to be approved. Candidacy will not be approved if there are any "I" (Incomplete) or "M" (Missing) grades on the transcript. All "I" and "M" grades, including "IF" and "MF", must be cleared before candidacy may be finalized.

Once candidacy status is approved, the student may then enroll in dissertation hours the following semester. Students may NOT enroll in dissertation hours prior to being admitted to doctoral candidacy. Each degree program has a required number of dissertation hours for completion of the degree. Departments may, with College approval, apply Directed Research hours toward the total number of dissertation hours required. Directed Research hours shall not exceed 50% of the dissertation hour requirement. No directed research hours will be converted to dissertation hours (i.e. a directed research course dropped and a dissertation course added) prior to or during the semester of Candidacy. *For more information refer to Enrollment Requirements in the Academic Policies section.*

Dissertation

Dissertation requirements are for the academic degrees of Ph.D. and Ed.D. For the professional degrees of Au.D. and D.P.T., contact the professional school for doctoral project requirements. The Dissertation must conform to the guidelines of the University. Refer to the Thesis and Dissertation Guidelines, available on the web at http://www.grad.usf.edu/newsite/thesis.asp for information about requirements, procedures, and deadlines. For enrollment requirements, refer to the Academic Policies section in the Catalog.

Format

The Dissertation must conform to a traditional format[9] inclusive of:

Part I: Preliminary Pages
- Title Page
- Note to Reader (if applicable)
- Dedication (optional page)
- Acknowledgments (optional page)
- Table of Contents
- List of Tables (if applicable)
- List of Figures (if applicable)
- Abstract

Part II: Text (divided by chapter or section headings)

Part III: References / Bibliography[10]
- Appendices Title Page
- Appendix Sections (if applicable)

[9] Deviations from the traditional format are acceptable if approved in advance by the Supervisory Committee and Graduate School

[10] Include either References or a Bibliography, as specified by your style guide

Part IV: About the Author (required for dissertations)

Directed Research

Directed Research hours may satisfy up to 50% of the dissertation hour requirement.

Manuscript Processing Fee

Students participating in the thesis/dissertation process are required to pay a processing fee. If the student fails to complete the process within the semester, they are required to go through the process again and subsequently pay the manuscript processing fee again. More information is available on the Thesis and Dissertation website http://www.grad.usf.edu/newsite/thesis.asp.
Also, see USF Regulation USF4-0107, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Dissertation Defense

After the Doctoral Committee has determined that the final draft of the dissertation is suitable for presentation; the Committee will request the scheduling and announcement of the Dissertation Defense (also called Final Oral Examination or Oral Defense.) Check with the College and program for college and program specific procedures for this process. A copy of the announcement should be sent to the Graduate School, preferably two weeks in advance of the defense date. The announcement must also be posted in a public forum for a minimum of twenty-four hours to comply with statute requirements for a public meeting. A student must successfully defend the dissertation in order to be able to proceed and complete the final submission process.

Outside Chair of the Dissertation Defense

The Dissertation Defense (or Final Oral Examination) shall be presided by a senior and distinguished scholar from outside the department, nominated by the Major Professor. If the chair is from another institution, this individual should have the equivalent qualifications necessary to chair a dissertation in the subject area at the University of South Florida. Note that the Major Professor may not serve as the "Outside Chair."

Procedures for Conducting the Oral Defense

1. The oral defense should be conducted to allow for the student to make any necessary corrections following the defense and still meet the final copy deadline for turning in the dissertation to the Office of Graduate School.

2. It is required that all members of the Dissertation Committee be present for the examination unless an absence is approved prior to the defense taking place by the Graduate School Dean. In the event that a member cannot attend in person, participation is permissible via speakerphone or video conference. A minimum of three members, including the Major Professor is required to proceed with the defense. The Outside Chair is not considered as part of the Committee.

3. The presentation should be considered an important function in the department and all graduate students and faculty be encouraged to attend.

4. The presentation and defense are open to the public and as such, must meet the requirements of the Sunshine Laws for the State of Florida. The voting is not public.

5. The room selected for the examination should have adequate seating with an alternate room selected in case of problems.

6. The Outside Chair should open the proceedings by introducing the candidate and the Dissertation Committee.

7. The examination should begin with a presentation by the candidate designed to summarize the dissertation.

8. The remainder of the examination may take place in a different setting and will consist of questions about the research by the Outside Chair and the Dissertation Committee and by other interested persons. It is suggested that questioning should be limited to about 15 minutes for each person with subsequent rounds of questioning as necessary.

9. Questions from the faculty-at-large and/or the public may be allowed at the end of the committee's questioning.

10. The length of the examination period will generally not exceed three hours. Throughout this time the Outside Chair is to be in charge of all proceedings and, ideally, is expected to play a balancing role between advocacy and contention. The Outside Chair, at anytime during the course of the examination, may request all visitors to leave.

11. Following the completion of these proceedings, the Outside Chair will ask all visitors and the candidate to leave and will re-convene the Dissertation Committee only. The Outside Chair may share his/her impressions and opinions of the candidate and the dissertation. The Outside Chair will preside over the deliberations and voting of the committee, but is not to participate in the voting. The voting is to be limited to "pass" and "fail" votes. The Outside Chair has the responsibility of tallying the votes and of informing the candidate of the final decision. ***The vote of the Dissertation Committee must be unanimous and recorded on the Successful Defense form***. The College Graduate Dean will resolve substitutions and disagreements within the committee.

12. The Outside chair will convey the decision of the Dissertation Committee (Successful Defense form) to the Department/College Graduate office to be kept in the student's file.

Suggested Guide for Dissertation Defense Proceedings

1. Introduction of Candidate and Committee Members.
2. Presentation by Candidate.
3. Questions by Committee Members.
4. Questions from other faculty and/or other observers.
5. Candidate and observers leave the examination room.
6. Deliberation and voting by the committee, only. Sign documentation (to be determined by College/Department) if defense is successful.
7. The candidate shall be informed of the vote.
8. The record of the successful defense (to be determined by the College or Department) is forwarded to the College/Department for the student's file.

Dissertation Final Submission Guidelines

Information on requirements for submission of the finished and approved manuscript copies is available online at the Thesis and Dissertation website http://www.grad.usf.edu/newsite/thesis.asp . Students who fail to submit the final copy of a dissertation by the posted submission deadline will not be considered for graduation. The student may be considered for graduation in the following semester and must therefore apply for the degree (graduation) by the posted deadline, enroll in a minimum of two (2) dissertation hours for that subsequent semester, submit their manuscript for processing again, and pay the manuscript processing fee again. Only after the Graduate School has approved the manuscript can the student be certified for the degree.

Mandatory Electronic Submission

Students are required to submit the dissertation in an electronic format (ETD). Requirements and procedures are available at the Graduate School website http://www.grad.usf.edu/newsite/thesis.asp

Changes after Publication

Once a dissertation is approved and accepted by the Graduate School for publication, it cannot be changed.

Release of Dissertation Publications

The University recognizes the benefits from collaboration with sponsors on research projects but also recognizes the possibility of conflicts of interest in the disclosure of the results of the collaborations. While the sponsor's economic interests in the restriction of disclosure should be considered, the University has a primary mission to extend knowledge and disseminate it to the public and the broader academic community.

The University's "Statement of Policy Regarding Inventions and Works" acknowledges the possible need for delays in publication of sponsored research to protect the sponsor's interests, but it provides no definite guidelines for the restrictions of publication beyond the statement: "Disclosure delays mutually acceptable to the Inventor, the Vice President for Research, and the sponsor, if any, are authorized in

order to allow patent applications to be filled prior to publication, thereby preserving patent rights..."[11]

To protect the University's primary goal from undue compromise, the University has adopted the following guidelines:

1. The recommendations of sponsors, regarding publication of research results should be considered advisory rather than mandatory.

2. In support of academic discourse and the mission to promote and share academic works, Dissertations will be released for worldwide access once submitted to and approved by the USF Graduate School. In the event that a patent or copyright application provides reason to delay the release of the Dissertation, a petition to request a one year delay may be submitted to the Graduate School for consideration. Such requests must be received by the format check of the dissertation.

3. Students should not be delayed in the final defense of their dissertations by agreements involving publication delays.

Duty to Disclose New Inventions and Works

The complete policy regarding Duty to Disclose New Inventions and Works may be viewed at: http://www.research.usf.edu/pl/0_300_INVENTIONS_WORKS.pdf

For information about this policy contact the Division of Patents and Licensing at (813) 974-0994. Also see USF Regulation 6C4-10.012, http://usfweb2.usf.edu/usfgc/ogc%20web/currentreg.htm

Dissertation Change of Grade

In the semester in which the final manuscript has been received, reviewed, and certified for permanent filing in the University Library, the Graduate School submits the change of grade from "Z" to "S" for the last registration of dissertation courses to the office of the registrar when all grades are due at the end of the semester.

The Use of "Ph.D." in Credentials and Publication

Students may only use the credential of "Ph.D." after degree conferral is granted. It is inappropriate to use the credential until it is officially and formally granted.

The use of the abbreviation "Ph.D." in university publications, correspondence, etc., including websites and other electronic media, shall be upper case "P", lower case "h" followed by a period, an upper case "D" and another period. It shall not be used in the format of all upper case letters without periods, as in "PHD"

[11] April Burke, "University Policies on Conflict of Interest and Delay of Publications," Report of the Clearinghouse on University-Industry Relations, Association of American Universities, February, 1985.

Section 9
Graduation Information

Application for Degree (Graduation)

To graduate, a student must submit the Application for Degree to the Office of the Registrar. This application must be submitted in the term of expected graduation by the deadline noted in the academic calendar. If a student applies for graduation and is not approved, a new Application for Degree must be submitted by the deadline in a new term. In order for the degree statement to appear on a student's academic record, the student must file the aforementioned application whether or not participation in the commencement ceremony is desired.

The application for a graduate degree is available from the Office of the Registrar (http://www.registrar.usf.edu/search.php) or the student's college advising office. The application must first be certified (signed or stamped in the section, "Office Use Only") by the student's college. The college retains one copy, and the student must submit the remaining copies to the Office of the Registrar prior to the graduation application deadline. Inquiries concerning approval or denial of graduation should be made to the appropriate college.

It is the student's responsibility to clear all "I" (Incomplete) and "M" (Missing) grades in all courses and to provide official transcripts of all transferred course work needed for graduation at least three weeks prior to the end of the term in which he/she expects to graduate.

Graduation Requirements

It is the student's responsibility to make sure that he/she has met all degree requirements as specified in the Degree Requirements section of this publication, as well as any College and Program requirements for the degree.

Commencement

Graduate students **may not** participate in commencement exercises **until all requirements** for the degree sought have been fulfilled. Students graduating from programs based from the Tampa campus (despite location, i.e. may be located in St. Petersburg, Sarasota, Lakeland, etc., such as students in Marine Science) participate in commencement exercises on the Tampa campus. All doctoral graduates receive degree conferral from the Tampa campus and therefore participate in commencement exercises in Tampa.

Diplomas

Diplomas are mailed to the student's permanent address approximately six (6) weeks after commencement. Students with a change of address need to fill out a change of address form at the Registrar's office. Questions regarding diplomas and degree certification should be directed to the Registrar's office at 974-2000.

Letters of Certification

Students in need of verification of the degree prior to receiving their diploma may request a Letter of Certification. This letter specifies that the student has finished all of the requirements for the degree and the date the degree will be conferred on. The letter must include the student's social security number, name of degree program and official name of the degree. The Major Professor, the College Dean (or designee), the Coordinator (or designee) in the Graduate School, and the Registrar must sign the Letter of Certification. A template for the Certification Letter is available on the Graduate School website at http://www.grad.usf.edu/newsite/forms/grad_forms.asp .

Posthumous Degrees or Degrees in Memoriam

The University may award a posthumous master's or doctoral (and medical) degree to a student who was in good standing at the University at the time of his or her death and who had completed all substantive requirements for the degree. The University may also award masters, doctoral and medical degrees in memoriam to a student who was in good standing at the University at the time of his or her death.

To award a non-thesis degree, the student would need to have completed all courses required for the degree. Courses required for the degree, in which the student is enrolled at the time of his or her death, must have been completed to the satisfaction of the faculty so that passing grades might be posted. All other requirements (e.g., grade point average, tests, etc.) must have been satisfied as well.

To award a thesis degree, all courses must be completed as described above and the thesis must be sufficiently complete to the satisfaction of the faculty so that certification of completion may be posted to the student's record.

Procedures for Award of Posthumous Degrees or Degrees in Memoriam

The Chairperson of a Department, on his or her own initiative or upon the request of the family of the student, may recommend a posthumous degree, or a degree in memoriam, by forwarding the recommendation to the respective dean of the college. If approved by the Dean, the recommendation with supporting documentation will be forwarded to the Provost for approval. If the Provost approves the recommendation, the Office of the Registrar will be notified and the degree will be awarded at the next commencement ceremony or will be presented to the student's family in an appropriate setting.

Diplomas for posthumous degrees will be identical to other degrees awarded in the same colleges and majors. Diplomas for Degrees in Memoriam will be prepared to read "Master of Arts in Memoriam, Master of Science in Memoriam," "Doctor of Philosophy in Memoriam," etc., depending upon the degree the student was pursuing at the time of his or her death.

Transcripts

Transcripts of a student's USF academic record may be requested by the student through the Office of the Registrar. A student's academic record can only be released upon authorization of the student. Students requesting transcripts may do so in person or by writing to the Office of the Registrar. By law, the request must include the student's signature and date. For transcripts to be issued, the student must have no financial obligations to the University. Procedures for requesting a transcript are available on the Office of the Registrar's website at http://www.registrar.usf.edu/. Degree statements are posted approximately five weeks after the graduation ceremony. Current term grades are posted approximately one week after the final exams end. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades.

Section 10
Degrees and Concentrations

For the current list of authorized degree programs and concentrations, Accelerated Degree Programs, and Dual Degree Programs, go to www.grad.usf.edu

As of the date of this publication, the University is authorized to offer:

131	Master's programs
2	Education Specialist programs
39	Doctoral programs (including the Ed.D., Au.D., D.N.P., M.D. and D.P.T.)
16	Accelerated programs (see table below)
9	Formalized Dual Degree programs (see table below)
234	Concentrations at the master's level
16	Concentrations at the specialist level
107	Concentrations at the doctoral level

New graduate programs and concentrations are constantly under development and may now be approved and available. Check the website for recently approved programs and for information on which programs are currently accepting applications and which are currently closed for admission.

How to understand Degrees, versus Programs, versus Concentrations.
The University offers a number of degrees (e.g. M.A., M.S.E.S., Ph.D., etc.) under which various programs (a.k.a. majors) are offered – for example *Biology*. Concentrations are formalized areas of study available within the program – for example *Conservation Biology*.

Some programs are offered as the area of study presented. Other programs are offered through a variety of concentrations within the program. The degree is awarded in the program, e.g. M.S. in Nursing. Currently the diploma lists only the degree (Master of Science). However, program and concentration designations are both noted on the transcript. USF offers over 350 Concentrations within the 170+ Programs that are authorized. For example:

Adult Education (Curriculum and Instruction)	M.Ed.	Education

Would translate to: M.Ed. in Curriculum and Instruction with a Concentration in Adult Education

M.Ed.	= the name of the degree - "Master of Education"
Curriculum and Instruction	= the name of the program of study the degree is awarded in.
Adult Education	= the name of the concentration within the program.

To learn more about the program or concentration, refer to the corresponding college section of the catalog. Depending on the college, the information may be listed under the concentration name (as is the case for the College of Education) or the program name (as is the case for the College of Arts and Sciences).

Questions about degrees and concentrations may be directed to the Graduate School.

Accelerated Degree Programs

The following lists some of the Accelerated Programs offered through U.S.F. New accelerated programs may have been approved since the publication of this list, others may now be inactive. For a current list, refer to: www.grad.usf.edu or contact the program of interest.

Program College(s)	Name of Program (Major) or Concentration (Specialization)	Degree	Program	Comments about the program
School of Architecture and Community Design	Architecture	M.Arc.	5 Year Program	2 plus 3 accelerated to the M.Arc. degree
Arts and Sciences	Addictions and Substance Abuse Counseling (Rehabilitation and Mental Health Counseling)	M.A.	5 Year Program Concentration	3 plus 2 accelerates to the MA
Arts and Sciences	Chemistry	BA/MA	5 Year Program	3 plus 2 – awards simultaneous degrees
Arts and Sciences	Marriage and Family Therapy (Rehabilitation and Mental Health Counseling)	M.A.	5 Year Program Concentration	3 plus 2 accelerates to the MA
Arts and Sciences	Mathematics	BA/MA	5 Year Program	3 plus 2 – awards simultaneous degrees
Arts and Sciences	Rehabilitation and Mental Health Counseling	M.A.	5 Year Program	3 plus 2 accelerates to the MA
Arts and Sciences	Speech - Pathology	M.S.	5 Year Program –	3 plus 2 accelerates to the MS - Inactivated
Arts and Sciences and Business Administration	Arts and Sciences and Business	BA or BS/MBA	5 Year Program	3 plus 2 may be mapped to most UG departments in AS and awards a BA or BS & MBA simultaneously
Business and Honors College	Business and Honors College	B.A./ M.B.A.	5 Year Program	
Education	Special Education, Varying Exceptionalities	BS/MA	5 Year Program	3 plus 2 – awards simultaneous degrees
Engineering	Engineering	M.E., M.S.	5 Year Program	3 plus 2 may be mapped to any Engineering department and awards the bachelor & master simultaneously

Accelerated Programs Continued

Program College(s)	Name of Program (Major) or Concentration (Specialization)	Degree	Program	Comments about the program
Medicine and Honors College	Medicine / Honors	BA/M.D.	7 Year Program	Medicine has an accelerated program agreement with the Honors College. The BA is awarded after the 4th year then the student accelerates to the 2nd year as a medical student.
Medicine and Honors College	School of Physical Therapy and Honors College	B.A./ D.P.T.	6 Year Program	
Nursing	Nursing	BS/MS	5 Year Program	UG with an AS in nursing progressing toward the MS in nursing - BS/MS simultaneous degrees
Nursing	Nursing Education (Nursing)	M.S.	5 Year Program Concentration	
Public Health	Public Health	MPH/ MSP	5 Year Program	Concentrations in Public Health Education admits UG students at 90 hours, PHC, and accelerates to the master degree

Dual Degree Programs

The following lists some of the formalized Dual Degree Programs offered through the University of South Florida. New Dual Degree programs may have been approved since the publication of this list, others may now be inactive. For a current list, refer to: www.grad.usf.edu or contact the program of interest to see if your program qualifies for a Dual Degree option.

Program College(s)	Name of Dual Degree Programs	Dual/Joint Program	Degree
Arts and Sciences Public Health	Anthropology and Public Health	Dual Degree	M.A./M.P.H.
Arts and Sciences Engineering	Engineering Science and Physics	Joint Degree	M.A.
Arts and Sciences Engineering	Engineering Science and Physics	Joint Degree	Ph.D.
Public Health	Epidemiology and Biostatistics	Dual Concentration	
Arts and Sciences Engineering	Physics and Engineering Science	Joint Degree	Ph.D.
Arts and Sciences Education	Religious Studies and Education -	Dual Degree	M.A.
Arts and Sciences Public Health	Anthropology and Public Health	Dual Degree	Ph.D./M.P.H.
Arts and Sciences Public Health	Maternal and Child Health and Clinical Social Work	Dual Degree	MPH / MSW

Section 11
Graduate Certificates

Office of Graduate Certificates

University of South Florida
4202 E. Fowler Ave., SVC 1072
Tampa, FL 33620-8470

Web address: http://www.outreach.usf.edu/gradcerts/
Email address: gradcerts@admin.usf.edu
Phone: 813-974-2442
Fax: 813-974-7061

Director: Lagretta Lenker
Office Manager: Stephanie Shreve
Program Asst: Allison Kibler

Certificates Offered

Following is an alphabetical list of Graduate Certificates offered at USF. Some certificates may be currently inactive and new certificates may now be available. For information about Graduate Certificates currently offered and certificate requirements, go to the Graduate Certificate website at: http://www.outreach.usf.edu/gradcerts/

Addictions and Substance Abuse
Africana Studies
Aging and Neuroscience
Behavior Health Counseling*
Biochemistry and Molecular Biology
Bioinformatics
Biostatistics
Biotechnology
Cardiovascular Engineering
Career Counseling*
Children's Mental Health**
Clinical Investigation**
College Teaching*
Community Development
Community Design and Development
Comparative Literary Studies
Creative Writing
Criminal Justice Administration*
Cuban Studies
Digital Music Education**
Disaster Management**
Diversity
English Education
Entrepreneurship***
Environmental Policy and Management
Epidemiology
Foreign Language Education
Geographical Information Systems
Geriatric Social Work/Clinical Gerontology
Gerontology
Gifted Education**
Globalization Studies
Health Care Risk Management
Health Management and Leadership*
Homeland Security***
Hospice, Palliative Care and End of Life Studies
Humanitarian Assistance**
Hydrogeology
Infection Control
Instructional Technology: Distance Education**
Instructional Technology: Florida Digital Educator**
Instructional Technology: Instructional Design*
Instructional Technology: Multimedia Design
Instructional Technology: Web Design**
Interdisciplinary Transportation
Latin American & Caribbean Studies
Leadership in Developing Human Resources
Marriage and Family Therapy
Materials Science and Engineering
Mathematics
Mental Health Counseling*
Mental Health Planning, Evaluation and Accountability
Molecular Medicine
Multimedia Journalism*
Museum Studies
Music
Nonprofit Management
Nursing Education
Nursing and Healthcare Informatics*
Occupational Health Nursing**
Play Therapy
Political Science
Post Master's Educational Leadership (K-12)
Post-Master's: Library and Information Science*
Post Master's Marriage and Family Therapy
Post Master's Nurse Practitioner
Process Engineering***
Public Health Generalist**
Public Health Policy and Programs**
Public Management
Reading Certificate and Endorsement*

Regulatory Affairs – Medical Devices***
Rehabilitation Technology
Research Methods*
Safety Management
Sciences Education
School Library Media Specialist*
Social Marketing & Public Health
Social Science Education
Statistical Data Analysis
Teaching Composition
Teaching English as a Second Language (TESL)
Technology Management***
Total Quality Management***
Transportation Systems Analysis***
Violence and Injury: Prevention and Intervention
Wireless Engineering***
Women's Health
Women's Studies
* Partially online
**Fully online
***Fully online via Academic and Professional Engineering Excellence (APEX)

Graduate Certificate Policies

The areas of study for the graduate certificates are created within the mission of graduate education. Students will be awarded certificates upon completion of specific course work, which has been approved by the Graduate Council. The graduate certificate is not defined as a degree by the Graduate School; rather, it is a focused collection of courses that, when completed, affords the student some record of distinct academic accomplishment in a given discipline or set of related disciplines. Moreover, the graduate certificate is not viewed as a guaranteed means of entry into a graduate degree program. While the courses comprising a graduate certificate may be used as evidence in support of a student's application for admission to a degree program, the certificate itself is not considered to be a prerequisite.

Process of Approval for New Graduate Certificates
Proposals for new areas of study for graduate certificates are created and submitted by the academic unit that wishes to offer such a certificate. Proposals must be accompanied by endorsement from the department heads and deans of the colleges/schools in which the contributing course work is offered as well as from the academic unit or units whose students or degree programs could be impacted by the creation of the graduate certificate. The Graduate Council will consider all the proposals for new graduate certificates to assure proposal guidelines have been followed and that repetition and redundancy across areas of study for certificates are not evident. Those meeting the criteria set forth by Graduate Council will then be recommended to the Provost for approval.

Criteria for Approval
The general principles applied to the assessment of the academic quality of proposals for new graduate areas of study for certificate include:

1. The proposed sequence of course work must offer a clear and appropriate educational objective at the post-baccalaureate level.

2. The proposed curriculum will achieve its educational objective in an efficient and well-defined manner.

3. A perceived need for such a certificate should exist. This provision might be defined in terms of either external markets (i.e., external demand for the skills associated with such a certificate) or internal academic means (i.e., the need for a critical mass of students in a given discipline).

4. An appropriate number of credit hours must comprise the area of study for the certificate. The number of graduate credits cannot be less than nine (9) or more than one-half of the credits necessary for a related master's degree from the Graduate School.

5. If the area of study for a certificate requires new courses, those courses must be approved by the appropriate College bodies or offices and the Graduate Council.

Student Eligibility and Admission Criteria
Student must apply and be accepted into the graduate certificate area of study to be eligible to receive a certificate. The prerequisites and general criteria of eligibility for admission to any graduate certificate area of study include:

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university or enrollment in a USF five-year academic program is required. Students in five-year academic programs

may be admitted upon completion of 120 semester hours.

2. Each graduate area of study sets the requirements for admission, including minimum grade point average, standardized test scores, and other similar criteria as part of the application.

3. Students who wish to pursue a graduate certificate must apply and be admitted to the certificate area. Students are encouraged to contact the coordinator prior to applying. All students who wish to pursue approved graduate certificates must be admitted to such areas of study before one-half of the required credits are completed. *Editor's Note: Non-degree students must apply before completing two graduate certificate courses – see Transfer of Credit Policy for information.*

4. Certificate-seeking-students not currently enrolled in a degree-granting graduate program, will be admitted into a separate classification within the University, and will be classified as "Graduate Certificate Students." This separate classification will permit the University to monitor statistical and enrollment data for certificate areas of study, and will allow inclusion of such efforts in the annual reports and academic planning. The Graduate Certificate Office will note successful completion of a certificate on the student's transcript upon completion.

5. Students pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing".

6. All graduate certificate students may apply one graduate course to two graduate certificates.

7. All graduate certificate students must meet all prerequisites for courses in which they wish to enroll. Should a graduate certificate student subsequently apply and be accepted to a degree-granting program, up to twelve (12) hours of USF credit earned as a graduate certificate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the degree-granting college and must be appropriate to the program. *See the Transfer of Credit Policy for more information.*

8. For information on transfer of credit policies pertaining to Graduate Certificates, refer to the transfer of credit policy in Section 7, Academic Policies, of this catalog,

Certificate Requirements
To receive a graduate certificate:

1. Students must successfully complete certificate requirements as established by the university.

2. Students must submit a completion form. Degree-seeking students must submit this form before graduating from their degree program. Non-degree-seeking students must submit this form no later than one semester after completing their certificate course work.

3. Students must have been awarded a bachelor's or higher degree.

Section 12

School of Architecture and Community Design

University of South Florida
School of Architecture and Community Design
3702 Spectrum Blvd. #180
Tampa, FL 33612

Web address: http://www.arch.usf.edu/
Email address: information@arch.usf.edu
Phone: 813-974-4031
Fax: 813-974-2557

School Dean: Charles C. Hight
Associate Dean: Daniel S. Powers
Graduate Coordinator: Daniel S. Powers

Accreditation:
Accredited by the National Architecture Accrediting Board.

Mission Statement:
The School of Architecture and Community Design emphasizes architecture and community design proficiency, technical competency, and applied research that constitute thorough preparation for practice into the 21st century. The school seeks to create environments in which students and faculty can: experience and appreciate the poetry of architecture; study the myriad forms of community and human habitat; understand how past designs can inform future possibilities; master the technologies necessary to create a sound, ecological world; develop a vision of what such a world might be; assume leadership roles in helping achieve this vision. The school also aims to increase the general understanding of environmental design through undergraduate education programs, public events and exhibitions, and dialogue about emerging issues and it develops and transmits new knowledge through advanced certificate programs and continuing education programs.

Major Research Areas:
Architecture and Community Design

Types of Degrees Offered:
Master of Architecture (M.Arch.)

Name of Programs Offered:
Architecture

Concentrations:
n/a

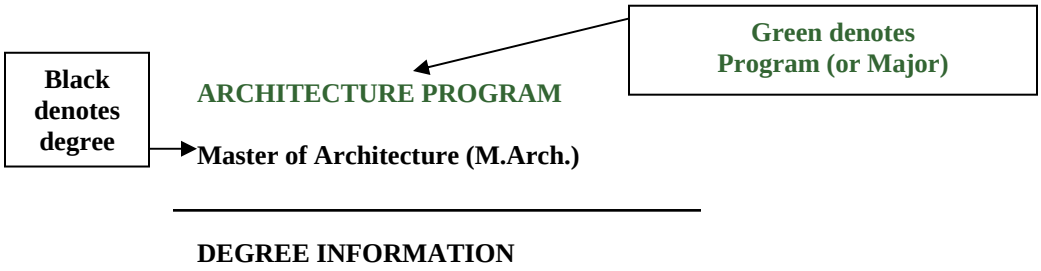
Graduate Certificates Offered:
Community Design and Development

College Requirements:
n/a

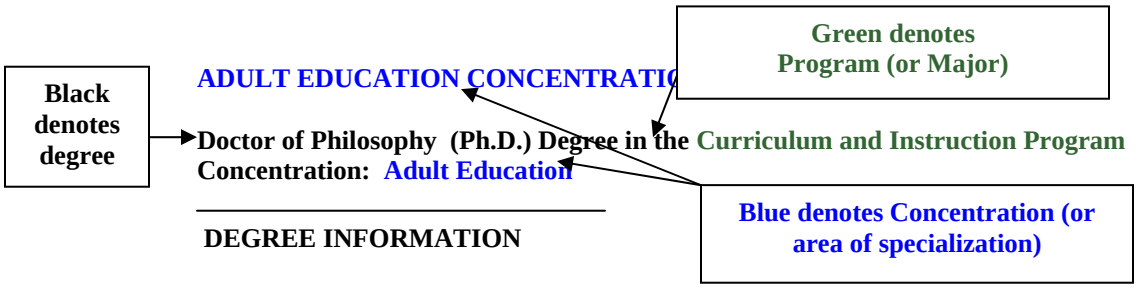
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

ARCHITECTURE PROGRAM

Master of Architecture (M.Arch.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall Deadline: February 1
Fall admissions only.

Minimum Total Hours: 105/55
Program Level: Masters
CIP Code: 4.0201
Department Code: DEA
Program (Major/Coll) Code: ARC AR

CONTACT INFORMATION

College: School of Architecture and Community Design

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The program leading to the accredited Master of Architecture degree is intended for students who have completed baccalaureate degrees in non-architectural majors or with a pre-professional undergraduate major in one of the design professions. The comprehensive and rigorous curriculum prepares graduates for a full range of professional activities. The course of study emphasizes urban architecture and related topics to take advantage of its diverse metropolitan setting in Florida's Tampa Bay.

The School of Architecture and Community Design (SACD) is home to the Florida Center for Community Design and Research, is a non-profit public service institute of the School of Architecture and Community Design. It was founded in 1986 to assist the citizens of Florida in the creation of more livable and sustainable communities through applied community design, multi-disciplinary research, and public education. The diverse staff includes architecture faculty and students, research scientists, and programmer analysts. In addition, the Center has affiliated faculty or graduate students from the Department of Anthropology, Biology, Fine Arts, Geography, and Social Work.

Accreditation and Licensure:

Applicants for architectural licensure in Florida, and most jurisdictions in the United States, normally must have:

- earned a professional degree from a School accredited by the National Architectural Accrediting Board (NAAB)
- completed the Intern Development Program (IDP)
- passed the Architect Registration Examination (ARE)

According to the 1998 edition of the of the NAAB Conditions and Procedures:"In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture, recognized two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards. Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree."

Major Research Areas:

Architecture and Community Design

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

In order to enroll in the M.Arch. Program, students must be accepted by the Graduate School and the School of Architecture and Community Design. These are separate admission processes that involve different application forms, supportive materials, and deadlines. For more detailed information, students should see Graduate Admissions online and visit the SACD website.

Program Admission Requirements
The Master of Architecture (M.Arch.) requires a 3.00 undergraduate GPA; GRE Test Score; Portfolio of creative work; Completed 3 prerequisite courses: Physics, Calculus, and AutoCAD; Written Statement of Intent.

DEGREE PROGRAM REQUIREMENTS
The M.Arch. Degree normally requires 105 credit hours of coursework for students with baccalaureate degrees in non-architectural subjects. In order to complete the program in a timely manner, students must complete 15-17 credit hours per semester. Students with undergraduate degrees in architecture or related fields may receive waivers for some required courses for which a grade of B or better was earned. Students with four-year pre-professional degrees must complete a minimum of 52 credit hours in the Master of Architecture program. Students with five or six year professional degrees from a NAAB/CAAB accredited program (U.S. and Canada) must complete a minimum of 30 credit hours in the program. Fore more detailed information, interested students should contact the School directly or visit its website.

Course Requirements:
Prerequisites: College level Physics*, calculus*, Computer-aided Design, competence in design/graphics (portfolio)

History/Theory
ARC 5731 – Architectural History I*
ARC 5732 – Architectural History II*
ARC 5256 – Design Theory*

Technology
ARC 5470 – Intro to Technology*
ARC 5467– Materials and Methods*
ARC 5587 – Structures I*
ARC 5588 – Structures II*
ARC 5689 – Environmental Technology*
ARC 6481– Design Development
One elective in technology

Design/Graphics
ARC 5361 – Core Design I*
ARC 5362 – Core Design II*
ARC 5363 – Core Design III*
ARC 6364 – Advanced Design A *
ARC 6365 – Advanced Design B
ARC 6366– Advanced Design C
ARC 6970 - Masters Project Planning
ARC 6976- Masters Project OR ARC 6367 – Advanced Design D
One elective in Design/Graphics*

Professional Practice
ARC 6287 – Professional Practice I
ARC 6288 – Professional Practice II

Urban Design
One elective in Urban Design

Free Electives
9 credit hours required

*Courses marked by asterisk (*) may be completed in undergraduate pre-professional or similar programs with a grade of B or above and with approval of faculty advisor.

OTHER REQUIREMENTS
Computers
The School of Architecture and Community Design requires each student enrolled in the Advanced Design Studios level, or higher, to possess (through purchase or lease) a NOTEBOOK COMPUTER system.

The notebook computer requirement allows students to conduct the majority of digital work, which is an integral aspect of advanced architectural design education and professional practice, in the design studio. The studio is the primary place for the exchange of design ideas, critique, and synthesis, and the Architecture faculty believes that the student's regular presence in the studio is critical for maximizing her or his architectural design learning.

The notebook system is required in lieu of a desktop in order to address the limited design studio space available to each student. The mobility of the notebook allows the student to easily and quickly transform a relatively small desk space into a variety of configurations suitable for physical model-making, hand-drawing, hand-drafting, design research, and design writing as well as digital drawing, modeling, and graphic design. The battery-powered notebook allows for maximum computer use within environments with limited electrical power outlets.

The School will continue to maintain high-powered computer systems in the laboratory for intensive computing required for manipulating large digital models, renderings, etc. Students may begin their digital work on their laptops and, if needed, use removable storage and network connections to transfer files to the lab systems for final development. The School provides black and white printers, color and black and white plotters, and scanners in the computer laboratory.

Because the notebook computer system is an educational requirement of the School, the cost of a new computer purchase can be factored in determining a student's financial need. The student must contact the USF Office of Financial Aid (813-974-4700) to request additional information and a "Budget Adjustment for Computer Purchase" form prior to ordering a computer. The decision regarding a student's budget adjustment may take 6-8 weeks, so

students are strongly encouraged to plan ahead. Only one financial aid budget adjustment up to $2,500 for a new computer can be issued during a three year period.

Portfolios
The faculty requires the submission of portfolios of academic work by each student at two formal portfolio reviews. Students must pass these portfolio reviews in order to advance in the program. The portfolio policy can be found on the School's website. Students are advised to prepare their design work for inclusion in their portfolios at the end of each design semester, instead of waiting until just before the portfolio due dates. Some expense, varying widely according to reproduction technique and/or ambition, should be anticipated.

Field Trips
Each year students in the fall term beginning students in take a field trip to Savannah, GA. Transportation, lodging and meals ($200-300) are paid by the students. Students in design studios take field trips to such cities as New York, Boston and Chicago in the spring. The cost of these trips may be $200-600 per student.

Student Work
Student work, submitted to the School in satisfaction of course or degree requirements, becomes the physical property of the School. This work may include papers, drawings, models, and other materials in either physical or electronic form. The School assumes no responsibility for safeguarding such materials. At its discretion, this School may retain, return, or discard such materials. The School will not normally discard the materials of currently enrolled students without giving the student a chance to reclaim them.

GPA of 3.00 in Design
In addition to the state-wide requirement that students maintain an overall grade point average(GPA) of 3.00 or better, the Architecture faculty also requires that students maintain a GPA of 3.00 or better in all design courses.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

Section 13

College of Arts and Sciences

University of South Florida
College of Arts and Sciences
4202 E. Fowler Ave SOC107
Tampa, FL 33620

Web address: http://www.cas.usf.edu/
Email: see department listings
Phone: 813-974-6957
Fax: 813-974-4075

College Dean: John Skvoretz
Associate Dean: Robert Potter
Graduate Coordinator: Robert Potter

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools. Contact college for other accreditation information

Mission Statement:
The College of Arts and Sciences is a community of scholars dedicated to the idea that educated people are the basis of a just and free society. The essences of education are a capacity for the appreciation of social change within a context of prior human achievement. The faculty of the Arts and Sciences strive to instill in their students a history of human ideas, a love of learning, and an understanding of the means that scholars have used in their search for beauty and order in the natural world.The education provided by the disciplines of the Arts and Sciences is the foundation upon which the lives and professions of our students are built, and the basis from which personal growth occurs.

The College of Arts and Sciences takes as its goal a melding of the natural, humanistic and social philosophies into a comprehensive whole that encourages the development of new ideas and new approaches to the understanding of our university. It is the responsibility of scholars to share their discoveries for the betterment of society. Thus, the Arts and Sciences embrace the disciplines that strive to make immediate use of knowledge in the service of social goals as well as the disciplines whose discoveries contribute to the fund of basic information that is the stepping stone of applied knowledge.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Arts (M.A.), Master of Liberal Arts (M.L.A.), Master of Public Administration (M.P.A.), Master of Science (M.S.), Master of Social Work (M.S.W.), Doctor of Audiology (Au.D.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Arts - M.A
American Studies, Applied Anthropology, Applied Linguistics, Chemistry, Classics (CoOp, UF.), Communication, Criminal Justice Administration, Criminology, English, French, Geography, Gerontology, History, Latin American, Caribbean, and Latino Studies, Library and Information Science, Linguistics, Mass Communications, Mathematics, Philosophy, Political Science, Psychology, Rehabilitation and Mental Health Counseling, Rehabilitation Counseling - 5 yr program, Religious Studies, Sociology, Spanish, Statistics, Women's Studies

M.A. Programs for Secondary School Teachers and Jr. College Teachers (offered with College of Education)

Master of Liberal Arts - M.L.A
Master of Public Administration - M.P.A

Master of Science - M.S.
Audiology, Aural Rehabilitation, Biology, Chemistry, Environmental Science and Policy, Geology, Microbiology, Physics, Speech-Language Pathology

Master of Social Work - M.S.W.
Maternal and Child Health/Clinical Social Work – Dual Program

Doctor of Audiology -Au.D.
Audiology
Audiology/Communication Sciences and Disorders – Dual Program

Doctor of Philosophy -Ph.D.
Aging Studies, Applied Anthropology, Audiology/Communication Sciences and Disorders – Dual Program, Biology, Chemistry, Communication, Communication Sciences and Disorders, Criminology, English, Geography and Environmental Science and Policy, Geology, Mathematics, Philosophy, Physics (Applied), Psychology, Second Language Acquisition & Instructional Technology*, Social Work
*offered through the Department of Secondary Education

Areas of Concentrations:
Addictions & Substance Abuse Counseling
Additctions & Substance Abuse Counseling (5 yr)
Africana Studies
American History
Analytical Chemistry
Ancient History
Aqueous Geochemistry
Atmospheric Physics
Atomic and Molecular Physics
Biochemistry
Bio-Cultural Medical Anthropology
Biogeochemistry
Clinical Psychology
Coastal Geology
Coastal Marine Biology
Cognitive and Neural Sciences
Computational Chemistry
Conservation Biology
Creative Writing
Cultural Resource Management
Environmental Chemistry
Economic, Social and Planning Issues in Urban Environment
Environmental Chemistry
Environmental Geophysics
European History
Florida Studies
Geographic Information Systems and Spatial Analysis
Geomorphology
Hearing Sciences and Audiology
Humanities
Hydrogeology
Industrial and Organizational Psychology
Inorganic Chemistry
Journalism Studies (at St. Petersburg)
Laser Physics
Latin American History
Latin/Greek: co-op program with U.F.
Liberal Studies
Literature
Marriage and Family Therapy
Marriage and Family Therapy (5 yr)
Materials Physics
Media Studies
Medical Physics
Medieval History
Molecular Cellular Biology
Multimedia Journalism
Natural/Technological Hazards and Environmental Justice
Neurocommunicative Sciences
Optical Physics
Organic Chemistry
Paleoclimatology
Paleontology
Petrology
Physical Chemistry
Polymer Chemistry
Pure and Applied (Math)
Rhetoric and Composition
Semiconductor Physics
Social and Political Thought
Solid State Physics
Speech-Language Sciences
Statistics
Strategic Communication Management
Tectonophysics

Graduate Certificates Offered:
See Graduate Certificates Section

COLLEGE REQUIREMENTS

Thesis Enrollment

Upon successful completion of all M.A./M.S. degree requirements except for thesis, Arts and Sciences graduate students must enroll in a minimum of two (2) credit hours of Thesis each semester (except Summers) until the completion of the master's degree.

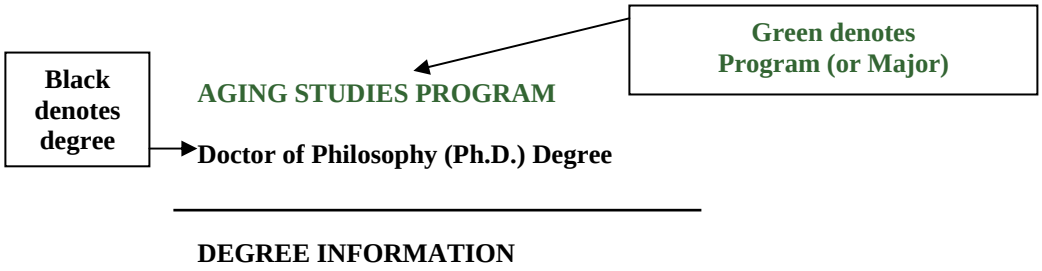
Dissertation Enrollment

Doctoral students who have been admitted to candidacy, are required to accumulate a minimum of six (6) credit hours of Dissertation during each previous 12-month period (previous three (3) terms, e.g., Fall, Spring, Summer) until the degree is granted.

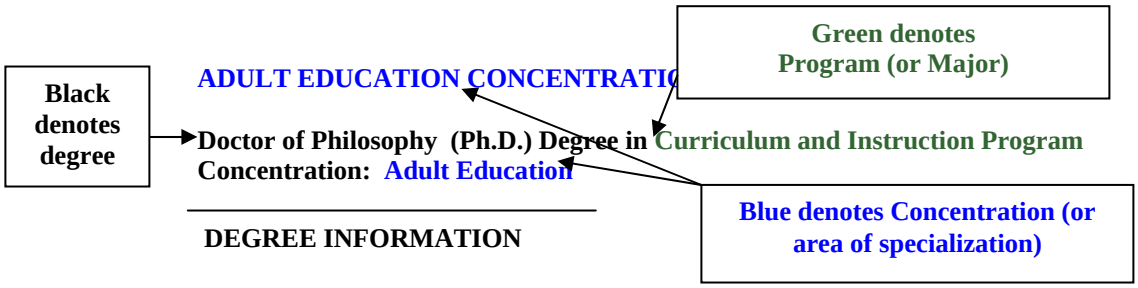
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

AGING STUDIES PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 1
Fall admissions only

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 30.1101
Dept Code: GEY
Program (Major/College): AGE AS

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Aging Studies

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Interdisciplinary Ph.D. in Aging Studies is the first of its kind in the United States, and to the best of our knowledge, the world. What makes this program unique is the combined emphasis on providing a broad based foundation in the interdisciplinary aspects of aging with a focus on developing in-depth expertise in a research area. The program draws on the expertise of faculty from multiple colleges, departments, and centers at the University of South Florida to provide students with exposure to other disciplines and the different approaches to scientific and scholarly inquiry.

The Ph.D. in Aging Studies is hosted by the School of Aging Studies, which is the organizational focal point for interdisciplinary research, educational, clinical and community service activities in aging for faculty and students. An interdisciplinary committee of faculty governs the program, allowing, students to develop research programs that focus on their particular interests and capitalize on the breadth of opportunities throughout the university.

The Ph.D. in Aging Studies is a research-oriented program designed to train future leaders in the field of aging. The program admits students who show exceptional promise to become strong academic, public sector, and corporate researchers. Students should expect to enroll in the program full time (9 credits in fall, 9 credits in spring, and 6 credits in summer). First year students are generally supported with at $16,000 fellowship, tuition waiver, and health insurance. Fellowship or assistantship support and tuition waivers are generally available during subsequent years of doctoral training. Students who wish to apply as part-time students must contact Dr. McEvoy before applying.

Faculty Organization

The interdisciplinary nature of the program is exemplified by the number of core faculty who teach and serve on dissertation committees in the program and the range of academic departments they represent. Over forty faculty from multiple colleges and research centers have been identified as the core faculty in the program.

Accreditation:

Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

GPA of 3.25 and a current GRE; to be competitive, 580V, 620Q, 5.0 A.W.. Applicants where English is not the language of instruction must also submit a TOEFL score of at least 600. In addition, students must submit their best example of a single authored writing sample, and a summary of their career goals and past preparation for a research career plus three letters of recommendation from individuals familiar with the student's work and/or research.

DEGREE PROGRAM REQUIREMENTS

There are 4 three-credit courses that constitute the core interdisciplinary requirements for the program and 2 required methods/statistics courses.. The core courses are Psychological Aging: Interdisciplinary Perspectives, Biomedical Aging, Population Aging, and Social and Health Aspects of Aging. Each core course is taught from an interdisciplinary perspective with faculty from different fields addressing issues from their disciplinary perspectives. Students must also enroll in a sequence of at least two methods/statistics courses and encouraged to obtain additional training in methods relevant to their dissertation.

Students are required to enroll in the Aging Studies Pro-seminar (2 credits) each fall and a content seminar (3

credits) each spring semester continuously until they are admitted to candidacy. The Pro-seminars investigate different research topics, allow students to practice presenting their research, and provide students with exposure to distinguished lecturers from throughout the U.S. The content seminars cover different topics relevant to aging each spring semester.

All students complete a First Year Research Project, designed to be presented at a national conference in the fall of their second year. Students develop individualized courses of study, allowing specialization in a wide variety of content areas and research methods. Supervised research experience is available from a number of faculty with diverse research expertise.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

AMERICAN STUDIES PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	33
Program Level:	Masters
CIP Code:	05.0102
Dept Code:	AMS
Program (Major/College)	AMS AS

CONTACT INFORMATION

College:	Arts and Sciences
Department:	Humanities and American Studies
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The Master of Arts in American Studies offers students the opportunity to study the social relations and cultural patterns that have both unified and divided Americans over time. Topics cover include popular and elite cultures; the material and technological foundations of American society; cultural heroines and heroes; and the values, ideals, and lifestyles of ordinary people as well as those of recognized historical figures. Students learn how to analyze a broad range of texts, including literature, art, film, and material culture, for evidence of these patterns in American life and culture.

Accreditation:

Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

3.00 upper division undergraduate GPA, an official transcript, GRE required with a verbal score of 500 or higher and an analytical writing score of not less than 4.5 and an academic writing sample.

DEGREE PROGRAM REQUIREMENTS

Total required hours (33)

1. 12 hours: AMS 6156, AMS 6254, AMS 6805, and AMS 6938

2. 15 hours: To be selected from 5000 or 6000 level courses in American Studies and/or related departments, such as: English, History, Humanities, Philosophy, Religious Studies, Sociology, and Women's Studies. No more than 6 hours from any one department may be credited toward the degree without written consent from the Graduate Director. Work in AMS 6002, AMS 6375, AMS 6901, AMS 6915, AMS 6934, and AMS 6940 may be included.

3. 6 hours: Thesis AMS 6971.

During the semester immediately following completion of required course work, each student will select a thesis topic, constitute a thesis committee, and write and orally defend a thesis proposal. The student will then write a 40 to 80 page thesis. The thesis is an extended research project within a specific area of Concentration, culminating in a written academic analysis. Upon completion of the thesis, the subject of which must be determined in consultation with the Graduate Director, the student must schedule an oral defense.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

APPLIED ANTHROPOLOGY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admission only

Minimum Total Hours: 40
Program Level: Masters
CIP Code: 45.0201
Dept Code: ANT
Program (Major/College): APA AS

Concentrations available in: Bio-cultural Medical Anthropology, Cultural Resource Management

CONTACT INFORMATION

College: Arts and Sciences
Department: Anthropology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. program, initiated in 1974, was the first in the country to focus on career training for the practice of Applied Anthropology. Faculty at USF specialize in various areas including medical anthropology, biological anthropology, urban policy and community development, education, archaeology, cultural resource management (CRM), economic development, immigration, linguistics, media, and issues pertaining to race, gender, and ethnicity. Geographic specializations emphasize the Caribbean, Latin America, Sub-Saharan Africa, and the United States. More than 200 graduates have received an education in anthropology and its practical uses, leading to employment in government and private sector agencies and organizations. For many, the MA is a terminal degree that qualifies them for professional careers in administration, program evaluation, planning, research, and cultural resource management. Others have gone on to earn doctoral degrees and have gained employment in academic or higher level nonacademic positions. There are two graduate concentrations, one in Bio-cultural Medical Anthropology and another in Cultural Resouce Management. The former provides expertise on the management and preservation of cultural resources.

Master's level anthropology at USF has three tracks, all leading to the M.A. in Applied Anthropology but with emphases in cultural anthropology, biological anthropology, and archaeology. Although these three tracks share some common requirements, and are bound by general rules of the USF Graduate School, they have different curricula and employment trajectories. Archaeology graduates typically enter careers in contract archaeology, or public and private agencies and museums responsible for managing archaeological resources. The cultural focus of the M.A. in Applied Anthropology is designed to lead to employment in diverse areas that include health care, education, urban planning, human services, private sector consulting and research, and non-governmental community organizations. Museum and heritage programming represent an area of overlap between the two emphases. Students who wish to pursue these kinds of specialties will develop curricula that draw from both applied and public archaeology requirements in consultation with their advisors. Biologocial Anthropology students are trained to work in health care, law enforcement, private sector consulting and research, and non-governmental organizations. MA students can select elective courses to fulfill a concentration in Bio-cultural medical anthropology or Cultural Resource Management.

For information regarding the dual degree M.A./MPH program with the College of Public Health, refer to the separate listing under Anthropology or Public Health

Accreditation:

Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:

Biocultural medical research in the U.S., Latin America, and Africa including nutrition, population genetics, forensics, maternal and child health, and HIV/AIDS; media and visual anthropology; urban anthropology; Florida archaeology; Mesoamerican archaeology; archaeological science; cultural resource management; language shift and revitalization; bilingualism; heritage studies.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA. While the GRE is required, there is no minimum score for admission into the program. Other admission requirements include:

1) a statement of purpose
2) a signed Research Ethics statement
3) at least three letters of recommendation
4) a resume
5) graduate assistant application form (optional)

DEGREE PROGRAM REQUIREMENTS

Total required hours (40)

Comprehensive exam requirement satisfied upon successful completion of Foundation I (ANG 6931)

Core Requirements:

Applied Anthropology cultural **track** MA students are required to take ANG 6931 (Foundation I), ANG 6701 (Contemporary Applied Anthropology), ANG 5486 Quantitative Methods, and ANG 6766 (Research Methods in Applied Anthropology), plus five (5) elective graduate seminars in Anthropology and one (1) graduate seminar outside the Anthropology Department.

Applied Anthropology Archaeology track MA students are required to take ANG 6931 (Foundation I), ANG 6198 (Archaeological Methods), ANG 6196 (Archaeological Theory), ANG 5486 Quantitative Methods, and ANG 6197 (Public Archaeology), plus two (2) electives in archaeology, one (1) elective in biological anthropology, and one (1) graduate seminar outside the Anthropology Department.

ANG 6915: MA Internship, 4 credit hours minimum.

ANG 6971: Thesis (6 credit hours), at least 2 credit hours per semester until thesis is accepted.

Concentration in Bio-cultural Medical Anthropology

Graduate students in the M.A., Ph.D., or dual degree programs can select three graduate medical anthropology elective courses with the ANG prefix, one of which must be cross-listed with ANG 6511 (Seminar in Physical Anthropology). The following courses are regularly offered and can be taken as bio-medical electives:

ANG 6565 Regional Problems in Medical Anthropology
ANG 6568 Applied Anthropology and International Health
ANG 6569 Selected Topics in Medical

Anthropology (recent selected topics courses include Nutritional Anthropology, Ethnicity and Health Care, Community and Health Care, Social Epidemiology of AIDS, Cross-cultural Aspects of Aging, Forensic Anthropology (Cross listed with ANG 6511), Human Biology of Afro-Cuban Populations (cross-listed with ANG 6511), Theories and Methods in Applied Bio-anthropology.

Other electives as approved by advisor

Graduate students pursuing a concentration in Bio-cultural Medical Anthropology must take the basic course requirements of their graduate program.

Concentration in Cultural Resource Management

Graduate students in the M.A. or Ph.D. degree programs, regardless of track, may select this 9-credit concentration.

Two courses, ANG 6197 (Public Archaeology, 3 cr.) and ANG 6115 Special Topics in Archaeology (when topic is Current Issues and Techniques in Cultural Resources Management, 3 cr.)

Third 3-credit class will be selected from the following options:

ANG 6448 Regional Problems in Urban Anthropology (when topic is Issues in Heritage Tourism, or other as approved by Graduate Director)
ANG 6115 Topics in Public Archaeology (when topic is Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods, or other as approved by Graduate Director)

Graduate class in Geographic Information Systems, whether offered in Anthropology or another department.

Graduate students pursuing a concentration in Cultural Resource Management must take the basic course requirements of their graduate program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

APPLIED ANTHROPOLOGY AND PUBLIC HEALTH PROGRAMS

Dual Degree Program
Master of Arts (M.A.)/Master of Public Health (MPH) Degrees

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admissions only

Minimum Total Hours: Applied Anthropology 37
Public Health 38-51
Program Level: Masters
CIP Code: Appl Anthro: 45.0201
Public Health: 51.2201
Dept Codes: ANT, DEA
Program (Major/College): ANT AS / MPH PH

Concentrations available in: Bio-cultural Medical Anthropology, Cultural Resource Management

CONTACT INFORMATION

Colleges: Arts and Sciences,
Public Health

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The two programs review applicants independently. Application forms for Anthropology and Public Health are completed with each listing both as major areas or study. The review process may begin in either college. The timing of application should take into consideration that the COPH admits students three times a year (Fall, Spring, and Summer) and the Department of Anthropology admits students annually in the Fall. Once the applicant has been accepted into one program, the application folder is forwarded to the other program for review.

After admission to both programs, the Graduate Admissions office instructs the Registrar's Office to classify the student as dually enrolled in anthropology and public health. In choosing which program to apply to first, students should take into consideration the following: requirements in Anthropology for admission are different than in Public Health; admission to one program doesn't guarantee admission to the other; and of course, the student's interests and career plans.

Upon completion of all requirements for the dual degree program, the student submits separate applications for graduation to anthropology and public health, and is certified for graduation by both programs and receives two diplomas. Dual degree students can also select elective courses to fulfill a concentration in Bio-cultural medical anthropology.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA. The GRE is required for consideration in both programs, but there is no minimum score for admission into Anthropology. In Public Health, a student must achieve a 500 on the verbal and 600 on the quantitative sections of the GRE. Other admission requirements include:

1) a statement of purpose
2) a signed Research Ethics statement
3) at least three letters of recommendation
4) a resume
5) graduate assistant application form (optional)

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DEGREE PROGRAM REQUIREMENTS

M.A. in Applied Anthropology (37 hours)

1. ANG 6931 Foundation I (3cr)
2. ANG 6701 Contemporary Applied Anthropology (3cr)
3. ANG 6766 Research Methods in Applied Anthropology (3cr)

4. Graduate level statistics course fulfilled by PHC 6050 Biostatistics I or ANG 5486 Quantitative Methods

5. Five graduate level seminars (variable topics) in Anthropology, at least two in the area of medical anthropology (often ANG 6469 Selected Topics in Medical Anthropology); one of these fulfilled by taking in public health PHC 6410 Social and Behavioral Sciences Applied to Health or PHC 6931 Advanced Seminar in SBS Applied to Health

6. One graduate level course outside the Department of Anthropology fulfilled by public health courses

7. Comprehensive examination requirement met by successfully completing ANG 6931 (Foundation I)

8. Internship: ANG 6915; one semester, full-time after completion of course requirements, in the field of public health to dually fulfill MPH requirement for Supervised Field Experience PHC 6945, 4 credit hours minimum

9. Thesis: ANG 6971: dually fulfills MPH requirement for Special Project, PHC 6977, 6 credit hours minimum

MPH in Public Health (38-51 hours)

Requirements include public health core courses, concentration area courses, electives, supervised field placement, comprehensive exam, and special project.

1. Public Health Core Courses (15 hours, required for all concentration areas):
   a) PHC 6410 Social and Behavioral Sciences Applied to Health (3)
   b) PHC 6000 Epidemiology (3)
   c) PHC 6050 Biostatistics I (3) or ANG 5488 Statistics
   d) PHC 6102 Principles of Health Policy and Management (3)
   e) PHC 6357 Environmental and Occupational Health (3)

2) Concentration Area Courses
   a) Health Policies and Programs
   b) Health Care Organizations and Management
   c) International Health Management
   d) Epidemiology
   e) Environmental Health
   f) Tropical Public Health/Communicable Disease
   g) Maternal and Child Health
   h) Public Health Education

For program descriptions and requirements, please see College of Public Health

Concentration in Bio-cultural Medical Anthropology
Graduate students in the M.A., Ph.D., or dual degree programs can select three graduate medical anthropology elective courses with the ANG prefix, one of which must be cross-listed with ANG 6511 (Seminar in Physical Anthropology). The following courses are regularly offered and can be taken as bio-medical electives:

ANG 6565 Regional Problems in Medical Anthropology
ANG 6568 Applied Anthropology and International Health
ANG 6569 Selected Topics in Medical

Anthropology (recent selected topics courses include Nutritional Anthropology, Ethnicity and Health Care, Community and Health Care, Social Epidemiology of AIDS, Cross-cultural Aspects of Aging, Forensic Anthropology (Cross listed with ANG 6511), Human Biology of Afro-Cuban Populations (cross-listed with ANG 6511), Theories and Methods in Applied Bio-anthropology.

Other electives as approved by advisor

Graduate students pursuing a concentration in Bio-cultural Medical Anthropology must take the basic course requirements of their graduate program.

Concentration in Cultural Resource Management
Graduate students in the M.A. or Ph.D. degree programs, regardless of track, may select this 9-credit concentration.

Two courses, ANG 6197 (Public Archaeology, 3 cr.) and ANG 6115 Special Topics in Archaeology (when topic is Current Issues and Techniques in Cultural Resources Management, 3 cr.)

Third 3-credit class will be selected from the following options:

ANG 6448 Regional Problems in Urban Anthropology (when topic is Issues in Heritage Tourism, or other as approved by Graduate Director)
ANG 6115 Topics in Public Archaeology (when topic is Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods, or other as approved by Graduate Director)

Graduate class in Geographic Information Systems, whether offered in Anthropology or another department.

Graduate students pursuing a concentration in Cultural Resource Management must take the basic course requirements of their graduate program.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

APPLIED ANTHROPOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admission only

Minimum Total Hours: 46 beyond MA
Program Level: Doctoral
CIP Code: 45.0201
Dept Code: ANT
Program (Major/College): APA AS

Concentrations available in: Bio-cultural Medical Anthropology, Cultural Resource Management

CONTACT INFORMATION

College: Arts and Sciences
Department: Anthropology

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ph.D. program in Applied Anthropology, initiated in 1984, was the first doctoral program of its kind. Its primary focus is to prepare students in the theories, methods, skills and techniques of applied anthropology. The program is designed to prepare students to conduct research, teach, and practice applied anthropology in both academic and nonacademic settings. Students participate in either a structured research internship or independent field research for two consecutive semesters. Ph.D. students can select elective courses to fulfill a concentration in Bio-cultural Medical Anthropology or Cultural Resource Management.

For information regarding the dual degree Ph.D./MPH program with the College of Public Health, see the separate listing under Anthropology or Public Health.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools

Major Research Areas:
Biocultural medical research in the U.S., Latin America, and Africa, including nutrition, population genetics, forensics, maternal and child health, and HIV/AIDS; media and visual anthropology; urban anthropology; Florida archaeology; Mesoamerican archaeology; archaeological science; cultural resource management; language shift and revitalization, bilingualism; heritage studies.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA. While the GRE is required, there is no minimum score for admission into the program. Other admission requirements include:

1) a statement of purpose
2) a signed Research Ethics statement
3) at least 3 letters of recommendation
4) a resume
5) graduate assistant application form (optional)

DEGREE PROGRAM REQUIREMENTS

Total required hours: 46 hours beyond the M.A.

Course requirements:

1. Upon completion of any prerequisites: ANG 6931 (Foundations I).

Must receive a grade of "B" or better; satisfies preliminary examinations in four subfields

2. For cultural track, five additional required courses within the Department of Anthropology: ANG 6490 (Seminar in Cultural Anthropology [when topic is Anthropological Theory Today]), ANG 6701 (Contemporary Applied Anthropology), ANG 6766 (Research Methods in Applied Anthropology), ANG 7704 (Legal and Ethical aspects of Applied Anthropology), ANG 7750 (Research Methods in Applied Anthropology [when the topic is quantitative methods].

3. For archaeology track: ANG 6198 (Archaeological Methods), ANG 6196

(Archaeological Theory and Current Issues), ANG 6197 (Public Archaeology) and ANG 7750 (Research Methods in Applied Anthropology [when the topic is quantitative methods], and ANG 7933 (Selected Topics in Applied Anthropology, [when the topic is Advanced Archaeological Theory]).

4. For biological track, required courses include: ANG 7750 (Research Methods in Applied Anthropology, when topic is Quantitative Methods), ANG 6701 (Contemporary Applied Anthropology), ANG 6511/6588 (Human Variation), and ANG 6469/ANG 6511 (when topic is Theory and Methods in Applied Bioanthropology), ANG 6766 (Research Methods in Applied Anthropology)..

5. Three elective graduate level Anthropology courses.

External specialization
Minimum of three graduate level courses taken outside the Department of Anthropology, with consent of advisor. Students with M.A. degrees in disciplines other than Anthropology may, at the discretion of the Advisor and Supervisory Committee, use the M.A. as proof of the external specialization.

Language Requirement:
All Ph.D. students are required to demonstrate proficiency in a foreign language, the specifics to be determined by the student and the supervisory committee, taking into account the nature of the student's research. Minimal proficiency is demonstrated by the ability to satisfactorily translate a selection of the scholarly literature in the foreign language, with the occasional aid of a dictionary. The supervisory committee may require additional levels of proficiency depending on the nature of individual student research. The language requirement must be satisfied no later than the date of the dissertation defense.

Qualifying examination covering area of specialization within applied anthropology and external specialization.

Two-semester internship or dissertation research ANG 7940 (Doctoral Internship in Applied Anthropology, minimum of 4 credit hours).

Dissertation, based on research or internship ANG 7980 (Doctoral Dissertation, minimum of 6 credit hours).

Concentration in Bio-cultural Medical Anthropology
Graduate students in the M.A., Ph.D., or dual degree programs can select three graduate medical anthropology elective courses with the ANG prefix, one of which must be cross-listed with ANG 6511 (Seminar in Physical Anthropology). The following courses are regularly offered and can be taken as bio-medical electives:

ANG 6565 Regional Problems in Medical Anthropology
ANG 6568 Applied Anthropology and International Health
ANG 6569 Selected Topics in Medical

Anthropology (recent selected topics courses include Nutritional Anthropology, Ethnicity and Health Care, Community and Health Care, Social Epidemiology of AIDS, Cross-cultural Aspects of Aging, Forensic Anthropology (Cross listed with ANG 6511), Human Biology of Afro-Cuban Populations (cross-listed with ANG 6511), Theories and Methods in Applied Bio-anthropology.

Other electives as approved by advisor

Graduate students pursuing a concentration in Bio-cultural Medical Anthropology must take the basic course requirements of their graduate program.

Concentration in Cultural Resource Management
Graduate students in the M.A. or Ph.D. degree programs, regardless of track, may select this 9-credit concentration.

Two courses, ANG 6197 (Public Archaeology, 3 cr.) and ANG 6115 Special Topics in Archaeology (when topic is Current Issues and Techniques in Cultural Resources Management, 3 cr.)

Third 3-credit class will be selected from the following options:

ANG 6448 Regional Problems in Urban Anthropology (when topic is Issues in Heritage Tourism, or other as approved by Graduate Director)
ANG 6115 Topics in Public Archaeology (when topic is Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods, or other as approved by Graduate Director)

Graduate class in Geographic Information Systems, whether offered in Anthropology or another department.

Graduate students pursuing a concentration in Cultural Resource Management must take the basic course requirements of their graduate program.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

APPLIED ANTHROPOLOGY AND PUBLIC HEALTH PROGRAMS

Dual Degree Program
Doctor of Philosophy (Ph.D.)/Master of Public Health (MPH) Degrees

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admissions only

Minimum Total Hours: Applied Anthropology 37
Public Health 38-51
Program Level: Doctoral and Masters
CIP Code: Applied Anthro:45.0201
Public Health: 51.2201
Dept Code: ANT, DEA
Program (Major/College): APA AS, MPH PH

Concentrations available in: Bio-cultural Medical Anthropology, Cultural Resource Management

CONTACT INFORMATION

Colleges: Arts and Sciences
Public Health
Departments: Anthropology, Public Health

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Students interested in combining a program of study leading to a doctorate plus master's degree have two choices: they may obtain a Ph.D. in Applied Anthropology with an M.P.H. in a Public Health concentration; or they may obtain a Ph.D. in Public Health with an M.A. in Applied Anthropology. For the doctoral/master's combination, students develop individual programs of study in consultation with an interdisciplinary academic advisory committee. The committee must approve the plan of study as well as the proposal to fulfill the thesis and dissertation requirements or dissertation and special project requirements through a single project.

The two programs review applicants independently. A single graduate school application form is completed, listing both anthropology and public health as major areas of study. The review process may begin in either college. The timing of application should take into consideration that the COPH admits students three times a year (Fall, Spring, and Summer) and the Department of Anthropology admits students annually in the Fall. Once the applicant has been accepted into one program, the application folder is forwarded to the other program for review. After admission to both programs, the Graduate Admissions office instructs the Registrar's Office to classify the student as dually enrolled in anthropology and public health. In choosing which program to apply to first, students should take into consideration the following: requirements in Anthropology for admission are different than in Public Health; admission to one program doesn't guarantee admission to the other; and of course, the student's interests and career plans. Upon completion of all requirements for the dual degree program, the student submits separate applications for graduation to anthropology and public health, and is certified for graduation by both programs and receives two diplomas. Dual degree students can also select elective courses to fulfill a concentration in I Bio-cultural medical anthropology.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA. The GRE is required for consideration in both programs, but there is no minimum score for admission into Anthropology. In Public Health, a student must achieve a 500 on the verbal and 600 on the quantitative section of the GRE. Other admission requirements include:

1) a statement of purpose
2) a signed Research Ethics statement
3) at least 3 letters of recommendation
4) a resume
5) graduate assistant application form (optional)

Admission requirements for the Ph.D. in Public Health include at least a 3.20 GPA at both the undergraduate and graduate levels, and a GRE of 550V and 620Q, 4.0 AW. In addition, admission to any of the dual degree programs

will consider letters of recommendation, past experience, goal statement and availability of faculty.

DEGREE PROGRAM REQUIREMENTS

Contact Programs for information.

Concentration in Bio-cultural Medical Anthropology

Graduate students in the M.A., Ph.D., or dual degree programs can select three graduate medical anthropology elective courses with the ANG prefix, one of which must be cross-listed with ANG 6511 (Seminar in Physical Anthropology). The following courses are regularly offered and can be taken as bio-medical electives:

ANG 6565	Regional Problems in Medical Anthropology
ANG 6568	Applied Anthropology and International Health
ANG 6569	Selected Topics in Medical

Anthropology (recent selected topics courses include Nutritional Anthropology, Ethnicity and Health Care, Community and Health Care, Social Epidemiology of AIDS, Cross-cultural Aspects of Aging, Forensic Anthropology (Cross listed with ANG 6511), Human Biology of Afro-Cuban Populations (cross-listed with ANG 6511), Theories and Methods in Applied Bio-anthropology.

Other electives as approved by advisor

Graduate students pursuing a concentration in Bio-cultural Medical Anthropology must take the basic course requirements of their graduate program.

Concentration in Cultural Resource Management
Graduate students in the M.A. or Ph.D. degree programs, regardless of track, may select this 9-credit concentration.

Two courses, ANG 6197 (Public Archaeology, 3 cr.) and ANG 6115 Special Topics in Archaeology (when topic is Current Issues and Techniques in Cultural Resources Management, 3 cr.)

Third 3-credit class will be selected from the following options:

ANG 6448	Regional Problems in Urban Anthropology (when topic is Issues in Heritage Tourism, or other as approved by Graduate Director)
ANG 6115	Topics in Public Archaeology (when topic is Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods, or other as approved by Graduate Director)

Graduate class in Geographic Information Systems, whether offered in Anthropology or another department.

Graduate students pursuing a concentration in Cultural Resource Management must take the basic course requirements of their graduate program.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

APPLIED ANTHROPOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admission only

Minimum Total Hours: 46 beyond MA
Program Level: Doctoral
CIP Code: 45.0201
Dept Code: ANT
Program (Major/College): APA AS

Concentrations available in: Bio-cultural Medical Anthropology, Cultural Resource Management

CONTACT INFORMATION

College: Arts and Sciences
Department: Anthropology

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ph.D. program in Applied Anthropology, initiated in 1984, was the first doctoral program of its kind. Its primary focus is to prepare students in the theories, methods, skills and techniques of applied anthropology. The program is designed to prepare students to conduct research, teach, and practice applied anthropology in both academic and nonacademic settings. Students participate in either a structured research internship or independent field research for two consecutive semesters. Ph.D. students can select elective courses to fulfill a concentration in Bio-cultural Medical Anthropology or Cultural Resource Management.

For information regarding the dual degree Ph.D./MPH program with the College of Public Health, see the separate listing under Anthropology or Public Health.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools

Major Research Areas:
Biocultural medical research in the U.S., Latin America, and Africa, including nutrition, population genetics, forensics, maternal and child health, and HIV/AIDS; media and visual anthropology; urban anthropology; Florida archaeology; Mesoamerican archaeology; archaeological science; cultural resource management; language shift and revitalization, bilingualism; heritage studies.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA. While the GRE is required, there is no minimum score for admission into the program. Other admission requirements include:

1) a statement of purpose
2) a signed Research Ethics statement
3) at least 3 letters of recommendation
4) a resume
5) graduate assistant application form (optional)

DEGREE PROGRAM REQUIREMENTS

Total required hours: 46 hours beyond the M.A.

Course requirements:

1. Upon completion of any prerequisites: ANG 6931 (Foundations I).

Must receive a grade of "B" or better; satisfies preliminary examinations in four subfields

2. For cultural track, five additional required courses within the Department of Anthropology: ANG 6490 (Seminar in Cultural Anthropology [when topic is Anthropological Theory Today]), ANG 6701 (Contemporary Applied Anthropology), ANG 6766 (Research Methods in Applied Anthropology), ANG 7704 (Legal and Ethical aspects of Applied Anthropology), ANG 7750 (Research Methods in Applied Anthropology [when the topic is quantitative methods].

3. For archaeology track: ANG 6198 (Archaeological Methods), ANG 6196 (Archaeological Theory and Current Issues), ANG 6197 (Public Archaeology) and ANG 7750 (Research Methods in Applied Anthropology [when the topic is quantitative methods], and ANG 7933 (Selected Topics in Applied Anthropology, [when the topic is Advanced Archaeological Theory]).

4. For biological track, required courses include: ANG 7750 (Research Methods in Applied Anthropology, when topic is Quantitative Methods), ANG 6701 (Contemporary Applied Anthropology), ANG 6511/6588 (Human Variation), and ANG 6469/ANG 6511 (when topic is Theory and Methods in Applied Bioanthropology), ANG 6766 (Research Methods in Applied Anthropology)..

5. Three elective graduate level Anthropology courses.

External specialization
Minimum of three graduate level courses taken outside the Department of Anthropology, with consent of advisor. Students with M.A. degrees in disciplines other than Anthropology may, at the discretion of the Advisor and Supervisory Committee, use the M.A. as proof of the external specialization.

Language Requirement:
All Ph.D. students are required to demonstrate proficiency in a foreign language, the specifics to be determined by the student and the supervisory committee, taking into account the nature of the student's research. Minimal proficiency is demonstrated by the ability to satisfactorily translate a selection of the scholarly literature in the foreign language, with the occasional aid of a dictionary. The supervisory committee may require additional levels of proficiency depending on the nature of individual student research. The language requirement must be satisfied no later than the date of the dissertation defense.

Qualifying examination covering area of specialization within applied anthropology and external specialization.

Two-semester internship or dissertation research ANG 7940 (Doctoral Internship in Applied Anthropology, minimum of 4 credit hours).

Dissertation, based on research or internship ANG 7980 (Doctoral Dissertation, minimum of 6 credit hours).

Concentration in Bio-cultural Medical Anthropology
Graduate students in the M.A., Ph.D., or dual degree programs can select three graduate medical anthropology elective courses with the ANG prefix, one of which must be cross-listed with ANG 6511 (Seminar in Physical Anthropology). The following courses are regularly offered and can be taken as bio-medical electives:

ANG 6565 Regional Problems in Medical Anthropology
ANG 6568 Applied Anthropology and International Health
ANG 6569 Selected Topics in Medical

Anthropology (recent selected topics courses include Nutritional Anthropology, Ethnicity and Health Care, Community and Health Care, Social Epidemiology of AIDS, Cross-cultural Aspects of Aging, Forensic Anthropology (Cross listed with ANG 6511), Human Biology of Afro-Cuban Populations (cross-listed with ANG 6511), Theories and Methods in Applied Bio-anthropology.

Other electives as approved by advisor

Graduate students pursuing a concentration in Bio-cultural Medical Anthropology must take the basic course requirements of their graduate program.

Concentration in Cultural Resource Management
Graduate students in the M.A. or Ph.D. degree programs, regardless of track, may select this 9-credit concentration.

Two courses, ANG 6197 (Public Archaeology, 3 cr.) and ANG 6115 Special Topics in Archaeology (when topic is Current Issues and Techniques in Cultural Resources Management, 3 cr.)

Third 3-credit class will be selected from the following options:

ANG 6448 Regional Problems in Urban Anthropology (when topic is Issues in Heritage Tourism, or other as approved by Graduate Director)
ANG 6115 Topics in Public Archaeology (when topic is Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods, or other as approved by Graduate Director)

Graduate class in Geographic Information Systems, whether offered in Anthropology or another department.

Graduate students pursuing a concentration in Cultural Resource Management must take the basic course requirements of their graduate program.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

AUDIOLOGY PROGRAM (POST-BACC)

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 35/36
Program Level: Masters
CIP Code: 51.0204
Dept Code: CSD
Program (Major/College): AUD AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication Science and Disorders

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program
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AUDIOLOGY PROGRAM

Doctor of Audiology (Au.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 1
Fall Admission Only

Minimum Total Hours: 126
Program Level: Doctoral/Professional

CIP Code: 51.0202
Dept Code: CSD
Program (Major/College): AYD AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication Science and Disorders

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Au.D. is a four-year post-baccalaureate professional degree. The primary objective is to produce audiologists who are competent to perform the wide array of diagnostic, remedial, and other services associated with the practice of Audiology and who meet the new standards as mandated by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; the Council on Academic Accreditation of the American Speech-language-Hearing Association.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Three (3) three letters of recommendation
2. A 1-2 page letter of intent
3. GRE scores at or above the 33rd percentile on both Verbal and Quantitative sections. GRE writing score of 4.0 or better
4. GPA greater than or equal to 3.0 for last 60 hours of baccalaureate degree
5. Demonstration of competency in communication skills as determined by the chairperson or delegate.

DEGREE PROGRAM REQUIREMENTS

General University requirements for graduate work must be fulfilled and a minimum of 126 hours of regularly scheduled academic course work at the graduate level. In addition, students will enroll in sufficient graduate clinical practicum to meet competencies set by the American Speech-Language-Hearing Association. Also required for graduation are the attainment of a "B" or better in each graduate Audiology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of annual comprehensive didactic and clinical oral examinations and a national examination in the speciality of Audiology, and successful completion of an audiology doctoral project. A student with a bachelor's degree and appropriate prerequisites may enter the four-year post-baccalaureate program. A student with a master's degree, State License in Audiology or the Certificate of Clinical Competence in Audiology (CCC-A) may be admitted into an individualized program of study.

Audiology Science Core (17)
SPA 6571 Clinical Pract. Issues (2)
SPA 5303 Auditory Anatomy & Physiology (3)
SPA 5120 Psychoacoustics (3)
SPA 5132 Audiology Instrumentation (3)
SPA 5506 Math & Physics for Speech & Hearing (3)
SPA 6805 Research Procedures (3)

Audiology Practice Core (47)
SPA 5328 Audiological Rehabilitation (3)
SPA 6318 Medical Audiology (3)
SPA 6340 Principles of Amplification I (3)
SPA 6341 Principles of Amplification II (3)
SPA 6128 Speech Percep & Hearing Loss (3)
SPA 6305 Pediatric Audiology (3)
SPA 6314 Electrophysiology (3)
SPA 6316 Vestibular Eval & Treatment (3)
SPA 6360 Audiology Bus & Practice Mngmnt (3)
SPA 6354 Hearing Conservation (3)
SPA 7931 Cochlear Implants (3)
SPA 7931 Advanced Sensory Aids (3)
SPA 7931 Advanced Electrophysiology (3)
SPA 7931 Lifespan Issues in the Hearing Impaired (3)

SPA 5506 Advanced Vestibular Seminar (2)
SPA 7931 Seminar: Adv. Medical Audiology (3)

Practical Experience (53)
SPA 5506 Clinical Lab I (4)
SPA 5506 Clinical Lab II (4)
SPA 6505 Audiological Screening DX I (1)
SPA 6505 Aural Rehab for Audiology (1)
SPA 6505 Cerumen Management (1)
SPA 6505 Clinic I (6)
SPA 6505 Clinic II (6)
SPA 6505 Clinic III (6)
SPA 6505 Clerkship I (3)
SPA 6505 Clerkship II (3)
SPA 6505 Clerkship III (3)
SPA 6505 Externship I (6)
SPA 6505 Externship II (6)
SPA 6505 Externship III (6)

Audiology Doctoral Project (9 minimum)
SPA 6930 Directed Research (6 minimum)
SPA 7931 Audiology Doctoral Project Seminar (3 minimum)

Annual Examination
Students in Audiology will be evaluated at the end of each year of coursework. The purpose of these examinations is twofold: 1) Determine eligibility for continuation in academic coursework and practical experiences; and 2) Determine areas of weakness that will require remediation. Individualized remediation programs will be designed, if needed, by the student under the supervision of the Audiology faculty and may include the completion of additional written papers, projects, and/or additional course work.

Audiology Doctoral Project
The major goal of the Audiology Doctoral Project (GDP) is master of the problem-solving process and the resulting improvement in the students' work/clinical setting. It is expected that the ADP will reflect information gained from the study areas and will be drawn from students' clinical specialty areas. This project is meant to be a "practical" experience, one that the student will make pertinent to the particular setting and meaningful in the student's professional development. The problem(s) that are selected for the ADP must relate to the area of professional or clinical specialization as well as work site. Starting in the Summer of the third year, the student must be continuously registered for the ADP Seminar. It is expected that all students will complete the ADP experience before the end of the third year of study. The ADP must be completed and defended prior to graduation.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

AUDIOLOGY / COMMUNICATION SCIENCES AND DISORDERS DUAL DEGREE PROGRAM

Doctor of Audiology (Au.D.) Degree
Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 1
Fall Admission Only

Minimum Total Hours: 120+
Program Level: Doctoral
CIP Code: 51.0202
Dept Code: CSD
Program (Major/College): AYD AS / CSD AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication Science and Disorders

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Au.D./Ph.D. Program is designed to offer a path for those interested in Clinical Research to earn both doctoral degrees within approximately six years. The primary objective is to produce research audiologists competent to perform the wide array of diagnostic, remedial and other services associated with the practice of audiology as well as conduct independent research in the area of hearing and balance disorders.

Accreditation:
The Au.D./Ph.D. programs are accredited by the Commission on Colleges of the Southern Association of College and Schools. The Au.D. program is also accredited by the Council on Academic Accreditation of the American Speech-language-Hearing Association.

Major Research areas:
Audiology, Hearing and Vestibular Science, Audiological Rehabilitation, Cochlear Implants, Auditory Processing, Speech Perception

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Three (3) three letters of recommendation
2. A 2-3 page letter of intent
3. GRE scores at or above the 50th percentile for the Verbal section or above the 30th percentile for the Quantitative Section, and equal to or above 4.5 for the writing section.
4. Demonstration of competency in communication skills as determined by the chairperson or delegate.

DEGREE PROGRAM REQUIREMENTS

Requirements for the Au.D./Ph.D. program are the same as the requirements for the individual degree programs (Au.D. and Ph.D.) with the following exceptions:

1. The Audiology Doctoral Project (ADP) and Associated coursework (SPA 6805 Research Procedures, SPA 6930 Directed Research, SPA 7931 Audiology Doctoral Project Seminar) that are required for the Au.D. Program are waived. This requirement will be met by one of the two Research Rotations required of Ph.D. Students.

2. The Au.D. Course focused on aspects of business related to managing a private practice (SPA 6360 Audiology Business and Practice Management) is not required of the Au.D./Ph.D. students.

3. Three courses are shared by the two programs: SPA 6930 Psychoacoustics, SPA 5303 Auditory Anatomy and Physiology, and SPA 6128 Speech Perception and Hearing Loss (Replaces SPA 7150 Advanced Speech Science)

4. The Concentration Area (12 credits) and Cognate Area (6 credits) requirements of the Ph.D. program are met by coursework already required for the Au.D. program: SPA 5132 Audiology Instrumentation, SPA 5506 Math and Physics for Speech and Hearing, SPA 5328 Audiological Rehabilitation, SPA 6345 Principles of Amplification I, SPA 6314 Electrophysiology, SPA 6354 Hearing Conservation

Course Requirements: See course listings for the Doctor of Audiology (Au.D.) and Doctor of Philosophy (Ph.D.) programs offered by the Department of Communication Sciences and Disorders. The credits required for the Au.D./Ph.D. program will constitute no less than 120 hours beyond the Bachelor's Degree irrespective of waived courses or course substitutions.
Courses: See http://www.ugs.usf.edu/sab/sabs.cfm

AURAL (RE)HABILITATION PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 1

Minimum Total Hours: 59/60
Program Level: Masters
CIP Code: 51.0204
Dept Code: CSD
Program (Major/College): ARH AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication Sciences and Disorders

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Masters of Science Degree in Aural Rehabilitation is designed to enable students to obtain certification as a Teacher of the Hearing Impaired (K-12).

ADMISSION REQUIREMENTS

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

(1) Three letters of recommendation
(2) GRE scores of 52nd percentile in Verbal or a 52nd percentile on Writing and a 32nd percentile on quantitative.
(3) GPA of 3.20 or higher in the last 60 hours of undergraduate coursework
(4) A letter of intent, and
(5) Applicant must also demonstrate competency in communication skills as determined by the chairperson or delegate.

DEGREE REQUIREMENTS

The M.S. program course of study in Aural Rehabilitation is currently under revision. Contact Dr. Kelly Crain for specific information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

BIOLOGY PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	January 1 for full consideration; however applications are accepted to March 15 (U.S. Applicants) January 1 (International)
Spring:	August 1 (U.S. Applicants) July 1 (International)

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 26.0101
Dept Code: BIO
Program (Major/College): BIO AS

Concentrations available in:
Conservation Biology (EBG), Coastal Marine Ecology (MBI), Cell and Molecular Biology (MBG)

CONTACT INFORMATION

College: Arts and Sciences
Department: Biology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Biology was among the first departments to offer the Ph.D. degree at the University of South Florida. Currently, the Department of Biology is composed of the Division of Cell Biology, Molecular Biology and Microbiology (CMM) and the Division of Integrated Biology (IB). The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department's cell molecular, microbiologists and ecologists are involved in cooperative research with their colleagues in Chemistry, Public Health, Nursing, and Medicine. Likewise, many of the Department's organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and Environmental Science. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

Students interested in attending graduate school should contact potential major professors to communicate their research ideas and establish that the professor will consider the student's application. The selection of a major professor includes acceptance of the student by the faculty member. Applicants should contact faculty conducting research in the student's area of interest well in advance of the application deadline.

For all master's students, the major professor and at least two additional faculty constitute the student's supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student's supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Divisional Graduate Director, Divisional Chairman, the College Dean and the Dean of the Graduate School must approve the Supervisory Committee. Once a major

professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for two (2) hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits.

A student must be registered for an appropriate load (in no case fewer than two [2] graduate hours) in the college for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below "B" in structured courses required by the advisory committee will be dropped from the program. Registration in courses entitled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student's research plan. Students may not register in Thesis: Master's or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master's or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: Cell Biology, Molecular Biology, Microbiology, Conservation Biology and Coastal Marine Biology

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1) Must have 3.00 GPA last 60 hours of B.S. degree

2) Must have 500V, 600Q, 4.5AW on GRE

3) All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.

4) Acceptance by a faculty member in the Biology Department is MANDATORY. We encourage students to contact faculty via email to indicate an interest in the research being conducted in their laboratory. We will make every effort to pair potential graduate students with appropriate faculty, however, your direct contact with individual faculty is recommended.

5) It is expected that candidates for the M.S./Ph.D. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.

Materials necessary for a complete application are listed below:

The following items should be submitted in the envelope provided to:

Biology Graduate Office
Attention: (Either Integrative Biology or CMM)
University of South Florida
4202 E. Fowler Ave – SCA110
Tampa, FL 33620-5150

1) Completed application form with a non-refundable $30 application fee. Send only checks or money order made payable to the "University of South Florida." The application and fee are valid for one year. Applications sent without the $30 application fee will not be processed. There are no waivers or deferments granted for this fee. PLACE CHECK IN THE ENVELOPE PROVIDED, SEAL ENVELOPE AND SIGN SEAL.

2) Two official transcripts in a sealed envelope from each post-secondary institution. Transcripts of work completed at USF will be secured by the Office of Admissions. Hence you need only to secure transcripts from other institutions for your application packet.

3) Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the enveope seal signed by the recommender. Students must also complete the enclosed **Student Recommendation Form** and submit it to the recommenders. If recommenders choose, they may send letters directly to the Office of Graduate Admissions.

4) A brief essay stating your intended field of research and professional goals. Please indicate your specific research interests, in order that we may refer your application to appropriate biology faculty members. In your essay please list 2-3 biology faculty members that you would like to have review your file. Acceptance into the biology graduate program requires the identification of specific faculty who are willing to direct your research.

5) **Application for teaching assistantship.** Failure to return this form will result in you not being considered for a teaching position. Please attach resume to **Teaching Assistant Application**.

OFFICIAL test scores must be sent to USF directly from the testing agency. The University of South Florida's 4-Digit Institution Code is: 5828

6) Official GRE scores. This exam must have been taken within the last five years. If you have confirmation from ETS that scores have been sent to

USF (USF must be listed), you may include a xerox copy of your confirmation notice in your application packet**.**

DEGREE PROGRAM REQUIREMENTS

The M.S. degree requires completion of
1. structured coursework
2. a research thesis or a review paper
3. passing a comprehensive examination.

The Master's Degree Requirements should be completed in two to three years. The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a five year period after matriculation. Master's students are encouraged to gain teaching experience in at least one undergraduate course in the department. Thesis research should be publishable and students are encouraged to publish their findings. Overall degree requirements for the Master of Science (M.S.) are as follows:

1) Credit hour requirement: a total of 30 semester hour credits beyond the Baccaleaureate Degree is required.

2) No minimum requirement for structured course work exists. The graduate student, major professor and student's graduate committee will establish the specific course requirement for each student.

3) A minimum of eight (8) thesis research credit hours is required.

4) Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director.

5) Successful completion of the oral examination. The exam should be taken at the end of the first year, or early in the second year of study. The examination is administered and evaluated by the student's graduate committee.

6) Seminar requirement: one presentation, excluding the thesis seminar and defense. Students should present posters or oral presentations based on their thesis research at national/regional professional meetings. The student's graduate committee must apprpove the presentation.

7) Submission of an acceptable thesis.

8) Presentation of the thesis seminar (BSC 6935) and successful defense of the thesis.

Non-Thesis - For students enrolled in the non-thesis program, a 30-hour minimum is required at the 5000-6000 level; 26 hours must be in formally structured courses, 16 hours must be at the 6000 level; 15 structured hours must be in Biology. A review paper of a topic approved by the supervisory committee is required.

Comprehensive Examination. A final comprehensive examination is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within five (5) years after matriculation.

All Master's Degree students must present a seminar to the Department of Biology and must be enrolled in BSC 6935, during the final semester. The seminar should be a concise summary of the research completed to satisfy the requirements for the M.S. Degree. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student's graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

BIOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall: January 1 for full consideration; however applications are accepted to March 15 (U.S. Applicants)
January 1 (International)

Spring: August 1 (U.S. Applicants)
July 1 (International)

Minimum Total Hours: **90**
Program Level: **Doctoral**
CIP Code: **26.0101**
Dept Code: **BIO**
Program (Major/College): **BIO AS**

Concentrations available in:
Conservation Biology (EBG), Coastal Marine Ecology (MBI), Cell and Molecular Biology (MBG)

CONTACT INFORMATION

College: Arts and Sciences
Department: Biology

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Department of Biology was among the first department to offer the Ph.D. degree at the University of South Florida. Currently, the Department of Biology is composed of the Division of Cell Biology, Molecular Biology and Microbiology (CMM) and the Division of Integrated Biology (IB). The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department's cell molecular and microbiologists are involved in cooperative research with their colleagues in Chemistry, Public Health, Nursing, and Medicine. Likewise, many of the Department's organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Geography, Marine Science, and Environmental Science. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

Students interested in attending graduate school should contact potential major professors to communicate their research ideas and establish that the professor will consider the student's application. The selection of a major professor includes acceptance of the student by the faculty member. Applicants should contact faculty conducting research in the student's area of interest and in advance of the application deadline.

For all master's students, the major professor and at least two additional faculty constitute the student's supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student's supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Divisional Graduate Director, Divisional Chairman, the College Dean and the Dean of the Graduate School must approve the Supervisory Committee. Once a major

professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for two (2) hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits.

A student must be registered for an appropriate load (in no case fewer than two [2] graduate hours) in the college for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below "B" in structured courses required by the advisory committee will be dropped from the program. Registration in courses entitled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student's research plan. Students may not register in Thesis: Master's or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master's or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: Cell Biology, Molecular Biology, Microbiology, Conservation Biology, and Coastal Marine Ecology

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1) Must have 3.00 GPA last 60 hours of B.S. degree

2) Must have 500V, 600Q, 4.5AW on GRE

3) All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.

4) Acceptance by a faculty member in the Biology Department is MANDATORY. We encourage students to contact faculty via email to indicate an interest in the research being conducted in their laboratory. We will make every effort to pair potential graduate students with appropriate faculty; however, your direct contact with individual faculty is recommended.

5) It is expected that candidates for the M.S./Ph.D. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.

Materials necessary for a complete application are listed below:

The following items should be submitted in the envelope provided to:

Biology Graduate Office
Attention: (Either Integrative Biology or CMM)
University of South Florida
4202 E. Fowler Ave – SCA110
Tampa, FL 33620-5150

1) Completed application form with a non-refundable $30 application fee. Send only checks or money order made payable to the "University of South Florida." The application and fee are valid for one year. Applications sent without the $30 application fee will not be processed. There are no waivers or deferments granted for this fee. PLACE CHECK IN THE ENVELOPE PROVIDED, SEAL ENVELOPE AND SIGN SEAL.

2) Two official transcripts in a sealed envelope from each post-secondary institution. Transcripts of work completed at USF will be secured by the Office of Admissions. Hence you need only to secure transcripts from other institutions for your application packet.

3) Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students must also complete the enclosed **Student Recommendation Form** and submit it to the recommenders. If recommenders choose, they may send letters directly to the Office of Graduate Admissions.

4) A brief essay stating your intended field of research and professional goals. Please indicate your specific research interests, in order that we may refer your application to appropriate biology faculty members. In your essay please list 2-3 biology faculty members that you would like to have review your file. Acceptance into the biology graduate program requires the identification of specific faculty who are willing to direct your research.

5) **Application for teaching assistantship.** Failure to return this form will result in you not being considered for a teaching position. Please attach resume to **Teaching Assistant Application**.

OFFICIAL test scores must be sent to USF directly from the testing agency. The University of South Florida's 4-Digit Institution Code is: 5828

6) Official GRE scores. This exam must have been taken within the last five years. If you have confirmation from ETS that scores have been sent to

USF (USF must be listed), you may include a xerox copy of your confirmation notice in your application packet**.**

DEGREE PROGRAM REQUIREMENTS

The Ph.D. degree requires completion of:

1. structured coursework
2. qualifying exam and Admission to Candidacy
3. Oral Defense and Dissertation

Coursework
A total of 90 credits beyond the baccalaureate must be earned: this includes any graduate credit earned prior to admission to the doctoral program. A minimum of three years of graduate work beyond the Baccalaureate Degree is required.

Twelve (12) hours of graduate work completed while a non-degree seeking student at this institution may be transferred to the doctoral program, with approval of the supervisory committee. At least one academic year of residence must be on the campus. A year of residence is enrollment in a minimum of nine (9) semester credits for two consecutive semesters.The direction and immediate supervision of graduate work for doctoral students resides with the major professor and student's graduate committee. Graduate students are not admitted unless a major professor has agreed to serve as the student's supervisor. The University imposes limitations on the time period between admission to candidacy and successful completion of degree requirements.

EDITOR'S NOTE: University policy for time limits may be viewed in the Degree Requirements Section of this catalog.

The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a seven year period after matriculation. Doctoral students are encouraged to gain teaching experience in at least two undergraduate courses in the department. Overall degree requirements for the Doctor of Philosophy are as follows:

1. Credit hour requirement: A total of 90 semester hour credits beyond the Baccalaureate degree is required.

2. No minimum requirement for structured coursework exists. The graduate student, major professor and graduate committee will establish the specific course requirement for each graduate student.

3. A minimum of twenty-four (24) dissertation research credit hours is required.

4. Submission of a doctoral proposal and approval by major professor, graduate committee, and graduate director

5. Successful completion of the preliminary doctoral examination. The exam consists of a written and oral portion, and is written and graded by the graduate committee

6. Presentation requirement: two presentations, excluding the doctoral seminar and defense. Students should present posters or oral presentations based on their dissertation research at national/regional professional meetings. The graduate committee must approve the presentation.

7. Publication requirement: one research paper must be submitted for publication to a refereed scientific journal by the date of the Doctoral Seminar and Defense. The paper may be sole or coauthored, but it must be based on the dissertation research. The graduate committee must approve the paper prior to submission.

8. Submission of an acceptable dissertation

9. Presentation of the doctoral seminar (BSC 7636) and successful defense of the dissertation.

Admission to Candidacy
The doctoral student is eligible for admission to candidacy after completing structured course requirements and passing the qualifying examination, upon recommendation of the supervisory committee and approval of the Dean of the College and the Dean of the Graduate School. Following admission to candidacy, a student must enroll in BSC 7980 when engaged in research, data collection, or writing activities relevant to the doctoral dissertation. Advisors should assign the number of credits in this course in accordance with the six credit hour policy and appropriate to the demands made on faculty, staff, and University facilities, but in no event will the total number of earned dissertation credits be fewer than 16. Students not admitted to candidacy are not eligible to enroll in BSC 7980.

Additional Requirements
Any graduate work counted toward fulfilling the requirements for the Ph.D. degree must be completed within seven (7) years after matriculation. A public seminar presenting the dissertation is required. A final oral examination administered and evaluated by the supervisory committee emphasizes the dissertation and the student's general field of research is also required. A doctoral student must enroll in BSC 7636 the semester that they are presenting their Ph.D. dissertation.

Doctoral Seminar and Defense.

All doctoral students must present a seminar to the Department of Biology and must be enrolled in BSC 7636, during the final semester. The seminar should be a concise summary of the research completed to satisfy the requirements for the Ph.D. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student's graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

CHEMISTRY PROGRAM (NON-THESIS OPTION)

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 1
Summer:	January 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 40.0501
Dept Code: CHM
Program (Major/College): CHA AS

Concentrations available in:
Analytical Chemistry, Biochemistry, Computational Chemistry, Environmental Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Polymer Chemistry

CONTACT INFORMATION

College: Arts and Sciences
Department: Chemistry

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
In addition to the five (5) traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, and Enzymology.

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Applicants must have earned a B or BS degree in Chemistry.* In addition, applicants must have

1. a combined score of 430V, 570Q, 3.0AW on the GRE. Subject exam is recommended, but not required.
2. a minimum of a 3.00 grade point average in the last two years of chemistry coursework
3. letters of recommendation from at least three or more people who know the student's academic background
4. and for applicants whose native language is not English, a minmum of 550 on the TOEFL exam and for such aplpicants a minmum of 50 on the TSE if also applying for an assistantship.

*Applicants with other degrees will be considered on a case by case basis.

International students follow USF International Admissions deadlines. Domestic students rolling admission.

DEGREE PROGRAM REQUIREMENTS

General Program Requirements
Graduate students must maintain an overall grade point average (GPA) of 3.00 (B) in all courses. Any graduate student who falls below a 3.00 GPA at the end of any

given semester will be placed on academic probation and has the next two semesters (excluding summers) to remedy the situation before being dismissed from the program. No grade below "C" will be accepted toward a graduate degree, but will be used in the computation of the overall GPA.

Enforcement of Minimum Standards
The Graduate Council shall be responsible for ensuring that all graduate students meet the minimum standards as set down in the Graduate Student Handbook. The Graduate Coordinator will periodically review the standing of each student with regard to grade point average (GPA), academic progress, and (in the case of teaching assistants) teaching performance and notify the Graduate Council as necessary. Should disciplinary action appear in order, the student's major professor will be consulted (in order to obtain as many relevant facts as possible) before such action is taken.

Probation
Students who fail to meet the minimum GPA (3.00 for all graduate courses) shall be placed on probation. The student's GPA must meet the minimum of 3.00 by the end of the semester in which probation was initiated or termination from the graduate program will result.

Appeals
In actions based on departmental requirements, petitions and appeals shall be directed to the Chemistry Graduate Council through the student's major professor. (In case of a student who has not yet selected a major professor, the appeal may be carried out through the Graduate Coordinator or through some other chemistry faculty member selected by the student.) Unsuccessful appeals to the Chemistry Graduate Council may be further carried to the chemistry faculty as a whole, and from there to the Dean of the College and then to the University Graduate Council if necessary.

Minimum Grades in Courses
Although all grades in graduate level courses will be used in computing the student's GPA, no grade below "C" may be counted toward fulfillment of the approved course of study. Consequently, any such course in which a student receives a grade below "C" must be repeated, or have the requirement waived by the Supervisory Committee. A student who receives three grades lower than a "B" in structured courses required by his supervisory committee to meet the structured course requirement will be dropped from the program. A student who receives a grade of "U" while a chemistry graduate student will be placed on automatic probation. A second "U" grade is grounds for termination from the Program, and the Chemistry Graduate Council will automatically review the student's status. Students on probation are not excluded from having a teaching assistantships during the probationary semester.

Seminars
All chemistry graduate students must satisfy the following minimum requirements for CHM 6935:

- enrollment every semester of the regular academic year during his/her career as a graduate student, or

- enrollment in seven (7) credit hours for the Ph.D.; four (4) credit hours for the Master's degree. A maximum of two unexcused absences will be permitted each semester, whichever is lessUnder exceptional circumstances, students may petition for a waiver on a semester-by-semester basis if employment or other obligations conflict with the requirement.

Master's Degree General Requirements
Students must meet all degree requirements as specified by the Graduate School. Study for the M.A and the M.S. should take between two and three calendar years beyond the baccalaureate degree to complete. Specific requirements include:a minimum of thirty (30) credit hours beyond the baccalaureate degree; sixteen (16) hours must be at the 6000 level.

M.A. in Chemistry (Non-Thesis Option)
Program Requirements

a) 26 hours must be in formally structured courses approved by the student's committee.

b) Preparation of a review paper on a topic approved by the supervisory committee. The final paper must be approved by the supervisory committee.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

CHEMISTRY PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 1
Summer:	January 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 40.0501
Dept Code: CHM
Program (Major/College): CHM AS

Concentrations available in:
Analytical Chemistry (ACH), Biochemistry (BCH), Computational Chemistry (CPC), Environmental Chemistry (EVC), Inorganic Chemistry (IOG), Organic Chemistry (OCH), Physical Chemistry (PCH), Polymer Chemistry (POC)

Also offered as a 5-year Program

CONTACT INFORMATION

College: Arts and Sciences
Department: Chemistry

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
In addition to the five (5) traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, Enzymology, Materials Chemistry and Chemical Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Applicants must have earned a B.A. or BS degree in Chemistry.* In addition, applicants must have

1. official transcripts
2. a GRE score of 430V, 570Q, 3.0 AW The subject exam is recommended, but not required.
3. a minimum of a 3.00 grade point average in the last two years of chemistry coursework
4. letters of recommendation from at least three or more people who know the student's academic background
5. and for applicants whose native language is not English, a minmum of 550 on the TOEFL exam and for such aplpicants a minmum of 50 on the TSE if also applying for an assistantship.

*Applicants with other degrees will be considered on a case by case basis.

International students follow USF International Admissions deadlines. Domestic students rolling admission.

DEGREE PROGRAM REQUIREMENTS

General Program Requirements
Graduate students must maintain an overall grade point average (GPA) of 3.0 (B) in all courses. Any graduate student who falls below a 3.0 GPA at the end of any given semester will be placed on academic probation and has the next two semesters (excluding summers) to remedy the situation before being dismissed from the program. No grade below "C" will be accepted toward a graduate degree, but will be used in the computation of the overall GPA.

Enforcement of Minimum Standards
The Graduate Council shall be responsible for ensuring that all graduate students meet the minimum standards as set down in the Graduate Student Handbook. The Graduate Coordinator will periodically review the standing of each student with regard to grade point average (GPA), academic progress, and (in the case of teaching assistants) teaching performance and notify the Graduate Council as necessary. Should disciplinary action appear in order, the student's major professor will be consulted (in order to obtain as many relevant facts as possible) before such action is taken.

Probation
Students who fail to meet the minimum GPA (3.0 for all graduate courses) shall be placed on probation. The student's GPA must meet the minimum of 3.0 by the end of the semester in which probation was initiated or termination from the graduate program will result.

Appeals
In actions based on departmental requirements, petitions and appeals shall be directed to the Chemistry Graduate Council through the student's major professor. (In case of a student who has not yet selected a major professor, the appeal may be carried out through the Graduate Coordinator or through some other chemistry faculty member selected by the student.) Unsuccessful appeals to the Chemistry Graduate Council may be further carried to the chemistry faculty as a whole, and from there to the Dean of the College and then to the University Graduate Council if necessary.

Minimum Grades in Courses
Although all grades in graduate level courses will be used in computing the student's GPA, no grade below "C" may be counted toward fulfillment of the approved course of study. Consequently, any such course in which a student receives a grade below "C" must be repeated, or have the requirement waived by the Supervisory Committee. A student who receives three grades lower than a "B" in structured courses required by his supervisory committee to meet the structured course requirement will be dropped from the program. A student who receives a grade of "U" while a chemistry graduate student will be placed on automatic probation. A second "U" grade is grounds for termination from the Program, and the Chemistry Graduate Council will automatically review the student's status. Students on probation are not excluded from having a teaching assistantships during the probationary semester.

Seminars
All chemistry graduate students must satisfy the following minimum requirements for CHM 6935: enrollment every semester of the regular academic year during his/her career as a graduate student, or enrollment in seven (7) credit hours for the Ph.D.; four (4) credit hours for the Master's degree. A maximum of two unexcused absences will be permitted each semester, whichever is less. Under exceptional circumstances, students may petition for a waiver on a semester-by-semester basis if employment or other obligations conflict with the requirement.

Master's Degree General Requirements
Students must meet all degree requirements as specified by the Graduate School. Study for the M.A and the M.S. should take between two and three calendar years beyond the baccalaureate degree to complete. Specific requirements include:a minimum of thirty (30) credit hours beyond the baccalaureate degree; sixteen (16) hours must be at the 6000 level.

Program Requirements
a) 20 hours of formally structured courses approved by the student's committee
b) a research project resulting in a written thesis
c) an oral thesis defense, which will serve as the final comprehensive examination required by the Graduate School

A graduate student working on a master's degree in a program that requires a thesis must register in course CHM 6973 or CHM 6971 when engaged in research, data collection, or writing activities relevant to the master's thesis. The number of credits in these courses must be appropriate to the demands made on faculty, staff, and university facilities. *Editor's note: for information on the University's enrollment policy relevant to a thesis, refer to the enrollment section of the Academic Policies in this catalog.*

Final Thesis Defense
Each student should consult with their supervisory committee for deadlines in submitting the thesis prior to the defense. Thesis or dissertation defense are not normally scheduled during final exam week or during the weeks between regularly scheduled sessions.The thesis defense must be scheduled through the Chemistry Graduate Office at least two weeks in advance. The Chemistry Graduate Office will then announce the defense to the entire Chemistry Department. The candidate normally defends their thesis in the fourth or fifth year. *EDITOR'S NOTE: these deadlines are in addition to those imposed by the Graduate School. The Graduate School sets deadlines pertaining to thesis/dissertations each semester.*

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

CHEMISTRY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 1
Summer:	January 1

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 40.0501
Dept Code: CHM
Program (Major/College): CHM AS

Concentrations available in:
Analytical Chemistry (ACH), Biochemistry (BCH), Computational Chemistry (CPC), Environmental Chemistry (EVC), Inorganic Chemistry (IOG), Organic Chemistry (OCH), Physical Chemistry (PCH), Polymer Chemistry (POC)

CONTACT INFORMATION

College: Arts and Sciences
Department: Chemistry

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
In addition to the 5 traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, and Enzymology.

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual

needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Applicants must have earned a B.A. or BS degree in Chemistry. Applicants with other degrees will be considered on a case by case basis. In addition, applicants must have

1. official transcripts
2. a GRE score of 430V, 570Q, 3.0 AW. The subject exam is recommended, but not required
3. a minimum of a 3.00 grade point average in the last two years of chemistry coursework
4. letters of recommendation from at least three or more people who know the student's academic background

5. and for applicants whose native language is not English, a minmum of 550 on the TOEFL exam and for such aplpicants a minmum of 50 on the TSE if also applying for an assistantship.

International students follow USF International Admissions deadlines. Domestic students rolling admission.

DEGREE PROGRAM REQUIREMENTS

Students with only a Bachelors degree must take 4 ACS entrance exam (with an option to take Biochemistry or Analytical and a requirement to take core exams in Organic, Inorganic, and Physical Chemistry). They must obtain at least the national median ACS score in the required core exams to pass. If they fail, they have the option to retake the exam or remediate the deficiency by obtaining at least B (not a B-) in one of our upper-division undergraduate courses (or by taking the exams in the appropriate course and obtaining the equivalent grade) in the area of the deficiency before their candidacy exam.

Students with a Masters degree may be required to adhere to the policy at the discretion of the Graduate Council at the time of acceptance. Entering students will have a Promotion to Candidacy Committee established upon entering the Ph.D. Program. The Committee advises students as to what courses they need to take in their first semester. There are no set course requirements, but the decision of the Committee is binding. Students will normally be expected to take the first semester of the first year covering "Tools of Research," including literature search and analysis, proposal writing, oral presentation skills, and laboratory instrumental techniques. The second semester of the course may be required by a student's promotion to Candidacy committee. Advanced courses in other subject areas may be assigned by the Committee, where appropriate. Final coursework decisions are made by the candidate's research advisor.

Advisor Selection
Students need to choose a pre-Ph.D. candidate research adviser by the beginning of the second semester to begin pre-candidate research in that laboratory (See below). The student will then proceed to initiate a research project by the beginning of the second semester and through the first summer of study.

Selection of a research advisor is one of the most important decisions a student will make during the graduate career. In order to avoid hasty or poorly founded decisions each student must discuss potential research projects with at least three members of the chemistry faculty. Appropriate forms can be obtained from the Chemistry Graduate Office and should be completed and returned no later than the end of the second semester (excluding summer semester) after entering the program.

Promotion to Candidacy
At the conclusion of the first year (before the start of the third semester), a written research document outlining progress to date and future plans is submitted to and approved by the Promotion to candidacy Committee. This proposal is subsequently defended in front of the committee. A successful defense results in Promotion to Ph.D. Candidacy, contingent upon the student being formally accepted into a research group. The committee must vote three quarters in favor of the candidate (for a four person committee) or two thirds in favor (for a three person committee) for a pass. A vote of two or four members (or one of three) in favor results in a conditional pass, and the committee must set conditions to be met to promote the student within 30 days of the first meeting. At the discretion of the committee, the student not promoted to candidacy may be given a pass at a JM.A. level of competency and proceed to obtain a terminal research master's degree or be terminated from the program. Appropriate forms to document promotion to candidacy must be completed and forwarded to the Graduate School. The forms may be obtained from the Chemistry Graduate Office.

Dissertation Committee
Upon promotion the candidate must formally choose and declare a research adviser and a dissertation committee must be established initially with at least three members. An additional committee member from outside the department or university must be added before the final defense. The research advisor chairs the committee.

Original Research Proposal
An original research proposal must be written and defended by the end of the first semester of the third year. At the discretion of the research adviser, the student's original research proposal may or may not be related to the student's current or future research. The student must be informed of the research adviser's preference in advance of seeking approval for the thesis topic. The dissertation committee formally approves the proposal and its defense. The candidate should meet with the dissertation committee members (individually or as a group) to discuss the proposal topic. The original research proposal should follow the format of a major federal granting agency appropriate to the nature of the proposed research. The format of the proposal, in conjunction wit the topic, should be approved in advance by the dissertation committee. The written proposal must be given to the dissertation committee members two weeks in advance of the scheduled defense. After the defense, the committee must vote three quarters in favor of the candidate (for a four person committee) or two thirds in favor (for a three person committee) for a pass. A vote of two of four members (or one of three) in favor results in a conditional pass, and the committee must set conditions to be met to pass the candidate within 30 days of the first meeting. Students not passing will normally be terminated from the Ph.D. program.

Research Data Presentation and Dissertation
By the end of the fourth year, a research data presentation must be made to dissertation committee and the committee formally advises the candidate on research milestones that need to be met before permission to "write up" the dissertation is granted. The permission to "write up" the dissertation can be given at any subsequent time. A peer-reviewed publication based upon the dissertation research is required to obtain the degree of Ph.D. Note: Extenuating circumstances will be reviewed on a cases-by-case basis.

Further, studetns have to wait a minimum of 6 months after successful completion of the Research Data Presentation (aka Data Defense) (and the associated online data base forms) before they will be permitted to defend their dissertation. This rule can only be waived by the Department Chair with the written approval of the majority of the Thesis Committee in the case of exceptional circumstances.

Final Dissertation Defense
Each student should consult with their supervisory committee for deadlines in submitting the dissertation prior to the defense. Thesis or dissertation defense are not normally scheduled during final exam week or during the weeks between regularly scheduled sessions.The dissertation defense must be scheduled through the Chemistry Graduate Office at least two weeks in advance. The Chemistry Graduate Office will then announce the defense to the entire Chemistry Department. The candidate normally defends their dissertation in the fourth or fifth year.

NOTE: these deadlines are in addition to those imposed by the Graduate School. The Graduate School sets deadlines pertaining to thesis/dissertations each semester.

Candidates may be offered a departmental TA position in year five given satisfactory progress in research as judged by the dissertation committee and approval of the Department Chair, TA's are not normally awarded beyond year 5. RA's are only permitted beyond year six in exceptional cases with the written approval of the department chair. It is important to note that the Graduate School will not award tuition waivers for credit hours beyond 120 for students entering with a baccalaureate degree and 90 for students entering with a master's degree.

Supervisory Committees
The M.S. and M.A. supervisory committee should consist of at least three members including the major professor, and two other chemistry faculty members, at least one of whom is outside the student's major area (analytical, biochemistry, etc.)According to University Regulations, the Ph.D. supervisory committee must consist of at least four (4) members, including the student's research director. At least two (2) of the members must be from an area related to the student's research.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

CLASSICS: LATIN/GREEK PROGRAM

Co-Op with University of Florida
Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Application is made through University of Florida

Minimum Total Hours: n/a
Program Level: Masters
CIP Code: 16.1200
Dept Code: WLE
Program (Major/College): CLS AS

CONTACT INFORMATION

College: Arts and Sciences
Department: World Language Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Joint Co-op program with University of Florida

Accreditation: Contact Program for information.

ADMISSION INFORMATION

Admission through the University of Florida.

DEGREE PROGRAM REQUIREMENTS

Check with Program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

COMMUNICATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: November 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 23.1001
Dept Code: SPE
Program (Major/College): SPE AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Communication offers a broad and integrated approach to communication studies that embraces the traditions of the humanities, the convergence of rhetorical and communication theory, and the relations among aesthetic, humanistic, and scientific approaches to inquiry. Students are encouraged to examine the pragmatics of rhetorical and communication theory in such settings as business and industry, government, education, medicine and health care, media, the arts, and the family. The department offers course work leading to the Master of Arts degree and the Doctor of Philosophy.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university requirements, plus two letters of recommendation; a writing sample, and a statement of interest. GRE is required, with at least 500V or other strong evidence of writing skills.

DEGREE PROGRAM REQUIREMENTS

Core Requirements (3 hours)
COM 6001 (3)
This course must be taken the first time it is offered after the student is admitted to the graduate program.

Thesis Program (36 hours) - In addition to the three (3) hours of core requirements, each student must also take COM 7325 and complete 24 hours of elective course work, three (3) hours of which may consist of a course or courses from other departments within this or other universities, and must have advisor approval. Each student must complete at least six (6) hours of thesis credit (SPC 6971) and submit an approved thesis.

Non-Thesis Program (36 hours) - In addition to the three (3) hours of core requirements, 33 hours of elective course work are required, nine (9) of which may be taken as a cognate area of study pending advisor approval and an approved plan of study.

Comprehensive Examinations - All students must pass both written and oral comprehensive examinations.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

COMMUNICATION PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admission only.

Minimum Total Hours: 90/60
Program Level: Masters
CIP Code: 23.1001
Dept Code: SPE
Program (Major/College): SPE AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Department of Communication offers a broad and integrated approach to communication studies that embraces the traditions of the humanities, the convergence of rhetorical and communication theory, and the relations among aesthetic, humanistic, and scientific approaches to inquiry. Students are encouraged to examine the pragmatics of rhetorical and communication theory in such settings as business and industry, government, education, medicine and health care, media, the arts, and the family. The department offers course work leading to the Master of Arts degree and the Doctor of Philosophy.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as university requirements, plus two letters of recommendation; a writing sample, and a statement of interest. GRE is required with at least 500V or other strong evidence of writing skills.

DEGREE PROGRAM REQUIREMENTS

Core Requirements (6 hours)
COM 6001 (3) COM 7325 (3)

In addition to the six (6) hours of core requirements, students are required to take a minimum of 39 hours of coursework beyond the M.A. degree (not counting credits for dissertation research). Completion of the Ph.D. program in Communication normally requires a minimum of three years with at least one year in continuous full-time residence. To qualify for graduation from the Ph.D. program in Communication, a student must complete the following:

1) Establish a supervisory faculty committee approved by the Director of Graduate Studies and the Dean of the Graduate School.

2) Prepare a Plan of Study approved by the student's supervisory committee. The Plan of Study expresses the ways in which the student will show evidence of the following:
   a) expertise in one of the central domains of communication study;
   b) expertise in the research methodologies needed to carry out original research in the specialized area of concentration and;
   c) 6 hours of coursework in an area of study outside the department.

3) Pass a written qualifying examination covering the student's area of specialization and methodological competence by the end of coursework. This examination will be prepared and evaluated by the student's supervisory committee.

4) Complete and defend a dissertation approved by the student's dissertation committee that must include at least one member of the graduate faculty outside the Department.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

COMMUNICATION SCIENCES AND DISORDERS PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: December 1
Spring: April 1

Minimum Total Hours: 55
Program Level: Doctoral
CIP Code: 51.0204
Dept Code: CSD
Program (Major/College): CSD AS

Concentrations available in:
Hearing Sciences and Audiology (HAS)
Neurocommunicative Sciences (NCS)
Speech-Language Sciences (SLS)

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication Sciences and Disorders

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Department of Communication Sciences and Disorders provides disciplinary and interdisciplinary education to prepare resesarch scientists capable of addressing both theoretical and applied issues in laboratory, clinical, and classroom settings. Academic preparation emphasizes basic and advanced study in the communicative sciences, interdisciplinary study, and extensive research preparation.. The program of study is tailored to meet individual interest areas. The overall aim of the doctoral program is to produce graduates who excel in meeting the rigorous demands of an academic/research career.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Speech-Language Sciences: Speech perception and production processes, speech perception by normal hearing listeners and listeners with hearing loss, non-native speech, language development in at-risk populations, linguistic and discourse correlates for reading, writing, and spelling, second language learning and literacy learning, and language variation and multiculturalism; *Hearing Sciences and Audiology*: Aural rehabilitation, psychoacoustics, aging, temporal processing, speech perception by impaired listeners, auditory evoked potentials, and otoacoustic emissions; *Neurocommunicative Sciences:* aphasia, apraxia, cognitive/linguistic processing in normal aging and adults with neurological disorders, and dysarthria.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as university plus three letters of recommendation, a letter of intent, and GRE must be within the last 5 years with a score of 50th percentile verbal, 30th percentile Quantitative, 50th percentile Writing.

DEGREE PROGRAM REQUIREMENTS

Students complete required and elective coursework in the following areas:

1. Research and tools of research	15 credits min.
2. Core content	12 credits min.
3. Concentration/specialized study	12 credits min.
4. Doctoral seminar	4 credits min.*
5. Dissertation	12-24 credits**

In certain cases, with approval of the Major Advisor and Program director, previously completed graduate level coursework may be applied towards requirements in the Core content or Specialized Study areas.

Completion of the Ph.D. in Communication Sciences and Disorders normally requires a minimum of four years of study. In addition to specific degree requirements, a student must complete the following to qualify for graduation:

1. Satisfactory completion of two one-semester research rotations with one rotation in the

student's primary area of interest and a second rotation in a different research area.

2. With the supervision of a qualifying committee, pass a written qualifying examination that evaluates the student's speciality knowledge and methodological competence. At the discretion of the qualifying committee an oral examination may follow the written examination.

3. Establish a doctoral committee prior to admission into doctoral candidacy.

4. Prepare and defend a dissertation proposal.

5. Following completion of the dissertation research, successfully defend the work before the dissertation committeee.

Departmental policy specifies that any student earning a C+ or less in two courses will be recommended for dismissal from the Ph.D. program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CRIMINAL JUSTICE ADMINISTRATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines: open

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 43.0103
Dept Code: CJP
Program (Major/College): CJA AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Criminology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. in Criminal Justice Administration is a specialized and concentrated program of study designed specifically for practitioners and those whoe desire is to complete an M.A. with a special emphasis on administration and management within the criminal justice system. Generally it targets individuals who do not anticipate continuing on to the doctoral studies. It is a concentrated weekend, cohort-based program leading to the M.A. in five consecutive semesters. Classes are held on weekends, meet for one day, and run seven weeks back-to-back. The program is modeled after a typical executive MBA program for working professioanls. Admission criteria for the CJA program is the same as for the general M.A.

This is a cohort based model. This degree concentrates on issues related to the organization and operation of criminal justice agencies and related organizations.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Students are required to have:

1. A bachelor's degree from a regionally accredited university or college
2. A minimum undergraduate GPA of 3.00
3. Two letters of recommendation attesting to the applicant's abilities to succeed at the graduate level
4. A statement of purpose addressing the motivations to attain a graduate diploma and the intention to apply the diploma to a specific set of purposes

In addition, a writing sample providing evidence of the candidates scholarly abilities and three letters of reference speaking to the applicants academic capabilities.

DEGREE PROGRAM REQUIREMENTS

Coursework Requirements (33 hrs. total)

CCJ 6936(3) Current Issues in Law Enforcement
CCJ 6605(4) Theoretical Approaches to Criminal Behavior
CCJ 6705(4) Research Methods in Criminology
CCJ 6935(9) Topics in Criminology and Criminal Justices
CCJ 6706(4) Quantitative Analysis I
CCJ 6406(3) Theory, Practice, and Research in Law Enforcement

Additionally two courses (6 credit hours) in public administration at the 6000 level are required. The department recommends PAD 6041 (3) PAD 6934 (3) or similar courses in PAD approved by the CJA Program Director in coordination with the Public Administration Program.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

CRIMINOLOGY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: September 30

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 45.0401
Dept Code: CJP
Program (Major/College): CCJ AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Criminology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. in Criminology is a two-year program designed to provide the student with an in depth understanding of the major ideas, issues, theories, and research comprising the field of Criminology and Criminal Justice.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. A bachelor's degree from a regionally accredited university or college
2. An upper division GPA of 3.00 or 430V, 470Q, 4.0 A.W. on the GRE
3. Statement of purpose detailing reasons for seeking graduate degree in Criminology, future career plans, and research interest
4. A writing sample providing evidence of candidate's scholarly abilities
5. Three letters of reference speaking to the applicant's academic capabilities

DEGREE PROGRAM REQUIREMENTS

All course work counted toward the degree must have the prior approval of the Graduate Program Director of the Department of Criminology. Such work may include up to six (6) hours outside the department.

Thesis Option
33 hours of CCJ course work, which must include:

CCJ 6605(4)Theoretical Approaches to Criminal Behavior
CCJ 6705(4) Research Methods in Criminology
CCJ 6706(4) Quantitative Analysis I
CCJ 6707(4) Quantitative Analysis II
CCJ 6050(2) ProSeminar in Criminology **(taken twice for 1 hour each)
CCJ 6971(6) Thesis Hours
Electives (9)

The thesis will consist of research that makes an original contribution to the scholarly literature and may be of either a quantitative or qualitative nature. An oral defense of the thesis is required after the final draft of the thesis has been accepted by the candidate's supervisory committee.

Non-Thesis: Comprehensive Examination Option
33 hours of course work, which must include:

CCJ 6605(4) Theoretical Approaches to Criminal Behavior
CCJ 6705(4) Research Methods in Criminology
CCJ 6706(4) Quantitative Analysis I
CCJ 6707(4) Quantitative Analysis II
CCJ 6050(2) ProSeminar in Criminology ** (taken twice for 1 hour each)
CCJ 6905 (3)
Electives (12)
** Should be taken during the first two semesters of the program.
The non-thesis comprehensive examination option is intended primarily for students who do not intend to continue their graduate education beyond the M.A. degree.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

CRIMINOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 15

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 45.0401
Dept Code: CJP
Program (Major/College): CCJ AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Criminology

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ph.D. is a research degree granted in recognition of high achievement in criminology. This achievement requires accomplishments beyond the completion of coursework that demonstrate the ability to work independently and contribute to criminological knowledge.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1) A bachelor's degree from a regionally accredited institution and a GPA of at least 3.00; or a master's degree from a regionally accredited institution and a GPA of at least 3.40 or better (on a 4.00 scale) during their graduate study.

2) A score of 430V, 470Q, 4.0AW or higher on the Graduate Record Exam (GRE) within the preceding five (5) years

3) Three (3) letters of recommendation speaking to the applicants academic capabilities

4) A candidate's statement detailing
   a) reasons for seeking admission for a Ph.D. degree in criminology
   b) future career plans and
   c) research interests

5) a writing sample providing evidence of the candidates scholarly abilities. For persons with an M.A./M.S., evidence of completed master's thesis or Master's area paper, as well as a sample chapter from the thesis/area paper.

6) Students are admitted to the Ph.D. program once each year and begin their course of study with the start of the regular academic year each August (Fall semester).

DEGREE PROGRAM REQUIREMENTS

A total of 90 hours beyond the B.A./B.S., of which a minimum of 57* hours must be completed at USF. The 90 hours required for the Ph.D. are as follows:

1. 21 core hours CCJ 6050 (2) CCJ 6605 (4) CCJ 6705(4), CCJ 6706(4) CCJ 6707 (4), and CCJ 6708 (3);

2. 36 elective hours, 9 of which must be in an area outside the department;

3. 6 hours meeting the Research Tool Requirement (see below);

4. 24 dissertation hours.

(*Contact the Program Director to determine the minimum number of hours needed in you individual case.)

In addition to successfully completing these requirements, students are required to pass two doctoral comprehensive examinations, complete residency requirements (nine [9] hours each in the fall and spring), and write and defend a dissertation prospectus and dissertation.

Tool Requirement
In order to satisfy the department's research tool requirement, students in criminology must complete either a foreign language competency examination, or two of the following three courses (CCJ 6708, CCJ 6709, CCJ 6716).

Comprehensive Examinations
Students take two comprehensive examinations:

(1) general comprehensive, and
(2) specialty comprehensive.

The general comprehensive is an in-class or take-home examination that assesses the student's ability to employ theory, research methods, and statistical analysis. The specialty comprehensive is constructed by the student's doctoral committee, and may include in-class, written take-home, written research, or oral examination formats.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

ENGLISH PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 1 (Literature, Rhetoric and Composition)
January 15 (Creative Writing)

Minimum Total Hours: 30-36
Program Level: Masters
CIP Code: 23.0101
Dept Code: ENG
Program (Major/College): ENG AS

Concentrations available in:
Literature (LIT), Rhetoric and Composition (RAC), Creative Writing (CRW)

CONTACT INFORMATION

College: Arts and Sciences
Department: English

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. in English with a concentration in Literature is designed primarily to train advanced students of literature. The program requires study of both literature and composition. The M.A. in English with a concentration in Rhetoric and Composition is designed primarily to train advanced students of literature and rhetoric. The M.A. in English with a concentration in Creative Writing is designed primarily to train advanced students of fiction and poetry writing.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Literature:
1. BA in English
2. GRE general exam: 600V, 4.0 AW
3. undergraduate major GPA 3.50, 3.30 last 2 years
4. three (3) letters of recommendation
5. a two-to-three page personal statement describing the student's background, purpose for attending graduate school, and career goals.

Rhetoric and Composition:
1. BA in English
2. GRE general exam: 600V, 4.0AW
3. undergraduate major GPA 3.5, 3.3 last 2 years
4. three (3) letters of recommendation
5. a two-to-three page personal statement describing the student's background, purpose for attending graduate school, and career goals.

Creative Writing:
1. BA in English
2. GRE general exam: 600V, 4.0AW
3. 3.50 major GPA 3.30 last two years
4. three (3) letters of recommendation
5. a two-to-three page personal statement describing the student's background, purpose for attending graduate school, and career goals.
6. a writing sample consisting of either 12-20 pages of double-spaced fiction or 10-15 pages of single-spaced poetry

DEGREE PROGRAM REQUIREMENTS

Program of Study 33 Credit Hours
ENG 6009 (3) (this should be taken early in the sequence)
LAE 6375 (3)

Concentration Courses
Literature
ENG 6018 (3)
ENG 6019 (3)

Two of the following: ENL 6206 (3) ENL 6216 (3) ENL 6226 (3) ENL 6228 (3) ENL 6236 (3) AML 6017 (3)

Two of the following: ENL 6246 (3) ENL 6256 (3) ENL 6276 (3) AML 6018 (3) AML 6027 (3) LIT 6096 (3)

Two English electives

Thesis-ENG 6971 (3) on a literary topic
OR
Students may opt to write an M.A. Comprehensive exam on three literary periods (Students who opt to take the M.A. exam in place of the thesis do not need to enroll in thesis hours, but must enroll in a minimum of two directed research hours (ENG 6916) during the semester of graduation.)

Rhetoric and Composition
ENC 6336 (3)
ENC 6700 (3)
ENC 6720 (3)

Two courses (6) in American, British, or World Literature
Two electives (6) in Literature or Rhetoric and Composition

Thesis - ENG 6971 (3) M.A. Thesis/Project on a Rhetoric & Composition subject plus an oral defense
OR
Students may opt to write an M.A. exam tailored to the student's particular research specialization (Students who opt to take the M.A. exam in place of the thesis do not need to enroll in thesis hours , but must enroll in a minimum of two directed research hhours (ENG 6916) during the semester of graduation.

Creative Writing
CRW 6130 (3)
CRW 6331 (3)
CRW 6236 (3)
LIT 6096
One of the following:
CRW 6164 (3)
CRW 6352 (3)

Three of the following:

AML 6017 (3)	AML 6018 (3)	AML 6027 (3)
AML 6607 (3)	ENL 6206 (3)	ENL 6126 (3)
ENL 6226 (3)	ENL 6228 (3)	ENL 6236 (3)
ENL 6246 (3)	ENL 6256 (3)	ENL 6276 (3)

Thesis – ENG 6971 (3)

Comprehensive Examination
All M.A. students in Literature who do not write a thesis must write a comprehensive exam on six literary periods. Specifics of the exam can be found at http://www.cas.usf.edu/english/MAHandbook.pdf. M.A. students in Rhetoric and Composition must orally defend a thesis OR opt to take an M.A. exam tailored to the student's particular research specialization (this option replaces the thesis requirement). M.A. students in Creative Writing do not have a comprehensive examination, but must submit a thesis following specific guidelines.

A student may transfer up to six (6) hours of credit from another university; up to 12 hours taken as a non-degree seeking student. Up to six (6) hours may be taken in another department (the courses to be approved in advance by the Department of English Graduate Committee). A student receiving one grade of "C" or lower in a graduate course will be placed on academic probation. A student receiving two grades of "C" or lower will be dismissed from the program, subject to a review by the departmental Graduate Committee.

Graduate Certificate Program
For information on Graduate Certificates please visit http://www.outreach.usf.edu/gradcerts/

English Graduate Certificates Offered:

Creative Writing –
contact Professor Rita Ciresi at rciresi@cas.usf.edu

Comparative and Interdisciplinary Literary Studies –
contact Dr. Susan Mooney at smooney@cas.usf.edu

Teaching Composition –
contact Dr. Debra Jacobs at djacobs@chuma1.cas.usf.edu

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

ENGLISH PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 1

Minimum Total Hours: 90/60
Program Level: Doctoral
CIP Code: 23.0101
Dept Code: ENG
Program (Major/College): ENG AS

Concentrations available in:
Literature (LIT), Rhetoric and Composition (RAC)

CONTACT INFORMATION

College: Arts and Sciences
Department: English

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The goal of this program is to produce teacher-scholars who have a sound general knowledge of British and American literature and a specialized knowledge of their fields of concentration. Each student in the program must take courses in teaching college English. These courses in teaching are practicums which include actual teaching experience.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Literature/Rhetoric and Composition-

1) M.A. in English
2) GRE general exam: 650 V, 4.0AW
3) GPA 3.70 grad
4) three (3) letters of recommendation
5) a two-to-three page personal statement describing the student's background, purpose for attending graduate school, and career goals
6) A critical paper representing the student's work (unless published, this work should be a paper that the student has written for a university graduate English course, and it should be accompanied by a note from the professor confirming the course for which the paper was written)

DEGREE PROGRAM REQUIREMENTS

The Ph.D. in English involves a minimum of 30 hours of course work beyond the M.A. degree, exclusive of credits devoted to the foreign language and tools-of-research requirements and to the doctoral dissertation. Included in these hours, (if these courses have not been taken on the Master's level), are ENC 6319, ENG 6009, LAE 7376 – or LAE 7390, ENG 6018, ENG 6019, and ENG 7939 (a seminar which must be taken twice). After completing the necessary course work a student must take a nine-hour written qualifying doctoral exam. Students passing this exam and fulfilling the foreign language/tools-of-research requirements are then admitted to doctoral candidacy. Students failing this exam more than once are dismissed from the program. Upon the completion and approval of the dissertation, the student will defend the dissertation in a two-hour oral examination.. After successful completion of the dissertation and defense, the student will be awarded the doctoral degree.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENVIRONMENTAL SCIENCE AND POLICY PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 3.0103
Dept Code: ESP
Program (Major/College): ESP AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Geography Department: Environmental Science and Policy Program
Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact the program for information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

1. Applicant must hold B.S. or B.A. degree in a relevant subject area
2. Applicant must submit transcripts of udnergraduate degree and results of GRE taken at most seven (7) years before the application.
3. Applicant must submit a statement of interests, documenting capabilities, achievements, goals and intended area of academic and research concentation in the Department if admitted.
4. Applicant must submit at least three (3) letters of recommendation from persons familiar with the applicant's achievements, capabilities, and potential, including two persons qualified to judge the applicant's academic performance.
5. Program may have additional requirements; check before applying. It is strongly recommended that the applicant contact the Department's Graduate Program Director for guidance in applying to the M.S. Degree Program.

Program Admission Requirements

Same as university requirements. Students must submit GRE scores and have a GPA of at least 3.0 in his/her last 60 undergradaute hours, if non-native English speaker, TOEFL of at least 600.

DEGREE PROGRAM REQUIREMENTS

The curriculum consists of 36 credits divided into three categories:

1)	Core Requirements	12 credits
2)	Elective Requirements	15 credits
3)	Research Requirements:	9 credits

Core Requirements

1) **Applications/Tools:** Students select a course whose primary objective is mastery of research tools or methods with applications to research in the environmental field, subject to the approval of the Graduate Director and the student's Supervisory Committee. Courses that meet these criteria include:
   a. **GEO 5177** – Geographic Information Systems for Non-Majors
   b. **GEO 5157 –** Advance Geographic Information Systems
   c. **STA 5166 –** Computational Statistics I (or other statistics course approved by the Graduate Director)

1) **Environmental Thought and Communication** – Students will learn about the history, scope, and meaning of the environmental movement. They will be exposed to a wide variety of alternative perspectives as well as techniques of effective communication (This course is currently being offered by the Dept of Geography – **GEO 6116**)

2) **Advanced topics in Environmental Science** - Students select an advanced course from among ESP offerings designed to integrate scientific methods and apply scientific analyses to public policy decision-making.

3) **Graduate Seminar in Environmental Policy** (EVR 6034) – Students will learn to integrate policy related information from various disciplines including political science, economics, philosophy, geography, public administration, communication and education.

Elective Requirements
Students complete 15 credits (at least 4 regular classroom courses at the graduate level, with at most 1 Independent Study or Directed Reading) in a coherent and clearly defined area relevant to their research interests, subject to the approval of the Department Graduate Director and the student's Faculty Supervisory Committee. Areas in which students may decide to complete their electives, where courses are supported by the ESP Department and/or affiliated Departments, include:

1. **Ecology** The Department features a particular concentration in the areas of landscape ecology, wildlife ecology and management, concentration biology, ecological modeling, and field methods..

2. **Environmental Policy and Management**.

3. **Geology.** The Department features a particular concentration in Karst geology and public policy planning in Karstic environments, and another concentration in the area of paleogeology..

4. **Hydrogeology.** 15 credits as required by the Graduate Certificate in Hydrogeology, as specified by the Department of Geology.

5. **Natural Hazards Assessment and Mitigation**. .

6. **Urban Environment**.

7. **Water Quality and Policy.** The Department features a particular concentration in watershed-based water quality assessment; and water quality policy..

8. **Other areas will be considered.**

Research Requirements
The M.S. in ESP is a research-oriented degree. All students complete either a Thesis, or a Project, either of which constitutes an original scholarly contribution and is conducted under the direction of a Major Professor and a 3- member Faculty Supervisory Committee (of which the Major Professor serves as chair). The Project is completed only by students who are working full-time for an environmental agency or firm, and is supervised by a professional in the field as well as by the Supervisory Committee. Students form their Supervisory Committee before completion of 18 credits of coursework, typically near the end of their first full year in the Program. Students complete a Thesis Proposal or Project Proposal, subject to approval of the Supervisory Committee, and pass an oral comprehensive examination, typically in the form of an oral defense of the Thesis Proposal or Project Proposal, typically early in the second year of studies. Students defend their Thesis or Project in an oral presentation, and submit a written document for the approval of the Supervisory Committee, which is then submitted to the University as a requirement for earning the degree.

The research requirements include the following coursework, for a minimum total of 9 credit hours:

1) Directed Research (Thesis Preparation, EVR (6920): Students complete at least 6 credit hours of thesis research under the direct supervision of their major professor, typically during the second year of studies. After completion of all Core and Elective requirements, students remain enrolled in at least 2 credit hours per semester of EVR 6920 until the completion and submittal of the Thesis or Project, which completes the requirements for the degree. Throughout this period students must work in close cooperation with their major professor and Supervisory Committee, and provide the Committee a summary of progress at least once per semester.

2) Thesis Research Presentation Methods (EVR 6921), 2 credit hours

3) Research Colloquium (EVER 6930), 1 credit hour

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

ENVIRONMENTAL SCIENCE AND POLICY PROGRAM

Geography and Environmental Science and Policy
Dual Degree Program
Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 1
Fall admission only.

Minimum Total Hours: 90/60
Program Level: Doctoral
CIP Code: 45.0799
Dept Code: GEP
Program (Major/College): GEP AS

CONTACT INFORMATION

College: Arts and Sciences
Departments: Geography and Environmental Science and Policy Program

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ph.D. degree in Geography and Environmental Science and Policy is an interdisciplinary program, the curriculum of which is designed to take advantage of the strengths of multiple University departments in critical areas of geography and the environment. Emphasis is placed on providing theoretical rigor and methodological skills enabling students to make significant and original research and policy contributions in an integrated interdisciplinary environment. In addition, the degree has a very strong applied component reflecting the Departments' strong emphases in working on solutions to real-world geographical and environmental problems.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Economics, Social, and Planning Issues in the Urban Environment
Karst Science and Climate Change
Natural/Technological Hazards and Health
Landscape Ecology
Water Resources and Policy

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Admission standards follow those of the MS programs in the constituting Departments.

Program Admission Requirements

1) Undergraduate degree in relevant field, with preparation in both science and policy

2) Graduate Record Exam is required

3) GPA at least 3.0 in upper division undergraduate and graduate credits

4) If non-native English speaker, TOEFL of at least 600

5) Ability to conduct research in a field of current interest to departmental faculty

A minimum cumulative GPA of 3.0 at the undergraduate level or Masters' Degree from an accredited institution of higher learning. Applicants whose first language is not English must also submit a score of at least 600 on the Tests of English as a Foreign Language (TOEFL). See Department guidelines for application materials expected and other expected qualifications for admittance.

DEGREE PROGRAM REQUIREMENTS

The curriculum consists of 60 semester hours past the master's degree, or 90 hours past the bachelor's degree, and allows distinct concentration either in Environmental Science and Policy or in Geography. The curriculum consists of the following requirements:

1.	Core Requirements	9 credits
2.	Area of Emphasis Electives	9 credits
3.	Other Electives and Dissertation	42 credits

1. Core Requirements
Students must complete all the following courses

a.	Seminar in Natural Environments	3 credits
b.	Seminar in Urban Environments	3 credits

c. Doctoral Dissertation Preparation credits 3

2. Area of Emphasis Elective Courses
Upon entering the Program, students select an area of emphasis from among the five Major Research Areas listed above. Students complete nine (9) credits of coursework within the area of emphasis as designated by the Graduate Director or by the student's major professor and Faculty Supervisory Committee. The coursework should be selected in a way that supports the student's intended dissertation research. A wide variety of advanced graduate courses are available at the University in each of the five areas of emphasis.

3. Other Electives and Dissertation Credits
Students complete 42 credit hours in the form of elective coursework, directed reading, independent study, or dissertation hours. The student's major professor and Faculty Supervisory Committee will advise students on the selection of the proper mix of coursework and other study to support the agreed upon dissertation research. It is likely that students will include coursework from a variety of departments to support the elective requirements, and students may choose to complete a Graduate Certificate in a particular field, from another department, as part of their studies. Students entering the Ph.D. program who have not completed a Masters Degree in either Geography or Environmental Science and Policy should expect to complete coursework equivalent to the requirements of one of those Masters programs.

Ph.D. Candidacy and Dissertation
A student will be admitted to candidacy following successful completion of comprehensive qualifying exams and the successful oral defense of a dissertation proposal. To complete the degree will require the full completion and oral defense of a comprehensive Ph.D. dissertation. See Program guidelines for detailed procedures on dissertation research, faculty supervision, structure of examinataions and defenses, and completion of the dissertation.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

See Program guidelines for additional information.

FRENCH PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33-36
Program Level: Masters
CIP Code: 16.0901
Dept Code: WLE
Program (Major/College): FRE AS

CONTACT INFORMATION

College: Arts and Sciences
Department: World Languages

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact Program for Information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as university plus 2-3 letters of recommendation, a writing sample in French, and an oral interview in French (can be done by phone). The GRE is not required.

DEGREE PROGRAM REQUIREMENTS

1. Proficiency in a second foreign language.
2. Satisfactory completion of a written comprehensive examination on French language, literature, and civilization. This exam is based on a reading list.
3. FOW 6805 Bibliography
4. Course work following one of the plans listed below:
   a. Plan A - 36 hours of graduate courses in French. No thesis.
   b. Plan B - 36 hours, of which 27-30 graduate hours must be in French and 6-9 in another area/department, as approved by the French Graduate Program Director. No thesis.
   c. Plan C - 27 semester hours in French plus a thesis, with 6 hours of FRE 6971.
   d. Plan D - 27 semester hours, with 18-21 hours of graduate-level course work in French and 6-9 in another area/department, as approved by the French Graduate Program Director. In addition: a thesis, with 6 hours of FRE 6971

OTHER INFORMATION

Special Programs Overseas
The Department of World Languages in cooperation with the International Affairs Center, offers several study programs overseas. These include study in several locations in France and Canada. For complete details, contact the program advisors or the International Affairs Center.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

GEOGRAPHY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 1
Spring: October 15 (with or without GA application)

Minimum Total Hours: 30 Thesis Option
36 Non-Thesis Option
Program Level: Masters
CIP Code: 45.0701
Dept Code: GPY
Program (Major/College): GPY AS

Concentrations available in:
Geographic Information Systems and Spatial Analysis (TGP), Natural/Technological Hazards and Environmental Justice (EVG), Economic, Social and Planning Issues in the Urban Environment (USG)

Also offered as:
Graduate Certificate: Geographic Information System Certificate Program - go to http://www.outreach.usf.edu/gradcerts/certinfo.asp?certname=GISS for information.

CONTACT INFORMATION

College: Arts and Sciences
Department: Geography

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Geography is the study of the human-environment relationship either in a global or more regional context. Physical geographers focus on physical/human interrelationships and the interconnections among the various physical environmental elements. Human geographers focus on human interactions with their own environmental constructions, both built and social. Physical and human geographers both rely on specific techniques, including cartography, geographic information systems, and field work, in their research. The Department of Geography provides the opportunity to pursue the study of geography with particular emphasis on applied work geared to help solve real world problems.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Economics, Social, & Planning in the Urban Environment
Karst Science, Meteorology, Climatology and Climate Change
Physical Geography
Natural/Technological Hazards and Health
Landscape Ecology
Water Resources and Policy
Geographic Information Science

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university plus two letters of recommendation, transcripts, a letter of intent, and a graduate assistant application if the applicant is applying for a GA position. The GRE is required.

DEGREE PROGRAM REQUIREMENTS

The Department of Geography offers a Masters of Arts (M.A.) in Geography with a thesis and non-thesis option.

Students must complete a minimum of 30 semester hours of graduate level course work for the thesis option and 36 hours for the non-thesis option.

Required Core Courses (Nine Hours)

All students must take the following core courses:
GEO 6058 Geographic Literature and History (3 hrs)
GEO 6920 Research Methods in Geography (3 hrs)

Based upon the student's area of interest, he/she must take one course from the following list of Quantitative or Qualitative course offerings:

Quantitative:
GEO 6166 Multivariate Statistical Analysis (3 hrs)

Another course can be substittued for GEO 6166 with the permission of the Graduate Program Director. Possible substitutions, based upon the student's area of interest can include, but is not limited to the following:

Geology: GLY 5865 Statistical Models in Geology (3)
Biology: PCB 6455 Statistical Ecology (3 hrs)
Statistics: STA 5166 Computational Statistics I (3 hrs)
Sociology: SYA 6405 Sociological Statistics (3 hrs)

Qualitative:
American Studies:
AMS 6156 Theories and Methods of Cultural Studies (3))

Communication:
COM 6400 Communication Theory (3 hrs)

Philosophy:
PHI 6305 Seminar in Epistemology (3 hrs)

Sociology:
SYA 6315 Qualitative Research Methods (3 hrs)

Women's Studies:
WST 6001 Feminist Issues, Research, Methods (3 hrs)

A GEA regional course is not require din the student's program of study, but students are strongly encouraged to complete at least one of these courses.

Tracks
Students specialize in one of the three tracks (A, B, and C) that the department offers. Students must select a minimum of three coruses (9 credits) from the selected track

Thesis option students take six credit hours of electives at a level of 5000 or higher, keeping in mind that a minimum of ten hours is required at the 6000-level. At least one of the electives must be taken outside of the student's track excluding GEO 6908, 6918, and 6944. Electives may also be selected from courses offered outside of th eDepartment, with the consent of the student's advisor and the graduate program director. A maximum of six approved horus taken outside the department can be used in the students degree program. The remaining 6 credit hours are taken as Thesis (GEO 6971). Students in the thesis option can only apply three credit hours of Internship (GEO 6944), and three credit hours of Directed Research (GEO 6918) or Independent Research (GEO 6908) toward his/her degree program.. Upon completion of am imum of 15 hours tudetns are required to defend a thesis proposal. He/she must also complete a thesis defense during the semester they plan to graduate, and they msut be enrolled in a minimum of 2 semster hours of thesis credit during the semester iinwhich a thesis submited to the Graduate School.

Non-thesis option students complete a total of 36 hours, with 27 hours of electives completed at a level of 5000 or higher, keeping in mind that a minimum degree requirement is 16 hours at the 6000 level. Students can also take up to nine hours outside the department with the consent of his/her adivsor and the garduate program director, to apply toward his/her degree program. Students can apply three credit hours of Internship (GEO 6944), three credit hours of Directed Research (GEO 6918) and/or Independent Reesearch (GEO 6908) toward their degree program.. Students must pass a comprehensive written examination that is administered uring the semester they plan to graduate.

The following tracks or concentrations are available:

Track A: Economic, Social and Planning Issues in the Urban Environment

GEO 6116 Perspective of Environmental Thought (3 hrs)
GEO 6345 Technological Hazards and Environmental Justice (3 hrs)
GEO 6347 Natural Hazards (3 hrs)
GEO 6428 Seminar in Human Geography (3 hrs)
GEO 6475 Political Geography Seminar (3 hrs)
GEO 6505 Contemporary Urban Issues (3 hrs)
GEO 6545 Economic Geography Seminar (3 hrs)
GEO 6566 Site Feasibility Analysis (3 hrs)
GEO 6704 Transportation Geography (3 hrs)
GEO 7605 Seminar in Urban Environments (3 hrs)

Track B: Natural/Technological Hazards and Environmental Justice
GEO 6116 Perspective of Environmental Thought (3 hrs)
GEO 6178 Environmental Applications of GIS (3 hrs)
GEO 6209CPhysical Geography Seminar (3 hrs)
GEO 6215 Geomorphology Seminar (3 hrs)
GEO 6217 Karst Geomorpohlogy (3 hrs)
GEO 6263 Soils Seminar (3 hrs)
GEO 6286 Water Resources (3 hrs)
GEO 6288 Hydrological Systems (3 hrs)
GEO 6345 Technological Hazards and Environmental Justice (3 hrs)
GEO 6347 Natural Hazards (3 hrs)
MET 6140 / GEO 6255
Weather, Climate and Society (3 hrs)

Track C: Geographic Information Systems and Spatial Analysis
GEO 5075 Global Positioning Systems (3 hrs)
GEO 6115 Field Techniuqes (3 hrs)
GEO 6119 Geographical Techniques and Methodology (3 hrs)
GIS 6038C Remote Sensing (3 hrs)
GIS 6039 Remote Sensing Seminar (3 hrs)
GIS 6100 Geographic Information Systems (3 hrs)

GIS 6146 GIS Seminar (3 hrs)
GEO 6166 Multivariate Statistical Analysis (3 hrs)
GIS 6355 Water Resources Applications of GIS (3 hrs)
GIS 6306 Environmental Applications of GIS (3 hrs)
GIS 6112 Spatial Database Development (3 hrs)
GIS 6130 Programming for GIS 93 hrs)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

GEOGRAPHY

Geography and Environmental Science and Policy
Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
March 1 (for full financial consideration)

Minimum Total Hours: 90/60
Program Level: Doctoral
CIP Code: 45.0799
Dept Code: GEP
Program (Major/College): GEP AS

CONTACT INFORMATION

College: Arts and Sciences
Departments: Geography and Environmental Science and Policy Program

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ph.D. degree in Geography and Environmental Science and Policy is an interdisciplinary program, the curriculum of which is designed to take advantage of the strengths of multiple University departments in critical areas of geography and the environment. Emphasis is placed on providing theoretical rigor and methodological skills enabling students to make significant and original research and policy contributions in an integrated interdisciplinary environment. In addition, the degree has a very strong applied component reflecting the Departments' strong emphases in working on solutions to real-world geographical and environmental problems.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Economics, Social, and Planning Issues in the Urban Environment
Karst Science and Climate Change
Natural/Technological Hazards and Health
Landscape Ecology
Water Resources and Policy

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Admission standards follow those of the M.S. programs in the constituting Departments.

Program Admission Requirements

1) Undergraduate degree in relevant field, with preparation in both science and policy
2) Graduate Record Exam is required
3) GPA at least 3.00 in upper division undergraduate and graduate credits
4) If non-native English speaker, TOEFL of at least 600
5) Ability to conduct research in a field of current interest to departmental faculty

A minimum cumulative GPA of 3.0 at the undergraduate level or Masters' Degree from an accredited institution of higher learning. Applicants whose first language is not English must also submit a score of at least 600 on the Tests of English as a Foreign Language (TOEFL). See Department guidelines for application materials expected and other expected qualifications for admittance.

DEGREE PROGRAM REQUIREMENTS

The curriculum consists of 60 semester hours past the master's degree, or 90 hours past the bachelor's degree, and allows distinct concentration either in Environmental Science and Policy or in Geography. The curriculum consists of the following requirements:

1. Core Requirements 9 credits
2. Area of Emphasis Electives 9 credits
3. Other Electives and Dissertation 42 credits

1. Core Requirements
Students must complete all the following courses
a. Seminar in Natural Environments 3 credits

b.	Seminar in Urban Environments	3 credits
c.	Doctoral Dissertation Preparation	3 credits

2. Area of Emphasis Elective Courses
Upon entering the Program, students select an area of emphasis from among the five Major Research Areas listed above. Students complete nine (9) credits of coursework within the area of emphasis as designated by the Graduate Director or by the student's major professor and Faculty Supervisory Committee. The coursework should be selected in a way that supports the student's intended dissertation research. A wide variety of advanced graduate courses are available at the University in each of the five areas of emphasis.

3. Other Electives and Dissertation Credits
Students complete 42 credit hours in the form of elective coursework, directed reading, independent study, or dissertation hours. The student's major professor and Faculty Supervisory Committee will advise students on the selection of the proper mix of coursework and other study to support the agreed upon dissertation research. It is likely that students will include coursework from a variety of departments to support the elective requirements, and students may choose to complete a Graduate Certificate in a particular field, from another department, as part of their studies. Students entering the PhD program who have not completed a Masters Degree in either Geography or Environmental Science and Policy should expect to complete coursework equivalent to the requirements of one of those Masters programs.

Ph.D. Candidacy and Dissertation
A student will be admitted to candidacy following successful completion of comprehensive qualifying exams and the successful oral defense of a dissertation proposal. To complete the degree will require the full completion and oral defense of a comprehensive Ph.D. dissertation. See Program guidelines for detailed procedures on dissertation research, faculty supervision, structure of examinataions and defenses, and completion of the dissertation.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

See Program guidelines for additional information.

GEOLOGY PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 40.0601
Dept Code: GLY
Program (Major/College): GLY AS

Concentrations available in:
Aqueous Geochemistry (AQY),
Biogeochemistry (BGC)
Coastal Geology (CGE)
Environmental Geophysics (ENY)
Geomorphology (GMP)
Hydrogeology (HDG)
Paleoclimatology (PLC)
Paleontology (PTG)
Petrology (PLG)
Tectonophysics (TCT)

Other areas of study:
Volcanology (VOL)

CONTACT INFORMATION

College: Arts and Sciences
Department: Geology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes that affect our planet.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university admission requirements plus 3 letters of recommendation, personal statement, listing of previous coursework, transcripts. GRE required, but no minimum specified.

DEGREE PROGRAM REQUIREMENTS

The Department of Geology requires a candidate for the thesis-track M.S. Degree to complete at least 30 graduate credit hours. These hours are subdivided into 24 hours of structured coursework, of which at least ten (10) must be at the 6000 level, and at least six (6) hours in thesis research (GLY 6971). The curriculum for a Geology graduate student varies depending on the area of research interest. Specific course work for the degree is determined via consultation between the student, his/her primary advisor and his/her student advisory committee. Other pertinent information regarding graduate study is contained in the Department's Graduate Student Handbook, which is available upon request.

All degree candidates are required to maintain satisfactory academic progress at all times. Satisfactory academic progress in this program is defined as progress in course and thesis work. Evidence of academic progress includes timely completion of departmental requirements such as selecting a primary advisor, forming a student advisory committee, completion of any prerequisites or deficiencies, timely progress toward completion of the thesis, maintaining a satisfactory GPA, defending a thesis proposal, and making a public presentation. A schedule

for meeting these requirements is contained in the Department's Graduate Student Handbook.

Hydrogeology Internship
M.S. Option –
This program requires 30 hours of structured coursework, and a 3-credit internship project. A list of approved courses is available from the Department. Criteria for selecting appropriate internship projects are contained in the Geology Graduate handbook. Internship projects, which are supervised by Professional Geologists (PGs), must receive prior approval by the Internship Coordinator. The curriculum requires a comprehensive exit exam that is based on coursework and the internship project. Before the exit exam, the student must submit an Internship Project Report approved by the supervising PG. The hydrogeology internship committee determines the format of the exam. Normally, it is an oral examination following the student's presentation of the results of the internship project to the hydrogeology internship committee.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

GEOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 60
Program Level: Doctoral
CIP Code: 40.0601
Dept Code: GLY
Program (Major/College): GLY AS

Concentrations available in:
Aqueous Geochemistry (AQY)
Biogeochemistry (BGC)
Coastal Geology (CGE)
Environmental Geophysics (ENY)
Geomorphology (GMP)
Hydrogeology (HDG)
Paleoclimatology (PLC)
Paleontology (PTG)
Petrology (PLG)
Tectonophysics (TCT)

Other areas of study:
Volcanology (VOL)

CONTACT INFORMATION

College: Arts and Sciences
Department: Geology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes that affect our planet.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university admission requirements plus 3 letters of recommendation, personal statement, listing of previous coursework, transcripts. GRE is required, but no minimum specified.

DEGREE PROGRAM REQUIREMENTS

The Ph.D. program in Geology requires a minimum of 15 semester hours of graduate (6000 level) structured course work after the Master's or equivalent. Course requirements beyond this are at the discretion of the student's committee. All doctoral students must maintain good standing in the Graduate School (overall GPA =3.0) and maintain satisfactory academic progress toward the degree. Any student who receives a C in a structured course will be placed on academic probation. This probation can be terminated by achieving grades of B or higher in the subsequent semester of full-time enrollment. If a second grade of C is received, the student is terminated from the doctoral program. Only courses in which the student receives at least a B may be counted toward the 15-hour, structured-course requirement. There is also a requirement that Ph.D. students have at least two semesters of full-time residence. While meeting the residency requirements, candidates must be full-time students in good academic standing.

General examinations and presentations of thesis proposals should be completed no later than the end of the second year in the doctoral program. The examining and dissertation committees are the same and will be

comprised of no less than five members, at least three of which must be USF faculty, and at least one member from outside the department.

Admission to candidacy will be based on the results of a general examination administered by the student's committee. The format of the exam will be determined by the committee at least one week prior to the onset of the examination. Normally, it will consist of a written section or sections, followed by an oral examination chaired by the student's research advisor. After admission to candidacy, all doctoral students will make at least one formal presentation of their research prior to graduation. Any appropriate venue is acceptable, e.g., Dept. colloquium, oral or poster sessions at a scientific meeting of at least regional scope.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

GERONTOLOGY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 30.1101
Dept Code: GEY
Program (Major/College): GEY AS

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Aging Studies

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Gerontology is the study of the process of human aging in all its aspects: physical, psychological, and social. In the School of Aging Studies, particular emphasis is placed on educating Gerontology students who, in their professional careers, will work to sustain or improve the quality of life of older people. Many of our program graduates are employed in agencies providing services for older adults. For information about the interdisciplinary Ph.D., see the separate listing for Aging Studies Ph.D.

The School offers the M.A. in Gerontology, with either a thesis or non-thesis option. In addition to completing a required core curriculum, students may select gerontology courses suited to their particular career goals. These include courses focused on such diverse areas as research, program administration, and direct service. While the M.A. program does not have separate tracks, students are advised to select courses in such concentrations as case management, administration, mental health, and research. Students should meet with their advisors to select concentrations appropriate to their professional goals.

Internships are recommended and available for students who need practical experience in the field of aging. Students interested in internships should see the school's internship director. Following completion of the necessary coursework there is a comprehensive examination designed to test the student's knowledge of, and ability to integrate, key concepts and information in the field of gerontology. This examination must be taken and passed by all students in the M.A. program. Students electing the thesis option must successfully pass an oral examination on the thesis. There are no language requirements.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

University requirements with the exception of a GPA of 3.00 or greater and a GRE score of at least 430V, 470Q, 4.0A.W.

DEGREE PROGRAM REQUIREMENTS

The M.A. degree requires 36 credits of graduate study.

Required courses (15 credits) include:
GEY 5620 (3) GEY 5630 (3) GEY 6450 (3) GEY 6600 (3) GEY 6613 (3)

The remaining 21 hours of coursework must be selected from other graduate courses in gerontology.

The following courses are suggested for three focus areas:

Case management:
GEY 6614 Psychopathology and Aging;
GEY 6616 Mental Health Assessment of Older Adults;
GEY 6617 Gerontological Mental Health Counseling;
GEY 6618 Gerontological Group and Family Counseling;
GEY 6934 Gerontological Case Management

Administration of Services for the Aged:
GEY 6340 Housing for the Elderly;
GEY 6500 Seminar in Principles of Administration;
GEY 4327 Long Term Care Administration I – The Service Array;
GEY 4328 Long Term Care Administration II – Institutional Care;
GEY 6934 Using Computers in Adm. Decision-making.

Gerontological Research:
GEY 6934 Program Planning and Evaluation;
GEY 6934 Advanced Statistics in Aging Research;
GEY 6910 Directed Research in Gerontology;
GEY 6971 Thesis.

Comprehensive Exam
Thesis (if in Thesis option)

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

HISTORY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 54.0101
Dept Code: HTY
Program (Major/College): HTY AS

Concentrations available in:
American History (AHY)
Ancient History (AHS)
European History (EHS)
Latin American History (LAH)
Medieval History (MHS)

CONTACT INFORMATION

College: Arts and Sciences
Department: History

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of History offers the M.A. degree. Members of the graduate faculty in History have earned recognition as teachers, scholars, and contributors to the community. The Department offers both a thesis and a non-thesis Master of Arts degree organized around the following fields:

Field 1: American History to 1877
Field 2: American History since 1877
Field 3: Ancient History
Field 4: Medieval History
Field 5: Early Modern Europe to 1789
Field 6: Modern Europe since 1789
Field 7: Latin America

The thesis program emphasizes preparation for further graduate study. The non-thesis program is designed to meet the needs of those students seeking a terminal degree at the master's level.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as university plus a two page statement of goals and two letters of recommendation. GRE 500V, 500Q, 4.5AW

DEGREE PROGRAM REQUIREMENTS

In addition to the general requirements of the University, a candidate is required to complete 36 hours in the following distribution:

Core Courses (HIS 6112) 4 hours
Major Field 16 hours
Minor Field 8 hours
Thesis (HIS 6971) 8 hours

Non-Thesis 8 hours of 6000 level regularly scheduled history courses.

Of the 36 hours required for the Master of Arts with thesis, at least 20 must be in formal, regularly scheduled course work. For the Master of Arts without thesis, at least 28 must be in formal, regularly scheduled course work. A minimum of 16 must be at the 6000 level. Subject to the satisfaction of above requirements, courses at the 5000 level are acceptable as part of a planned degree program. In special circumstances, major advisors may approve up to six (6) hours at the 4000 level with the definite understanding that additional and superior work will be required of the graduate student. The core course, HIS 6112, "Analysis of Historical Knowledge" is required of all M.A. students.

In the thesis degree program students must be able to demonstrate a reading proficiency in one foreign

language. A satisfactory preparation in the core course, two fields, and the completion of a comprehensive examination are required of all M.A. students for graduation.

Students with a major field in American History and with a thesis topic that does not require use of a foreign language may substitute quantitative methods for the language requirements. The quantitative methods option will be fulfilled by successful completion with a grade of at least "B" in one of the following courses ANG 5937; EDF 6407; POS 5736, MAT 5932.

Upon admission, M.A. students will select a major professor who will arrange their programs of study. The student, in consultation with the major professor, solicits two other members to serve on a supervisory committee.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

LATIN AMERICAN, CARIBBEAN, AND LATINO STUDIES PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Masters
CIP Code:	5.0107
Dept Code:	GIA
Program (Major/College):	LAS AS

CONTACT INFORMATION

College:	Arts and Sciences
Department:	Institute for the Study of Latin America and the Carribean (ISLAC)
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The mission of ISLAC is to promote the study of Latin America and the Caribbean, to further USF's strategic plan for internationalization. ISLAC is an acadmeic unit devoted to interdisciplinay research and teaching focused on economic, social, political and cultural formations in Latin America and the Caribbean and among the Hispanic/Latino populations in North America, framing these issues in the broader context of human security in the Americas.

ISLAC holds two Research Awards competitions for faculty and graduate students: one for the spring and one for the summer. This is a way to encourage and support research, conference participation and course development in all fields related to Latin American, Caribbean and Latino Studies.

The Institute fosters greater knowledge of Latin America and the Caribbean and Latino issues, through partnerships with community organizations and USF departments to sponsor lectures and cultural events that are open to the public throughout the year. ISLAC faculty and staff are engaged with USF administration to strengthening communities ties and to advance the internationalization of USF programs, research, curricula, faculty and students.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Faculty Interests Include:
ISLAC 63 affiliate faculty members are drawn from a number of social science, humanities, arts, and human service fields, including, but not limited to History, Spanish-Ameerican and Caribbean Languages and Literature, Humanities, Anthropology, Political Science, Sociology, Economics, Business, Geography, Public Administration, Fine Arts, Public Health, Education, African Diaspora, Women's Studies and Mental Health.

Research Areas:
Cuba, Caribbean, Southern Cone, Gulf Coast, Puerto Rico, Bolivia, Mexico, Ecuador, Peru, Guatemala, Nicaragua, Brazil, Costa Rica, Honduras, Meso and Central America.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as University in addition to: must have 3.00 GPA, three letters of recommendation, statement of purpose and resume.. GRE not required, but suggested for full financial consideration.

DEGREE PROGRAM REQUIREMENTS

The Curriculum consists of 36 credits divided into three categories:

Core requirements	9 credits (6 seminar, 3 methodology)
Major Field requirements	12 credits
Minor Field requiremetns	6 credits
Additional Elective	3 credtis
Thesis or Electives	6 credits

Core Requirements
Students must take two interdisciplinary core seminars and a methods course upon entering the program. The core seminars, directed by a faculty member from one of

the participating departments, will familiarize students with the literature, existing knowledge, and research approaches of the various fields of area studies and invited to acquaint students with faculty and their research. The purposes of the seminars are:

- to provide an interdisciplinary graduate experience
- to foster a community of scholars and learners focused on Latin American, Caribbean, and Latino experiences
- to encourage the integration of learners into the larger Latin communities of Tampa Bay, West Florida, and the hemisphere.

Students will also take a three (3) hour methodology course that acquaints them with particular research relevant to their discipline and when possible, Latin America and/or the Caribbean. This includes special approaches to finding documentation from Latin America and the Caribbean; newly-available search tools available on the internet; and an overview of how disciplines utilize different research materials.

Major and Minor Fields
With the concurrence of the ISLAC advisor, students will elect major and minor fields during their first semester. These fields will draw heavily on participating departments (e.g. Anthropology, History, Government and International Affairs, Art History). At that time the student will constitute a supervisory committee, made up of two professors from the major field and one from the minor field. The committee members will counsel the student and serve as members of the exam or thesis committees.

A large number of courses are available to fulfill the major and minor field requirements. These are listed separately and change somewhat from year to year. Departments who frequently work with ISLAC are Anthropology, Government and International Affairs, Sociology, Mass Communication, Geography, Social Work, Women Studies, Global Health, Philosophy, Economics, History, .World Languages, Humanities and American Studies, Art History and Africana Studies. Students may also request to have courses from other departments count toward major or minor fields.

Electives
Students can take one elective from outside the major and minor fields, in order to complement their core studies. These might be technical courses, study abroad courses internships, math and science courses, methodology, or another unrelated field. In all cases, students must justify their elective hours and receive approval from their committees.

In addition, students opting for the non-thesis track must take one more course in each of their major and minor fields. Students considering teaching in community colleges are encouraged to take more classes in their major field.

Graduation Requirements
At the conclusion of their coursework, students who opted for thesis must gain approval of the thesis by the committee. All candidates for the degree must also demonstrate language proficiency either by examination or by completing a 3000-level course in Spanish or Portuguese with a B or better. Finally, all non-thesis candidates must pass a six (6) hour comprehensive written exam of three questions, which will be composed and graded by the committee. Students must also meet all College and University Graduation Requirements.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm or http://web.usf.edu/iac/islac

LIBERAL ARTS PROGRAM

Master of Liberal Arts (M.L.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 24.0101
Dept Code: HUM
Program (Major/College): MLA AS

Concentrations available in:
Africana Studies (AFT)
Florida Studies (Offered in St. Petersburg) (FST)
Humanities (HST)
Liberal Studies (LSS)
Social and Political Thought (SPT)

CONTACT INFORMATION

College: Arts and Sciences
Department: Humanities and American Studies

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Master of Liberal Arts offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Five program concentrations are available: the Liberal Studies Sequence, though broadly interdisciplinary, focuses on a concept, movement or idea. The Humanities Sequence requires a concentration in the Dept of Humanities and American Studies. The Social and Political Thought Sequence requires a program of study approved by a faculty committee. The Africana studies Sequence requires a concentration in Africana Studies. It is an interdisciplinary program that focuses on the study of African American, African, and African Diasporan culture and society. The Florida Studies Sequence allows students to build a program based on a broad array of Florida-based classes drawing on many programs, including History, English, Marine Science, Political Science, Journalism and Media Studies, Art, and Anthropology. All programs require a minimum of 30 credits of course work and a 3 credit thesis.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Upper division undergraduate GPA of 3.00 and a GRE required with least 500 V and 4.5 AW. Contact individual concentration advisors for possible additional requirements (e.g., recommendations, writing samples, etc.)

DEGREE PROGRAM REQUIREMENTS

Africana Studies Concentration –
Total minimim required hours (33)

Courses – 30 hours from the approved course list. Twenty-one hours must be in Africana Studies courses, include AFA 5935 and AFA 6101, and 9 in approved outside electives. At least 15 hours must be at the 6000 level; four hours may be at the 4000. Satisfactory completion of a written comprehensive examination.
Thesis (3); thesis Defense

Humanities Concentration –
Total minimum required hours: (33)
Courses - 30 hours in courses from the approved list. 21 hrs. must be in Humanities courses, including HUM 6815 and HUM 6801, and 9 hrs. in approved outside electives. At least 15 hours must be at the 6000 level; 4 hours may be at the 4000 level.Satisfactory completion of a written comprehensive examination.Thesis (3); thesis Defense.

Liberal Studies Concentration –
Total minimum required hours: (33)
Courses - 30 hours in courses from the approved course list. At least nine but no more than 12 hours must be taken in a single department. At least 20 hours must be at the 6000 level; four hours may be at the 4000 level.Satisfactory completion of a written comprehensive examination. Thesis (3); thesis Defense.

Social and Political Thought Concentration—
Total minimum required hours: (33)
Course - 30 hours of courses approved by a committee selected by the student from the program faculty. Eight hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination

Florida Studies Concentration (St. Petersburg Campus)
Total minimum required hours: (33)
Course - 30 hours of courses from an approved list. At least 20 hours must be at the 6000 level; four hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); Thesis Defense.

All Concentrations require the student to work closely with an assigned major professor. Prior to registration for the second semester in the Liberal Studies and Africana Studies sequences, the student must submit in writing to the Master of Liberal Arts Program Director (Liberal Studies Concentration) or the Director of Africana Studies (Africana Studies Concentration) a signed statement of intent to focus on a particular concept, idea, theme, or area of emphasis. This statement must be approved, dated, and signed by the Director and made a part of the student's record. Subsequent courses selected for study are expected to center around this stated focus. Variation from the focus must be approved by the Director. Courses may be taken from any of the programs listed below:

American Studies
Anthropology
Art
Communication
Criminal Justice
English
Geography
History
Humanities
Interdisciplinary Social Science
Language
Mass Communications
Philosophy
Political Science
Religious Studies
Sociology

Specific course listings for each Concentration may be obtained from the MLA office, CPR 363.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

LIBRARY AND INFORMATION SCIENCE PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 39
Program Level: Masters
CIP Code: 25.0101
Dept Code: LIS
Program (Major/College): LIS AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Library and Information Science

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The mission of the School of Library and Information Science is to educate students for careers and leadership roles in library and information professions that serve the needs of a culturally diverse, technological society; to contribute to the body of theoretical and applied knowledge in the discipline; and to serve current and emerging needs in the University, the community, and the profession. For Goals, Objectives, and Student Learning Outcomes, refer to the program's web page.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools, the American Library Association (ALA) and the National Council for the Accreditation of Teacher Education (NCATE).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as the university. GRE is required with minimum scores of 500V, 500Q. However, the LIS program will waive the GRE requirement if the student meets one of the following criteria:

1. a 3.5 or higher GPA in a completed master's degree program
2. a 3.0 or higher GPA in upper division undergraduate work.

Students not meeting either of the above waiver criteria must also submit 3 reference letters and a statement of purpose and goals to serve as a writing sample.

DEGREE PROGRAM REQUIREMENTS

A minimum of 39 semester hours is required for the Master's degree program. Students must maintain a 3.0 grade point average of "B" or better and no more than two grades below "B" will be accepted. Transfer credit from other recognized graduate schools is limited to six semester hours taken within the last five years with grades of "B" or better. All transfers must be approved by the candidate's faculty advisor. Transfer credits must be posted to a student's permanent record no later than one full term prior to graduation.

Required Courses
Six core courses are required: LIS 5020; LIS 6271; LIS 6409 or LIS 6455; LIS 6511; LIS 6603; LIS 6735 or LIS 6725, plus a planned program of electives developed for each student as approved by the advisor.

Courses Outside the School
Degree-seeking students are permitted to enroll in courses, usually limited to six semester hours, outside the School of Library and Information Science when, in the context of the development of a purposeful program, an interdisciplinary approach seems appropriate. Students must obtain the prior approval of their Faculty advisor.

Comprehensive Examination
Students must pass a written comprehensive examination. Students will take the comprehensive examination in their last semester. Students who plan to graduate in August may take the comprehensive examination in the spring with the approval of their faculty advisor. Students must be enrolled for a minimum of two credit hours during the semester in which they take the comprehensive examination. The School conducts comprehensive examinations only in the spring and fall semesters.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
http://www.cas.usf.edu/lis/gen/courses.html

OTHER INFORMATION

ALA-USF, ASSIST-USF, and SLA-USF are student chapters of the American Library Association, American Society for Information Science & Technology and Special Libraries Association linked with the School of Library and Information Science and are open to all members of the University community interested in information science or librarianship. All provide programs and guest speakers of interest to the campus community, maintain several discussion lists, and publish a newsletter for their members. These organizations are the voice of students in the school, and members of the associations are included on committees within the School.

LINGUISTICS PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 16.0102
Dept Code: WLE
Program (Major/College): LIN AS

CONTACT INFORMATION

College: Arts and Sciences
Department: World Languages

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

LINGUISTICS: ENGLISH AS A SECOND LANGUAGE PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 39
Program Level: Masters
CIP Code: 16.0102
Dept Code: WLE
Program (Major/College): ESL AS
Also offered as: Applied Linguistics

CONTACT INFORMATION

College: Arts and Sciences
Department: World Languages

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. The Linguistics Program offers two graduate tracks:

1. The Master of Arts in Linguistics (thesis)(currently inactive), and

2. The Master of Arts in Applied Linguistics (Teaching English as a Second Language); (non-thesis).

For information on the M.A. in Linguistics, refer to that Program listing.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Language testing, curriculum development, second language learning and teaching.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university. GRE is also required but may be waived for applicants with a master's degree. Scores at or above 430 V and 4.0 AW are generally considered acceptable. Also must have:

1) three letters of recommendation,
2) a two-page statement of purpose, written by the applicant.
3) Students whose native language is other than English and whose bachelor's degree was not earned in an English-medium university in an English speaking country must provide a TOEFL score of 600 (250 on the computerized version).

Applicants should note that proficiency in a second language is required by the time of graduation.

DEGREE PROGRAM REQUIREMENTS

Non-Thesis: Applied Linguistics (TESL)

I. Core Requirements (27 hours)
LIN 5700 (3) LIN 6081 (3) LIN 6675 (3)
LIN 6720 (3) LIN 6748 (3)
TSL 5371 (3) TSL 5372 (3) TSL 5471 (3)
TSL 5525 (3)

II. Six hours of approved electives

III. Additional requirements 6 hours of internship through enrollment in TSL 6945

A written and oral comprehensive examination is required for all M.A. students, as is submission of end-of-program portfolio and demonstration of proficiency in a language other than the student's native tongue.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MASS COMMUNICATIONS PROGRAM

Master of Arts (M.A) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 39
Program Level: Masters
CIP Code: 9.0102
Dept Code: MCM
Program (Major/College): COM AS

Concentrations available in:
Media Studies (MCM)
Strategic Communication Management(PRS)
Multimedia Journalism (MMJ)

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Mass Communications

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. degree program in Mass Communications is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications. The program offers one degree, the Master of Arts in Mass Communications.

The Media Studies Concentration emphasizes the theoretical principles and research methods of mass communications. The Public Relations Studies Concentration emphasizes public relations management and social science research. The Multimedia Journalism Studies Concertation focuses on story telling through the integration of different delivery platforms, and on management issues in converged newsrooms.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools and the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university except that the students are required to have both a 3.0 upper division GPA and 500V, 500Q on the GRE. In addition, a resume, three letters of recommendation (academic recommendations preferred), a strong letter of intent and an appropriate bachelors degree from an accredited institution.

DEGREE PROGRAM REQUIREMENTS

Concentration in Media Studies
This program requires 36 hours of course work, including 6 hours of thesis. At least twenty-four hours are taken in the School of Mass Communications. The remaining 9-12 hours may be taken in graduate-level courses offered in other departments of the University.

Concentration in Multimedia Journalism
The graduate concentration in Multimedia Journalism prepares students to take leadership positions in journalism through their knowledge of the field of mass communications, management in the media environment and the ability to combine storytelling skills in the areas of print, broadcast and electronic communication.

The concentration requires a total of 36 hours of which 9 are core requirements, 12 are in the multimedia core, 6 are thesis or applied research project, 6 are electives in the Mass Communications graduate program and 3 are in an outside requirement.

Core Requirements:
MMC 6930 – Introduction to Mass Communication Research (3)

MMC 6401 – Mass Communication Theory (3)

MMC 6421 – Research Methods (6)

Concentration Requirements (12 hrs):
MMC 6939 Media Management
JOU 5342 Multimedia Journalism (3)
JOU 6349 Advanced Multimedia Journalism (3)
MMC 6612 Law and Mass Media

Thesis OR MMC 6950 Applied Research Project (3) – 6 hrs

Electives (6)
1 Outside Requirement (3)
EME 6939 Web Design and Multimedia

Total hours: 39

Concentration in Strategic Communication Management
The Strategic Communication Management Concentration emphasizes the integration of organizational communication functions such as public relations and advertising into a single communication management function.
This program requires 39 hours of course work, including six (6) hours of thesis or six (6) hours of an applied research project, twelve (12) hours of the mass communications core, fifteen (15) hours of the strategic communication core, three (3) hours in management or leadership studies, and six (6) hours of electives.

Students in both concentrations are required to take a comprehensive written examination after they have completed at least 21 hours of mass communications course work, including the required courses for each concentration of study.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

MATHEMATICS PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
For Teaching Assistants, International and Financial Aid Applicants:

Fall:	Feburary 1
Spring:	August 1

For Domestic applicants (US citizens or permanent residents) without financial aid or Teaching Assistant applications:

Fall:	March 15
Spring:	October 1

Minimum Total Hours:	30
Program Level:	Masters
CIP Code:	27.0101
Dept Code:	MTH
Program (Major/College):	MTH AS

Concentrations available in:
Pure and Applied (PAA)

Also offered as a 5-year program

CONTACT INFORMATION

College:	Arts and Sciences
Department:	Mathematics and Statistics
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The Department of Mathematics at the University of South Florida, Tampa Campus, is composed of approximately thirty faculty who do research in a variety of fields, and teach courses ranging from the freshman to the doctoral level.

The Department serves as the editorial base for the international journals: *Abstract and Applied Analysis* and *Journal of Theoretical Probability.* The Center for Mathematical Services within the department provides lectures, special programs for secondary students, and in service training programs in mathematics.

Some graduate courses are organized into Core and Elective Sequences as follows:

Core Sequences:
Algebra: MAS 5107, 5311, 5312
Analysis: MAA 5306, 5307, 5616
Mathematical Statistics: STA 5326, 6326
Topology: MTG 5316, 5317

Elective Sequences:
Applied Mathematics: three courses, one from each group listed below:

(Group A) MAP 5407, 5345
(Group B) MAA 5405, MAT 5932 (MAD 4401)
(Group C) MAP 6205, MAT 6932 (Dynamical Sys II)

Combinatorics:	MAD 6206, 6207
Complex Analysis:	MAA 6406, 6407
Statistical Methods:	STA 5166, 6167
Dynamical Systems:	MAT 5932 (I), 6932 (II)
Foundations:	MHF 5306, 6307
Linear Models and Multivariate Analysis:	STA 6208, 6356
Nonlinear Analysis:	MAP 5316, 5317
Ordinary Differential Equations:	MAP 6336, MAT 5932 (Dynamical Systems I)
Partial Differential Equations:	MAP 5345, 6356
Probability:	STA 5446, 6447
Stochastical Processes and Time Series Analysis:	STA 6206, 6876
Theory of Computing:	MHF 5306, MAD 6616

For degree requirements, each course from the Elective Sequence list above counts towards only one Elective Sequence. A qualifying examination based on a Core Sequence is called a Core Qualifying Examination. The syllabus for each examination is available from the Department. Core Qualifying Examinations are offered in January, May and September. A student who passes a Core Qualifying Examination at Ph.D. level will be considered to have completed the corresponding Core

Sequence. Credit hours of MAT 6908 Independent Study, MAT 6939 Graduate Seminar, and MAT 6911 / 7912 Directed Research, earned before passing two Core Qualifying Examinations at Ph.D. level, do not count towards M.A. or Ph.D. degree. These courses, MAT 6908, 6911, 6939 and 7912, however, can be taken by a student before passing two Core Qualifying Examinations at Ph.D. level, with an approval from the Graduate Program Director, and also from the Seminar Organizer for MAT 6939. The course work for more than one credit hour for MAT 6939 needs an approval from the Graduate Committee.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Algebra, Analysis, Discrete Mathematics, Partial Differential Equations, Probability, Statistcs, and Topology, including the following fields: Applied Mathematics, Approximation Theory, Combinatorics, Computational Statistics, Control Theory, DNA computing, Dynamical Systems, Graph Theory, Knot Theory, Nonlinear Analysis, Number Theory, Special Functions, Theoretical Computer Science, and other areas.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as general university requirements plus:

1. a Bachelor's degree or equivalent in mathematical sciences or related area
2. at least a 650 quantitative score on the GRE
3. at least a 3.0 GPA in undergraduate math courses
4. A completed math department application form
5. Statement of goals

Students with insufficient preparation in real analysis and/or abstract algebra will be required to take MAA 4211 and/or MAS 4301 before or during their first semester of study.

DEGREE PROGRAM REQUIREMENTS

In *addition* to the University and College requirements, the students must fulfill the following requirements:

1. *Credit Hours*: A candidate must complete at least 30 credit hours in Mathematics. Specifically:
    a. The Mathematics graduate courses of 5000 level or higher, offered regularly for mathematics majors from the Mathematics department, are counted towards the 30-hour requirement.
    b. Up to 6 hours of 4000 level or higher courses, taken from our department or other departments at USF, may be counted towards the 30-hour requirement with approval by the Graduate Program Director and the Department Chairperson.
2. *Completion of Sequences*: A Candidate must complete two Core or Elective Sequences, at least one of which must be a Core Sequence, and receive at least a 3.0 average in each sequence.
3. *Thesis or Examination Requirement*: Each candidate for the M.A. degree must either be examined on a thesis or pass one of the written Core Qualifying Examinations.

A student who elects the thesis option must register for a minimum of six (6) credit hours in MAT 6971, only six (6) hours of which may be applied toward the 30-hour degree requirement. The comprehensive examination takes the form of an oral thesis defense, in which the candidate must demonstrate knowledge of the general subject area of the thesis.

A student who elects the exam option must pass one of the Core Qualifying Examinations at M.A. level. A student may repeat each examination once.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

MATHEMATICS PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
For Teaching Assistants, International and Financial Aid Applicants:

Fall:	Feburary 1
Spring:	August 1

For Domestic applicants (US citizens or permanent residents) without financial aid or Teaching Assistant applications:

Fall:	March 15
Spring:	October 1

Minimum Total Hours:	90
Program Level:	Doctoral
CIP Code:	27.0101
Dept Code:	MTH
Program (Major/College):	MTH AS

Concentrations available in:
Pure and Applied (PAA)
Statistics (STT)

CONTACT INFORMATION

College:	Arts and Sciences
Department:	Mathematics and Statistics
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

The Department of Mathematics at the University of South Florida, Tampa Campus, is composed of approximately thirty faculty who do research in a variety of fields, and teach courses ranging from the freshman to the doctoral level.

The Department serves as the editorial base for the international journals: *Abstract and Applied Analysis* and *Journal of Theoretical Probability.* The Center for Mathematical Services within the department provides lectures, special programs for secondary students, and in service training programs in mathematics.

Some graduate courses are organized into Core and Elective Sequences as follows:

Core Sequences:
Algebra: MAS 5107, 5311, 5312
Analysis: MAA 5306, 5307, 5616
Mathematical Statistics: STA 5326, 6326
Topology: MTG 5316, 5317

Elective Sequences:
Applied Mathematics: three courses, one from each group listed below.
(Group A) MAP 5407, 5345
(Group B) MAA 5405, MAT 5932 (MAD 4401)
(Group C) MAP 6205, MAT 6932 (Dynamical Sys II)

Combinatorics:	MAD 6206, 6207
Complex Analysis:	MAA 6406, 6407
Statistical Methods:	STA 5166, 6167
Dynamical Systems:	MAT 5932, 6932 (II)
Foundations:	MHF 5306, 6307
Linear Models and Multivariate Analysis:	STA 6208, 6356
Nonlinear Analysis:	MAP 5316, 5317
Ordinary Differential Equations:	MAP 6336, MAT 5932 (Dynamical Systems I)
Partial Differential Equations:	MAP 5345, 6356
Probability:	STA 5446, 6447
Stochastical Processes and Time Series Analysis:	STA 6206, 6876
Theory of Computing:	MHF 5306, MAD 6616

For degree requirements, each course from the Elective Sequence list above counts towards only one Elective Sequence. A qualifying examination based on a Core Sequence is called a Core Qualifying Examination. The syllabus for each examination is available from the Department. Core Qualifying Examinations are offered in January, May and September. A student who passes a Core Qualifying Examination at Ph.D. level will be considered to have completed the corresponding Core Sequence. Credit hours of MAT 6908 Independent Study, MAT 6939 Graduate Seminar, and MAT 6911 /

7912 Directed Research, earned before passing two Core Qualifying Examinations at Ph.D. level, do not count towards M.A. or Ph.D. degree. These courses, MAT 6908, 6911, 6939 and 7912, however, can be taken by a student before passing two Core Qualifying Examinations at Ph.D. level, with an approval from the Graduate Program Director, and also from the Seminar Organizer for MAT 6939. The course work for more than one credit hour for MAT 6939 needs an approval from the Graduate Committee.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Algebra, Analysis, Discrete Mathematics, Partial Differential Equations, Probability, Statistcs, and Topology, including the following fields: Applied Mathematics, Approximation Theory, Combinatorics, Computational Statistics, Control Theory, DNA computing, Dynamical Systems, Graph Theory, Knot Theory, Nonlinear Analysis, Number Theory, Special Functions, Theoretical Computer Science, and other areas.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

In addition to the M.A. program requirements, entrants to the Ph.D. Program must have a Master's degree in Mathematics or a strong enough background as determined by the Graduate Admissions Committee, and three letters of recommendation, at least two of which from mathematicians indicating an aptitude for doctoral study. See list below.

Program Admission Requirements

Same as general university requirements plus:

1. a Bachelor's degree or equivalent in mathematical sciences or related area
2. at least a 650 quantitative score on the GRE
3. at least a 3.5 GPA in graduate and/or upper undergraduate math courses
4. three letters of recommendation (two of which should be from college level math professors)
5. a completed math department application form
6. a statement of goals

DEGREE PROGRAM REQUIREMENTS

In *addition* to the University and College requirements, the students must fulfill the following requirements.

1. *Core Qualifying Examinations:* The student is required to pass two of the Core Qualifying Examinations at Ph.D. Level. A student is expected to complete both within 13 months after enetering the Ph.D. program unless an extension is granted by the Mathematics Graduate committee. A student may repeat each examiation once.

2. *Elective Qualifying Examiation*: After passing two Core Qualifying Examinations, the student will select a Dissertation Advisor and a Doctoral Committee will be appointed by the Department Chairperson. The Committee will determine a course of study leading to the written Elective Qualifying Examination, which may be based on one of the Elective Sequences above, possibly supplemented by other material. The syllabus for this examination, and the names of two examiners from the Faculty, must be approved by the Mathematics Graduate Program Director at least one semester before the examination is to take place. A student is expected to complete all three examinations within 25 months after entering the Ph.D. program unless an extension is granted by the Mathematics Graduate Committee. A student may repeat each examination once. The student will be admitted to candidacy after completion of the above two requirements.

3. *Completion of Four Sequences:* The student must complete four sequences from among Core and Elective Sequences with at least a 3.0 average in each sequence.

4. *Progress Evaluation*: Each Spring semester after admission to candidacy, the candidate shall give an oral presentation to the Doctoral Committee of the problem(s) under investigation. The presentation may also include a discussion of partial results. The Dissertation Advisor shall submit to the Department Chairperson a written report of the presentation.

5. *Dissertation*: Students admitted to candidacy are required to take at least 16 hours in MAT 7980 Doctoral Dissertation, with a minimium of 6 credits of dissertation hours accumulated during each previous 12-month period (previous 3 terms, e.g. Fall, Spring, Summer) until the degree is granted. The dissertation is expected to contain new mathematical results which are worthy of publication. Research towards the dissertation typically forms the major part of the work required for the Ph.D. in Mathematics.

The Final Oral Examination: The Final Oral Examination is also called the Dissertation Defense The department defers to the university requirements.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MICROBIOLOGY PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students:

Fall:	January 1 for full consideration; however applications are accepted to March 15 (U.S. Applicants) January 1 (International
Spring:	August 1

International Students:

Fall:	January 1
Spring:	July 1

Application must be completed by January 1 by applicants who wish to be considered for assistantships.

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 26.0503
Dept Code: BIO
Program (Major/College): MIC AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Biology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Biology was among the first departments to offer the Ph.D. degree at the University of South Florida. Currently, the Department of Biology is composed of the Division of Cell Biology, Molecular Biology and Microbiology (CMM) and the Division of Integrated Biology (IB). The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department's cell molecular, microbiologists are involved in cooperative research with their colleagues in Chemistry, Public Health, Nursing, and Medicine. Likewise, many of the Department's organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Geography, Marine Science, and the Environmental Science program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

Students interested in attending graduate school should contact potential professors to communicate their research ideas and establish that the professor will consider the studetn's application. The selection of a major professor includes acceptance of the student by the faculty member. Applicants should contact faculty conducting research in the student's area of interest well in advance of the application deadline.

For all master's students, the major professor and at least two additional faculty constitute the student's supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student's supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established

within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Divisional Graduate Director, Divisional Chairman, the College Dean and the Dean of the Graduate School must approve the Supervisory Committee. Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for two hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than nine graduate hours per semester.

A student must be registered for an appropriate load (in no case fewer than two graduate hours) in the college for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below "B" in structured courses required by the advisory committee will be dropped from the program. Registration in courses entitled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student's research plan. Students may not register in Thesis: Master's or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master's or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: Cell Biology, Molecular Biology, Microbiology, Conservation Biology, and Coastal Ecology

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1) Must have 3.0 GPA last 60 hours of B.S. degree

2) Must have 500V, 600Q, and 4.5 AW, on the GRE

3) All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.

4) Acceptance by a faculty member in the Biology Department is MANDATORY. We encourage students to contact faculty via email to indicate an interest in the research being conducted in their laboratory. We will make every effort to pair potential graduate students with appropriate faculty, however, your direct contact with individual faculty is recommended.

5) It is expected that candidates for the M.S./Ph.D. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.

Materials necessary for a complete application are listed below:

The following items should be submitted in the envelope provided to:

Biology Graduate Office
University of South Florida
4202 E. Fowler Ave – SCA110
Tampa, FL 33620-5150

1) Completed application form with a non-refundable $30 application fee. Send only checks or money order made payable to the "University of South Florida." The application and fee are valid for one year. Applications sent without the $30 application fee will not be processed. There are no waivers or deferments granted for this fee. PLACE CHECK IN THE ENVELOPE PROVIDED, SEAL ENVELOPE AND SIGN SEAL.

2) Two official transcripts in a sealed envelope from each post-secondary institution. Transcripts of work completed at USF will be secured by the Office of Admissions. Hence you need only to secure transcripts from other institutions for your application packet.

3) Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students must also complete the enclosed **Student Recommendation Form** and submit it to the recommenders. If recommenders choose, they may send letters directly to the Office of Graduate Admissions.

4) A brief essay stating your intended field of research and professional goals. Please indicate your specific research interests, in order that we may refer your application to appropriate biology faculty members. In your essay please list 2-3 biology faculty members that you would like to have review your file. Accepttance into the biology graduate program requires the identification of specific faculty who are willing to direct your research.

5) **Application for teaching assistantship.** Failure to return this form will result in you not being considered for a teaching position. Please attach resume to **Teaching Assistant Application**.

OFFICIAL test scores must be sent to USF directly from the testing agency. The University of South Florida's 4-Digit Institution Code is: 5828

6) Official GRE scores. This exam must have been taken within the last five years. If you have confirmation from ETS that scores have been sent to USF (USF must be listed), you may include a xerox copy of your confirmation notice in your application packet**.**

DEGREE PROGRAM REQUIREMENTS

The M.S. degree requires completion of
1. structured coursework
2. a research thesis or a review paper
3. passing a comprehensive examination.

The Master's Degree Requirements should be completed in two to three years. The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a five year period after matriculation. Master's students are encouraged to gain teaching experience in at least one undergraduate course in the department. Thesis research should be publishable and students are encouraged to publish their findings. Overall degree requirements for the Master of Science (M.S.) are as follows:

1. Credit hour requirement: a total of 30 semester hour credits beyond the Baccalaureate Degree is required.

2. No minimum requirement for structured course work exists. The graduate student, major professor and student's graduate committee will establish the specific course requirement for each graduate student

3. A minimum of eight (8) thesis research credit hours is required.

4. Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director

5. Successful completion of the oral examination. The exam should be taken at the end of the first year, or early in the second year of study. The examination is administered and evaluated by the student's graduate committee.

6. Seminar requirement: one presentation, excluding the thesis seminar and defense. Students should present posters or oral presentations based on their thesis research at national/regional professional meetings. The student's graduate committee must approve the presentation.

7. Submission of an acceptable thesis.

8. Presentation of the thesis seminar (BSC 6935) and successful defense of the thesis.

Non-Thesis - For students enrolled in the non-thesis program, a 30-hour minimum is required at the 5000-6000 level; 26 hours must be in formally structured courses; 15 structured hours must be in Biology. A review paper of a topic approved by the supervisory committee is required.

Comprehensive Examination.
A final comprehensive examination is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within 5 years after matriculation.

All Master's Degree students must present a seminar to the Department of Biology and must be enrolled in BSC 6935, during the final semester. The seminar should be a concise summary of the research completed to satisfy the requirements for the M.S. Degree. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student's graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

PHILOSOPHY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students
Fall: March 15
Spring: October 15
Financial Assistance: February 1

International Students
Fall: March 1
Spring: August 1
Financial Assistance: January 2

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 38.0101
Dept Code: PHI
Program (Major/College): PHI AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Philosophy

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact program for information or visit http://www.cas.usf.edu/philosophy/index.html

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Aesthetics
Analytic Philosophy
Ancient Greek Philosophy
Continental Philosophy
Epistemology
Ethics & Contemporary Moral Philosophy
Feminist Philosophy
Medieval Philospohy
Modern Philosophy
Philosophy of Mind
Philosophy of Science
Social & Political Philosophy
19th and 20th Century Philosophy

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as university plus the following documents must be submitted:

1. statement of purpose
2. three (3) letters of recommendation
3. A ten (10) page philosophy writing sample

In order to be competitive, applicants should submit GRE general test scores of 600V, 600Q and an analytic score of 5.0.

DEGREE PROGRAM REQUIREMENTS

Once admitted, students must successfully complete at least 30 credit hours in accordance with the following requirements:

1. Proseminar I (6 credit hours) and Proseminar II (6 credit hours)
2. Course in Symbolic Logic or Modal Logic (3 credit hours)
3. Coursework in the History of Philosophy from the list appearing in "Areas of Study and Coursework" (6 credit hours)
4. Coursework in Metaphysics, Epistemology, and Logic from the list appearing in "Areas of Study and Coursework" (3 credit hours)
5. Course in Value Theory from the list appearing in "Areas of Study and Coursework" (3 credit hours)
6. Coursework or an examination demonstrating reading proficiency in one of the following languages: ancient Greek, Latin, French, German, or a substitute approved by the Director of Graduate Studies and the Department Chair

7. Thesis (3 credit hours) OR A comprehensive examination on a required list of readings constructed by the candidate and a committee of examiners

Areas of Study and Coursework
Students will be required to meet the distribution of credit hours described below. While many of the courses could fall into two or more categories, the categories as stated should provide a comprehensive training in philosophy. When there is good reason to approve substitutions for the courses listed, the Director of Graduate Studies has the discretion to approve substitutions on a case-by-case basis. The Department Chair must also approve any substitutions.

History of Philosophy
(A minimum of six credit hours required for the M.A., courses must come from two different categories; a minimum of 12 credit hours required for the Ph.D. with at least one from each of the four categories)

I. Ancient and Medieval
- a. Plato
- b. Aristotle
- c. Topics in Ancient/Medieval Philosophy

II. Early Modern Philosophy
- a. Rationalists
- b. Empiricists
- c. Topics in Early Modern Philosophy

III. Kant

IV. 19th and 20th Century Philosophy
- a. Continental I: Phenomenology to Hermeneutics
- b. Continental II: Political Theory and Continental Social Theory
- c. Continental III: From Structuralism to Deconstruction
- d. Marxism
- e. Analytic Philosophy
- f. Topics in Twentieth Century Philosophy

Metaphysics, Epistemology, and Logic
(A minimum of three credit hours required for the M.A.; a minimum of nine credit hours required for the Ph.D.)

I. Seminar in Metaphysics
II. Seminar in Epistemology
III. Seminar in the Philosophy of Natural Science (including Math)
IV. Seminar in the Philosophy of Social Science
V. Seminar in Logic
VI. Modal Logic
VII. Philosophy of Language
VIII. Philosophy of Mind
IX. Topics in Contemporary Philosophy (if topic is in the area of metaphysics, epistemology, and logic)

Value Theory
A minimum of three (3) credit hours required for the M.A.; a minimum of nine (9) credit hours required for the Ph.D. Only one required value theory class may come from category II)

I. General Topics
- a. Seminar in Ethics
- b. Seminar in Social Philosophy
- c. Seminar in Political Philosophy
- d. Seminar in Aesthetics
- e. Topics in Feminist Philosophy

II. Specific Topics
- a. Seminar in the Philosophy of Religion
- b. Seminar in the Philosophy of Law
- c. Seminar in the Philosophy of History

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

PHILOSOPHY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students
Fall: March 15
Spring: October 15
Financial Assistance: February 1

International Students
Fall: March 1
Spring: August 1
Financial Assistance: January 2

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 38.0101
Dept Code: PHI
Program (Major/College): PHI AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Philosophy

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Contact program for information or visit http://www.cas.usf.edu/philosophy/index.html

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Aesthetics
Analytic Philosophy
Ancient Greek Philosophy
Continental Philosophy
Epistemology
Ethics and Contemporary Moral Philosophy
Feminist Philosophy
Medieval Philosophy
Modern Philosophy
Philosophy of Mind
Philosophy of Science
Social & Political Philosophy
19th and 20th Century Philosophy

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as university plus the following documents must be submitted:

1. statement of purpose
2. three (3) letters of recommendation
3. A ten (10) page philosophy writing sample

In order to be competitive, applicants should submit GRE general test scores of 600V, 600Q, and an analytic score of 5.0.

DEGREE PROGRAM REQUIREMENTS

Once admitted, students must successfully complete at least 90 credit hours in accordance with the following requirements:

1. Proseminar I (6 credit hours) and Proseminar II (6 credit hours)
2. Course in Symbolic Logic or Modal Logic (3 credit hours)
3. Coursework in the History of Philosophy from the list appearing in “Areas of Study and Coursework” (12 credit hours)
4. Coursework in Metaphysics, Epistemology, and Logic from the list appearing in “Areas of Study and Coursework” (9 credit hours)
5. Coursework in Value Theory from the list appearing in “Areas of Study and Coursework” (9 credit hours)
6. Coursework or an examination demonstrating reading proficiency in two of the following languages: ancient Greek, Latin, French, German. A substitution for one of these languages may be approved by the Director of Graduate Studies and the Department Chair

7. 12 credit hours in area(s) of doctoral research

8. A comprehensive examination on a required list of readings constructed by the candidate and a committee of examiners

9. A written prospectus for the dissertation and an oral defense of this prospectus

10. A written dissertation and an oral defense of this dissertation

Areas of Study and Coursework
Students will be required to meet the distribution of credit hours described below. While many of the courses could fall into two or more categories, the categories as stated should provide a comprehensive training in philosophy. When there is good reason to approve substitutions for the courses listed, the Director of Graduate Studies has the discretion to approve substitutions on a case-by-case basis. The Department Chair must also approve any substitutions.

History of Philosophy
(A minimum of 6 credit hours required for the M.A., courses must come from two different categories; a minimum of 12 credit hours required for the Ph.D. with at least one from each of the four categories)

I. Ancient and Medieval
- a. Plato
- b. Aristotle
- c. Topics in Ancient/Medieval Philosophy

II. Early Modern Philosophy
- a. Rationalists
- b. Empiricists
- c. Topics in Early Modern Philosophy

III. Kant

IV. 19th and 20th Century Philosophy
- a. Continental I: Phenomenology to Hermeneutics
- b. Continental II: Political Theory and Continental Social Theory
- c. Continental III: From Structuralism to Deconstruction
- d. Marxism
- e. Analytic Philosophy
- f. Topics in Twentieth Century Philosophy

Metaphysics, Epistemology, and Logic
(A minimum of three credit hours required for the M.A.; a minimum of nine credit hours required for the Ph.D.)

I. Seminar in Metaphysics
II. Seminar in Epistemology
III. Seminar in the Philosophy of Natural Science (including Math)
IV. Seminar in the Philosophy of Social Science
V. Seminar in Logic
VI. Modal Logic
VII. Philosophy of Language
VIII. Philosophy of Mind
IX. Topics in Contemporary Philosophy (if topic is in the area of metaphysics, epistemology, and logic)

Value Theory
A minimum of three credit hours required for the M.A.; a minimum of nine credit hours required for the Ph.D. Only one required value theory class may come from category II)

I. General Topics
- a. Seminar in Ethics
- b. Seminar in Social Philosophy
- c. Seminar in Political Philosophy
- d. Seminar in Aesthetics
- e. Topics in Feminist Philosophy

II. Specific Topics
- a. Seminar in the Philosophy of Religion
- b. Seminar in the Philosophy of Law
- c. Seminar in the Philosophy of History

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

PHYSICS PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	February 15
Spring:	September 1
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 40.0801
Dept Code: PHY
Program (Major/College): PHY AS

Concentrations available in:
Atmospheric Physics (APZ)
Atomic and Molecular Physics (AMZ)
Laser Physics (LPZ)
Materials Physics (MPZ)
Medical Physics (MEZ)
Optical Physics (OPZ)
Semiconductor Physics (SCZ)
Solid State Physics (SSZ)

CONTACT INFORMATION

College: Arts and Sciences
Department: Physics

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact program for information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university plus three letters of recommendation and a statement of purpose. GRE General Test scores required, GRE Physics Subject Test scores recommended.

DEGREE PROGRAM REQUIREMENTS

Students admitted to the graduate program in Physics, will consult with the Physics Director of Graduate Studies, who will be the student's course advisor and monitor the student's progress. After a decision has been made concerning the student's academic goals, the duties of graduate advising will be assumed by the major professor and the supervisory committee appointed by the department chairperson. In keeping with the student's academic goals, the supervisory committee will determine the appropriate course of study and examinations required for graduation for both the thesis and non-thesis options.

Thesis
The student desiring the M.S. degree with a thesis is required to take a minimum of 30 credits, no more than six (6) of which may be for PHY 6911, PHY 6935, and PHY 6971. Of these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must present a thesis acceptable to the supervisory committee covering research work amounting to a minimum of six (6) units of credit in PHY 6971.

Non-Thesis
The student desiring the M.S. degree without a thesis is required to take a minimum of 30 credits, no more than three of which may be for PHY 6909, PHY 6911, PHY 6935, and PHY 6971. Of these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must pass a comprehensive examination.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

PHYSICS (APPLIED PHYSICS) PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 1
Spring:	September 1
Summer:	March 1

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 40.0801
Dept Code: PHY
Program (Major/College): APD AS

Concentrations available in:
Atmospheric Physics, Atomic and Molecular Physics, Computational Physics, Laser Physics, Materials Physics, Bio/Biomedical Physics, Optical Physics, Semiconductor Physics, Solid State Physics

CONTACT INFORMATION

College: Arts and Sciences
Department: Physics

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

This program emphasizes the practical, engineering applications of theoretical and fundamental physical concepts. The program encompasses the areas of laser physics, materials physics, computational physics, environmental physics and sensors, biomedical physics and imaging science.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as University plus three letters of recommendation and a statement of purpose. GRE scores required.

DEGREE PROGRAM REQUIREMENTS

The program requires a total of 90 credit hours distributed as follows:

Core Courses in theoretical and applied areas 24 hrs
Lab training 6 hours
Electives 9 hours
Directed and Dissertation Research 45-51 hours

An important feature of this program is a course in laboratory measurement and instrumentation and a field-site industrial practicum, which comprise the six hours of lab training.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

PHYSICS / ENGINEERING SCIENCE JOINT PROGRAM

Dual Degree (Joint degree)
Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines: See listings for Physics and Engineering Science

Minimum Total Hours: 51
Program Level: Masters
CIP Codes: 40.0801 and 14.0101
Dept Codes: PHY and ESB
Program (Major/College): PHY AS and EGC EN

CONTACT INFORMATION

Colleges: College of Arts and Sciences
College of Engineering
Departments: Physics, Engineering Science

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact the program for information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
See listings for Physics and Engineering Science.

Program Admission Deadlines
See deadlines for Physics and for Engineering Science.

DEGREE PROGRAM REQUIREMENTS

Contact the program for information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

PHYSICS / ENGINEERING SCIENCE JOINT PROGRAM

Dual Degree (Joint degree)
Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines: See listings for Physics and Engineering Science

Minimum Total Hours: 90
Program Level: Doctoral
CIP Codes: 40.0801 and 14.0101
Dept Codes: PHY and ESB
Program (Major/College): PHY AS and EGC EN

CONTACT INFORMATION

Colleges: Arts and Sciences, Engineering
Departments: Physics, Engineering Science

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain the Ph.D. in Engineering under the dissertation direction of a Physics Director of Graduate Studies.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

See listings for Physics and Engineering Science.

Program Admission Deadlines

See deadlines for Physics and for Engineering Science

DEGREE PROGRAM REQUIREMENTS

Contact the program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

POLITICAL SCIENCE PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 45.1001
Dept Code: GIA
Program (Major/College): POL AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Government and International Affairs
Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The graduate program leading to the M.A. in Political Science is designed to offer advanced general instruction in Political Science. It prepares its graduates for positions of responsibility in the public and private sectors, as well as in research, teaching, and study at the doctoral level. For instructional purposes, the graduate curriculum in Political Science has been divided into three fields:

Field 1 Comparative Government and Politics
(courses with a CPO prefix)

Field 2 International Relations
(courses with an INR prefix)

Field 3 Public Policy
(courses with a PUP, POS, POT, URP, or PAD prefix)

Students select one field as a major area and another field as a minor area. They must consult with the graduate coordinator to map out a course plan.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as university plus:

1. three (3) letters of recommendation
2. and a 500 word statement of purpose
3. must have an undergraduate background in political science.

DEGREE PROGRAM REQUIREMENTS

A minimum of 36 hours of graduate level course work distributed according to the following five categories:

1. Required Research Methods Sequence (6 hours): POS 6735 (3), POS 6736 (3)

2. Major field (15 hours): Core course in major area (either CPO 6901, INR 6007 or PUP 6007, and 4 additional courses.

3. Minor field (9 hours): Core course in major area (either CPO 6991, INR 6007 or PUP 6007, and 2 additional courses.

4. Thesis (Minimum of 6 hours): POS 6971.

To earn an MA in Political Science students are required to complete a thesis that provides new insight into a relevant topic in political science or international studies. As students approach the thesis stage, they need to compose a thesis committee consisting of a major professor, who must be a member of the Department of Government and International Affairs, and two readers. One of the two readers can be from another department, but that person must first be approved by the program director. The thesis committee must approve proposals before students embark on their projects. Students must prepare a written thesis and defend their work in a formal oral presentation before their committee.

Comprehensive Examination - After finishing course work each student must pass a written comprehensive examination covering his or her major and minor fields. These examinations must be taken before completion of the thesis and thesis defense. Students cannot enroll in thesis hours before the semester they have signed up to take their exams.

Course Listings-

CPO 5934	CPO 6036	CPO 6091
INR 5012	INR 5086	INR 6007
INR 6036	INR 6107	
PAD 6060	PAD 6275	PAD 6307
PAD 6338	PAD 6339	PAD 6355
POS 5094	POS 5155	POS 6045
POS 6095	POS 6127	POS 6157
POS 6415	POS 6427	POS 6455
POS 6607	POS 6698	
POT 5626	POT 6007	
PUP 5607	PUP 6007	
URP 6056		

Students may take a maximum of 3 hours of Independent Study (POS 6909) and 3 hours maximum of Directed Research (POS 6919)

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

PSYCHOLOGY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Students are not admitted to a terminal M.A. degree in Psychology. See deadlines for Ph.D. in Psychology

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 42.0101
Dept Code: PSY
Program (Major/College): PSY AS

Concentrations available in:
Clinical Psychology (PSC)
Cognitive and Neural Sciences (PCN)
Industrial-Organizational Psychology (PSI)

CONTACT INFORMATION

College: Arts and Sciences
Department: Psychology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognitive and Neural Sciences, and Industrial-Organizational. Each of these areas offer Ph.D. level training in the following areas of special expertise.

Clinical – Personality and Psychopathology, Psychological Assessment and Interventions, Health Psychology, Addictive Behaviors, Clinical Child Psychology, Clinical Neuropsychology.

Cognitive and Neural Sciences – Behavioral Neuroscience, Cognition, Judgment and Decision Making, Language Development, Memory, Perception, Social. In addition, with faculty in Communication Sciences and Disorders, the Cognitive and Neural Sciences faculty offer a specialization in Speech/Language/Hearing Sciences.

Industrial-Organizational – Selection, Training and Evaluation of Organization Members, Job Analysis, Motivation and Satisfaction, Occupational Health Psychology, Organizational Theory, Leadership, Organizational Change. Methodological offerings across areas cover Psychometrics, Statistics, Factor Analysis, Structural Equation Modeling, and Research Design.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; Clinical Program: American Psychological Association, and the Academy of Psychological Clinical Science.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Not a terminal MA. See Ph.D. Requirements.

DEGREE PROGRAM REQUIREMENTS

The Department of Psychology does not admit students seeking a terminal M.A. degree in Psychology. The student must complete 30 hours of graduate Psychology courses and all area requirements. All students are required to complete two quantitative methods courses (PSY 6217A, PSY 6217B). In addition, the student must complete core courses required by their program areas. The student must successfully pass an oral examination.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

PSYCHOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall:

Clinical:	December 15
Cognitive and Neural Sciences:	January 15
Industrial-Organization:	January 15

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 42.0101
Dept Code: PSY
Program (Major/College): PSY AS

Concentrations available in:
Clinical Psychology (PSC)
Cognitive and Neural Sciences (PCN)
Industrial-Organizational Psychology (PSI)

CONTACT INFORMATION

College: Arts and Sciences
Department: Psychology

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognitive and Neural Sciences, and Industrial-Organizational. Each of these areas offer Ph.D. level training in the following areas of special expertise.

Clinical –
Personality and Psychopathology, Psychological Assessment and Interventions, Health Psychology, Addictive Behaviors, Clinical Child Psychology, Clinical Neuropsychology.

Cognitive and Neural Sciences –
Behavioral Neuroscience, Cognition, Judgment and Decision Making, Language Development, Memory, Perception, Social. In addition, with faculty in Communication Sciences and Disorders, the Cognitive and Neural Sciences faculty offer a specialization in Speech/Language/Hearing Sciences.

Industrial-Organizational –
Selection, Training and Evaluation of Organization Members, Job Analysis, Motivation and Satisfaction, Occupational Health Psychology, Organizational Theory, Leadership, Organizational Change. Methodological offerings across areas cover Psychometrics, Statistics, Factor Analysis, Structural Equation Modeling, and Research Design.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; Clinical Program: American Psychological Association, and the Academy of Psychological Clinical Science.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

University requirements plus a personal goals statement and three letters of recommendation, strong preference for GRE V and Q scores each at the 50th percentile or better, upper division undergraduate GPA 3.4 or better.

DEGREE PROGRAM REQUIREMENTS

The Ph.D. in Psychology is offered in the fields of Clinical, Cognitive and Neural Sciences, and Industrial/Organizational Psychology.

Advanced doctoral-level requirements are determined by the student and the Ph.D. committee. In addition to the completion of all M.A. requirements in Psychology or its equivalent:

1) The Cognitive and Neural Sciences and Industrial-Organization programs require the student to take a graduate minor. A minor program of study, composed of work done outside the student's field

of concentration and including a minimum of two appropriate graduate level courses, is required by the department for admission to Ph.D. candidacy. The minor must be approved by the student's Ph.D. committee and the Department of Psychology.

2) Successful completion of a comprehensive examination or major area area paper.

3) A one-year internship in an approved clinical facility for Ph.D. Students in the Clinical Psychology Program.

4) Six months of internship in approved industrial or community agencies as available for Ph.D. Students in the Industsrial/Organizational Psychology Program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

PUBLIC ADMINISTRATION PROGRAM

Master of Public Administration (M.P.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 42-51
Program Level: Masters
CIP Code: 44.0401
Dept Code: GIA
Program (Major/College): PAD AS

Also offered as:
A Doctoral Minor in Public Administration

CONTACT INFORMATION

College: Arts and Sciences
Department: Government and International Affairs

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Public Administration Program offers a multi-disciplinary course of study leading to the Master of Public Administration (M.P.A.). The M.P.A. degree is designed primarily to prepare students for successful leadership roles and management careers in the public (i.e., governmental and quasi-governmental organizations) and non-profit sectors. Students enrolled in the M.P.A. Program pursue careers in local, state, or federal agencies of government, non-profit organizations, and special service districts. Additionally the M.P.A. degree prepares individuals for further academic study leading to a doctorate in Public Administration, a Ph.D. in Public Policy and Administration, as well as a variety of other disciplines.

Those employed in public management positions may wish to pursue the M.P.A. in order to broaden educational backgrounds to prepare for increased job responsibilities, or to change career paths. Such in-service students currently make up the majority of the M.P.A. student body.

The Public Administration Program also offers courses of study leading to a Graduate Certificate in Public Management (G.C.P.M.) and Graduate Certificate in Nonprofit Management (G.C.N.M.). These programs are designed for individuals who wish to acquire knowledge of public and nonprofit management theory and practices, but who do not find it necessary or feasible to pursue the M.P.A. degree. The M.P.A. Program also serves pre-service students who have recently completed a bachelor's degree, who wish to gain entry to a professional career track. Students admitted to the M.P.A. are not eligible for the Graduate Certificate in Public Management.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; the National Association of Schools of Public Affairs and Administration (NASPAA).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Admission decisions to the M.P.A. Program are based on an overall assessment of the applicant's potential for successfully completing the M.P.A. degree. General admission criteria include scores obtained on the Graduate Record Examination (GRE), performance as an undergraduate student, life experience/work, and letters of recommendation. Specific criteria are:

1. Completion of a Bachelor's degree from a regionally accredited university.

2. The University of South Florida requires a 3.00 (B) grade point average (calculated using grades earned for all coursework completed during junior and senior years of undergraduate study), and GRE scores of 500V, 500Q, 4.0AW or better preferred. This provision applies to all applicants, including those who have already completed courses in the MPA curriculum. Regardless of GPA, those who score 850 or below on the GRE, are required to retake the exam.

3. Two letters of recommendation, one from a faculty member familiar with the applicant's academic performance and potential. Should the applicant be unable to provide the letter from a former professor,

with the director's approval, letters from other sources will be accepted.

4. The submission of a one-page career statement detailing the applicant's career goals and aspirations, including ways in which the applicant believes the M.P.A. degree can help to facilitate the stated goals.

5. A statement, if applicable, describing the applicant's current and/or past managerial work experience in the public or non-profit sectors.

6. Approval by the M.P.A. Admissions Committee and, if deemed necessary, an admissions interview. Applicants lacking the background necessary for graduate study in the M.P.A. Program may be asked to take additional undergraduate courses prior to admission.

7. The GRE requirement may be waived under certain conditions:

- Applicant already possesses a graduate degree from a regionally accredited university
- A written application by the student and a current resume indicating senior level experience
- Five years or more of practical, professional experience at a senior level (to be determined upon review of documentation by the admissions committee)
- Documentation of past experience through letters of recommendation from senior management, and
- Approval of the Public Administration Admission Committee; decision to be made on a case by case basis. (Additional documentation and a personal interview may be required)

DEGREE PROGRAM REQUIREMENTS

The M.P.A. required curriculum is 42-51 credit hours. All students must complete a core of nine courses (27 hours) and either four or six courses (12-18 hours) in elective coursework selected in consultation with an advisor. Students with appropriately documented administrative work experience commensurate with their career goals may not be required to complete an internship in a public or nonprofit agency. However, students without practical administrative experience in a public or nonprofit sector must complete an internship (6 hours).

The number of elective courses required depends upon the exit option selected by the student. The Problem Report exit option requires four (4) elective courses, as well as registration for PAD 6909, Problem Report for three (3) hours. The Capstone course exit option requires students take 6 elective courses, one of which will be PAD 6056, The Practice of Public Management.

At least 24 credit hours must be taken at the 6000 level. A minimum of 27 credit hours must be taken in formal, regularly scheduled classes. Courses at the 5000 level are accepted for credit toward the M.P.A. degree.

Core Courses
PAD 5700 Research Methods in Public Administration
PAD 6060 Public Administration Theory and Practice
PAD 6041 Ethics and Public Service
PAD 6227 Public Budgeting
PAD 6307 Policy Analysis, Implementation, and Program Evaluation
PAD 6417 Human Resources Management
PAD 6703 Quantitative Aids for Public Managers
PAD 6710 Public Information Management
PAD 6275 Political Economy for Public Managers

Electives (12-18 credit hours)
Each student must take 12-18 elective credit hours depending on the exit option chosen. Students should refer to the MPA website http://www.cas.usf.edu/pad/index.html for courses approved by the Program.

Internship (6 credit hours)
Pre-service students are required to complete a supervised internship (PAD 6946. Internship in Public Administration) in a governmental or non-profit organization. Internships provide students the opportunity to gain valuable experience in the public sector, thereby enhancing the academic course of study.

Internship credits must be earned while the student is in residence and before the student has completed regular course work requirements. Exceptions to this rule can only be made by the M.P.A. Director and must be made in advance. In-service students who have appropriate managerial/work experience commensurate with their career goals, may not be required to complete an internship. After consultation with the student, the M.P.A. Director may choose to waive the internship requirement.

Exit Requirements
Capstone Course (3 credit hours)
PAD 6056, The Practice of Public Management, is a final step before graduation. To be eligible to enroll in the capstone course, students must have completed a minimum of 39 credit hours (13 courses). This course is designed to provide the student with an opportunity to apply the knowledge and skills acquired during studies in the Public Administration Program. This course is designed to challenge students to test managerial proficiency, develop capabilities in synthesizing and

integrating conceptual frameworks, and to relate these skills to real managerial situations.

OR

PAD 6909 Problem Report (3 credit hours)
The Problem Report focuses on a significant administrative/policy problem confronting a public or nonprofit manager or agency. Upon completion, the student should have demonstrated the ability to identify a problem and a set of solutions, collect and analyze relevant data, and present and defend a recommended course of action intended to solve the problem. The student is expected to present and be prepared to defend these findings (both verbally and in writing) to a committee. This option is available only after the student has obtained faculty advisors and submitted a written proposal that complies with Problem Report requirements. Copies of Problem Report, the proposal guidelines, and expectations can be obtained from the M.P.A. Program or M.P.A. website. Students selecting this exit option must complete four elective courses. This requirement is to be completed near the end of the student's course of study. In-service students must select a problem for study that lies outside their immediate work-related responsibilities. The Problem Report Committee shall consist of at least two M.P.A. faculty and, where appropriate, and with permission of the examination committee, a qualified person outside the M.P.A. Program. A minimum grade of "B" must be achieved on the Problem Report. Students must register for PAD 6909 Problem Report, (3 credit hours).

Doctoral Minor in Public Administration
Students enrolled in doctoral level courses of study in other programs (e.g., Anthropology, Psychology, Education) can, with their program's approval, complete a doctoral minor in Public Administration.

Students should complete a minimum of four graduate public administration courses to be determined with the advice and consent of an M.P.A. faculty member or M.P.A. Director.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

REHABILITATION AND MENTAL HEALTH COUNSELING PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15

Minimum Total Hours: 60/150
Program Level: Masters
CIP Code: 51.2310
Dept Code: REH
Program (Major/College): REH AS

Concentrations available in:
Addictions and Substance Abuse Counseling (XAS)
Behavioral Health Counseling
Marriage and Family Therapy (XMF)
Rehabilitation Technology (XRT)

Also offered as a 5-year program

CONTACT INFORMATION

College: Arts and Sciences
Department: Rehabilitation and Mental Health Counseling

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Rehabilitation and Mental Health Counseling trains counselors to work with physically, mentally, emotionally, and chemically disabled individuals. Training emphasizes psychological, social, medical, and vocational aspects of disability, and also the development and refinement of personal adjustment counseling skills. Graduates with this M.A. are prepared for careers as both rehabilitation specialists and mental health counselors.

The Department offers only the M.A. degree. Most students are admitted after earning a baccalaureate degree in one of the behavioral, social, health-related, or educational disciplines (REH). A Five-Year Program (REF)Five-Year Program (REF) is available to undergraduates with strong academic credentials, and undergraduates interested in this program should contact the department during their sophomore year. The Department offers several areas of concentration: (1) Addictions and Substance Abuse Counseling; (2) Marriage and Family Therapy; (3) Rehabilitation Technology; and (4) Behavioral Health Counseling. Each student may elect to pursue a program of specialization in any of these areas. The Addictions and Substance Abuse counseling program is approved by the Certification Board for Addictions Professionals of Florida (CBAPF Approved Provider #179A)

The graduate program in Rehabilitation and Mental Health Counseling is fully accredited by the Council of Rehabilitation Education (CORE). Upon completion of the program, graduates are eligible to sit for the national examination to become a Certified Rehabilitation Counselor (CRC). With additional course work and 3 years' experience, graduates are also eligible to take the examination for state licensure as a Mental Health Counselor. For a complete description of the department and its program, visit the department's Web page at: http://www.cas.usf.edu/rehab_counseling/index.html

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university requirements plus:

1. Three letters of recommendation, and
2. A personal statement
3. GRE required
4. Interview may be required (on campus)

DEGREE PROGRAM REQUIREMENTS

The department offers both a thesis and a non-thesis program. There is no language requirement; however, a

comprehensive examination is required of all students. The following 54-hour core curriculum is consistent with national certification standards for rehabilitation counselors and must be taken by all students (post-baccalaureate, five-year, thesis, and non-thesis).

MHS 5080 (3)	MHS 5020 (3)	RCS 5780 (3)
RCS 6220 (3)	RCS 6300 (3)	RCS 6407 (3)
RCS 6408(3)	RCS 6440 (3)	RCS 6740 (3)
RCS 6825 (3)	RCS 6803 (6)	RCS 5480 (3)
RCS 5450 (3)	RCS 6510 (3)	RCS 6930 (6)
RCS 5035 (3)		

Non-Thesis
Students in the non-thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (REH) and 150 hours in the Five-Year Program (REF). Electives may be taken from Rehabilitation and Mental Health Counseling offerings or from offerings outside the department with the consent of an advisor.

Thesis
All students are initially admitted to the non-thesis program. Admitted students may subsequently apply to the faculty for a thesis program. Students in a thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (54-hr.) core curriculum plus a minimum of three (3) hours of RCS 6970), and no less than 150 hours in the

Five-Year Program (including 54-hour core curriculum plus three (3) hours of RCS 6970).

Additional hours to complete the minimum of 150 hours for students in the Five-Year Program may be elected from other Rehabilitation and Mental Health Counseling offerings or from related programs with the consent of the advisor. An oral defense of the thesis is required.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

RELIGIOUS STUDIES PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 38.0201
Dept Code: REL
Program (Major/College): REL AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Religious Studies

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. degree in Religious Studies provides opportunities for students with backgrounds in the scholarly study of religion to expand their knowledge of the social, cultural, and historical contexts of religion, to develop a greater in-depth knowledge of particular religious traditions, and to acquire proficiency with a wide variety of pertinent methodologies and theoretical perspectives. This degree serves the needs of students interested in teaching or counseling. It will be of special value to those interested in pursuing a doctorate in religious studies. For those interested in pre-collegiate level teaching, a dual degree in the M.A. in Religious Studies and M.A. in Education is available.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Hebrew Bible, New Testament, Formative Christianity, Formative Judaism, Christian Apocrypha, Gnosticism, Biblical languages, History of Judaism, Jewish Studies, the History of Christianity, Material Culture and Religion, Biblical Archaeology, Greco-Roman Religions, Buddhism, Southeast Asian Religions, Classical Islam, Islam in America, Afro-American Islam, Women in Islam, Hinduism, Chinese Religion, Post Modern Philosophy in the study of Religion, Comparative Literature and Cultural Studies in Religion, Religious Ethics, Religion, Ethics, and Society, Comparative Religion, Goddess Religion, Religion and Medicine, Religion in America, New Religions, Religion and Culture, Religion and Public Policy, Afro-American Religious History; Women and Religion; Religious Mysticism; Contemporary Religious Thought; African Religion; Liberation Theology and Religion, Religious Utopianism, post-Holocaust Jewish and Christian Thought, Religion and Modernization, Religion and Law, Biomedical Ethics, Religion and Genetic Engineering.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university plus:

1. Three (3) letters of recommendation, and
2. A writing sample
3. GRE required, but no minimum specified

DEGREE PROGRAM REQUIREMENTS

Students select a major professor and develop a plan for completing a minimum of 36 credit hours, including a six (6) credit thesis project. The plan of study is subject to approval of the Graduate Committee. A majority of these courses will be in religious studies, although the plan may include approved courses in other departments. No more than 6 credit hours of 4000-level courses may be counted for graduate credit. There is no uniform language requirement; however, language skills may be required for particular areas of study. All students are required to demonstrate expertise in at least two religious traditions, as well as satisfactorily complete a written, comprehensive examination wherein they demonstrate competence in:

1) pertinent theoretical issues and research methodologies;
2) the analysis and interpretation of related texts, artifacts, and activities; and
3) social and historical contexts of the religions studied.

The Department of Religious Studies "Graduate Student Handbook" should be consulted for additional information about basic requirements and specific procedures.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

RELIGIOUS STUDIES / EDUCATION PROGRAM

Dual Degree Program
Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Closed for new admissions

Minimum Total Hours:	n/a
Program Level:	Masters
CIP Codes:	38.0201
Dept Code:	REL
Program (Major/College):	REL AS

CONTACT INFORMATION

Colleges:	Arts and Sciences and Education
Departments:	Religious Studies
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

Currently, no students are being admitted to this program

SECOND LANGUAGE ACQUISITION AND INSTRUCTIONAL TECHNOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 75
Program Level: Doctoral
CIP Code: 13.401
Dept Code: EDI
Program (Major/College): DLT EJ

Cross-listed under the College of Arts and Sciences, the College of Education and the Interdisciplinary Programs Sections.

CONTACT INFORMATION

Colleges: Education and Arts and Sciences
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This is an interdisciplinary program between the College of Education and the College of Arts and Sciences and combines the expertise of both faculties to provide a curriculum in pedagogy, world language education, second language acquisition, sociolinguistics, socio-cultural theory, instructional technology, and statistics, research design. The goal of the program is to prepare students for careers in academia.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Second Language Acquisition, Instructional Technology, Foreign Language Education, Distance Learning.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission Requirements

In addition to the general admission requirements under he advanced graduate education programs, applicants must:

1. Submit a "Statement of Purpose" relating their career goals specifically to this doctoral program and describing their experience with instructional technology and language teaching;
2. Supply a current curriculum vitae;
3. Provide 3 letters of recommendation from professors or other individuals who can attest to the applicant's experience and background;
4. Offer evidence of research experience or scholarly promise;
5. Meet with the graduate faculty for a personal interview;
6. Take a two-hour background assessment to assist faculty in planning the prospective student's program of studies.

Most students admitted to this program will:

1. Possess a Master's degree (or equivalent academic level) from a regionally accredited institution or its international equivalent;
2. present a minimum GPA of 3.50 (or international equivalent)
3. score at or above 500 on the GRE verbal reasoning and 4 on the GRE analytical writing section;
4. Submit a TOEFL score (550 paper-based, 250 computer-based, or 80 internet-based test).

The faculty will evaluate each applicant's dossier based on a composite of variables and goodness of fit with the program.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See

http://web.usf.edu/iav/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://admissions.grad.usf.edu/international .html.

DEGREE PROGRAM REQUIREMENTS

Program of Study: 75 credit hours - core courses (45-46 semester hours); electives 9-12 semester hours); dissertation (18 semester hours)

COURSES -See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

SOCIAL WORK PROGRAM

Master of Social Work (M.S.W.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Full-time Program:
Fall: February 15
Fall admission only

Part-time program: Tri-ennial admissions cycle. Contact School for further information.

Minimum Total Hours: 60/48
Program Level: Masters
CIP Code: 44.0701
Dept Code: SOK
Program (Major/College): SOK AS

Also offered as: Dual Degree – M.S.W./MPH

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Social Work

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The School of Social Work offers a program leading to a Master of Social Work (M.S.W.) degree. The program is fully accredited by the Council on Social Work Education. A dual-degree program is available with Public Health/Maternal and Child Health.

The primary objective of the program is preparation of the graduate for professional social work practice through acquisition of specialized knowledge and skills necessary for clinical practice with individuals, families, and groups. The secondary objectives of the M.S.W. program are:

1. to prepare students academically for pursuit of doctoral education in social work or related human service disciplines or professions;
2. to contribute to the needed supply of professionally educated clinical social workers in the Tampa Bay area, the state, the region, and the nation.

The M.S.W. program offers a specialized course of study in direct clinical practice. The program offers students a core curriculum, plus electives, and a supervised field experience designed to produce professionals with individual, family, and group practice skills. The M.S.W. program is designed to produce specific competencies for clinical practice. Graduates of the M.S.W. program should demonstrate:

1. practice competency in relationship skills;
2. knowledge of the interrelationships in the biological, psychological, and sociocultural factors in human life, including the impact of disease, injury, and emotional distress and their implications for social work practice;
3. skill in methods of scientific inquiry for the purpose of advancing professional knowledge and practice;
4. basic skill in the application of a range of social work treatment methodologies for the purpose of differential diagnosis and intervention;
5. practice competency in applying a biopsychosocial approach to the assessment of human problems;
6. practice competency in applying a biopsychosocial approach to treatment of human problems through individual, family, and group modalities;
7. a basic knowledge of managerial processes in social services, including program planning, personnel management, finance, and evaluation.

The M.S.W. program places great emphasis on standards of professional behavior and ethics in the practice of social work. Entrance into the M.S.W. program does not guarantee graduation from the program. Students admitted to the M.S.W. program must maintain a minimum GPA of 3.0, in all social work courses, with no grade below "C" counting toward graduation. Failure to

maintain the specified GPA or to exhibit responsible professional behavior determined by the School may result in suspension or dismissal from the program. Courses with grades below "C" must be repeated before progressing to the next sequence. Students must pass the comprehensive paper during the last semester in order to graduate from the program.

Students may pursue the M.S.W. program on either a full- or part-time basis. Both programs consist of 60 semester hours of study. Students should check directly with the School of Social Work for applications and timelines. The full-time program takes four semesters to complete; the part-time program lasts for 10 semesters. Students with recently earned B.S.W. degrees from programs accredited by the Council on Social Work Education may apply for advanced standing and be exempt from up to 12 hours of foundation coursework, thus enabling them to graduate with 48 credit hours. Both the full- and part-time programs are heavily sequenced and students must stay in sequence. All students must obtain professional liability insurance prior to enrollment in field

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools and Council of Social Work Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university plus:

1. School of Social Work Application
2. Three letters of recommendation
3. 750 word biographical sketch
4. Liberal arts pre-requisites
5. Interview may be required; experience in the field preferred.
6. GRE required

DEGREE PROGRAM REQUIREMENTS

Program Requirements (non-B.S.W. students)

A. Human Behavior and Social Environment Courses -
SOW 6105 (3) SOW 6114 (3)
SOW 6124 (3) SOW 6126 (2)

B. Social Work Practice Courses -
SOW 6342 (3) SOW 6305 (3)
SOW 6348 (3) SOW 6362 (4)
SOW 6368 (3) SOW 6375 (3)

C. Policy and Services Courses -
SOW 6235 (3) SOW 6236 (3)

D. Social Work Research Courses -
SOW 6405 (3) SOW 6438 (3)

E. Supervised Field Experience
For full-time students:
SOW 6534 (4) SOW 6535 (4) SOW 6536 (4)
For part-time students:
SOW 6553 (1) SOW 6545 (2) SOW 6557 (2)
SOW 6559 (2) SOW 6554 (1) SOW 6556 (2)
SOW 6558 (2)

F. Additional Requirements: Social Work Elective hours (6)
All electives outside of program must be approved.

Summary

Foundations Courses	12 hours
Advanced Courses	29 hours
Field Courses	12 hours
Electives	6 hours
Total	60 hours

Program Requirements (B.S.W. students eligible for Advanced Standing)
As space is available, students qualifying for admission with advanced standing can elect to begin coursework in either spring or summer semester.

A. Human Behavior and Social Environment Courses -
SOW 6114 (3) SOW 6124 (3) SOW 6126 (2)

B. Social Work Practice Courses -
SOW 6342 (3) SOW 6348 (3) SOW 6368 (3)
SOW 6375 (3)

C. Policy and Service Courses - SOW 6236 (3)

D. Social Work Research Courses -
SOW 6438 (3)

E. Supervised Field Experience -
for full-time students:
SOW 6534 (4) SOW 6535 (4) SOW 6536 (4)
for part-time students:
SOW 6553 (1) SOW 6555 (2) SOW 6557 (2)
SOW 6559 (2) SOW 6554 (1) SOW 6556 (2)
SOW 6558 (2)

F. Additional Requirements: Social Work Elective hours (6) All electives outside of program must be approved.

Summary

Advanced Courses	30 hours
Field Courses	12 hours
Electives	6 hours
Total	48 hours

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

SOCIAL WORK PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Cyclical admissions. Contact School of Social Work for further information.

Minimum Total Hours: 60
Program Level: Doctoral
CIP Code: 44.0701
Dept Code: SOK
Program (Major/College): SOK AS

Also offered as: M.S.W.
Dual Degree - M.S.W./MPH

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Social Work

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The School of Social Work offers a program leading to a Ph.D. in Social Work. The program is projected to begin in January 2005.

The Ph.D. program provides a course of study to prepare graduates for academic and research careers, to provide leadership in research and education committed to excellence in social work clinical practice and to provide leadership in the development of clinical services for diverse, vulnerable and underserved populations.

The Ph.D. program, requiring 60 hours of study, is offered via a nontraditional model of delivery. During the first three years, students complete thirty-six hours of course work in nine semesters. These courses are offered in intensive weekend sessions during the fall and spring semesters and in concentrated three-week summer sessions. Dissertation work (24 hours) is taken during the course of years four and five.

This doctoral program allows students to attend course work while maintaining full-time employment commitments.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university plus:

1. Bachelor's degree from an accredited university or college; undergraduate G.P.A. of 3.0 in last two (2) years of undergraduate work;
2. Master's degree from CSWE accredited social work program; G.P.A. of at least 3.5 (on a 4.0 scale);
3. GRE required, 500V, 500Q.
4. School of Social Work Application
5. Three recommendations addressing applicant's academic and professional capabilities;
6. Candidate's statement that describes reasons for seeking admission to the Ph.D. in Social Work program, career goals, and research interests;
7. Professional or academic writing sample providing evidence of scholarly abilities such as single-authored journal article, book chapter, technical report, thesis, grant application, or other comparable work.
8. Interview

DEGREE PROGRAM REQUIREMENTS

Thirty-six hours (36) of course work
Twenty-four hours (24) of dissertation work

Successful completion of qualifying examinations at the end of Semeter 6 admits the student to Candidacy

Successful defense of a dissertation consisting of original Social Work research

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SOCIOLOGY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 45.1101
Dept Code: SOC
Program (Major/College): SOC AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Sociology

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Sociology M.A. program provides a foundation in a broad range of sociological theories and research methods and an opportunity for pursuing specialized interests in elective Sociology courses, courses in other departments, and thesis research. Many of our M.A. recipients continue in sociology Ph.D. programs. Others teach in secondary schools and junior colleges, are employed in mental health services and research, in human resources management, and government organizations, or work as research consultants and market analysts.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Community and Identity Studies, Cultural Sociology, Social Psychology, Emotions, Family, Sex and Gender, Race/Ethnic/Minority Relations, Religion, Deviant Behavior/Social Disorganization, Science and Technology, Qualitative Methodology

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as university plus:

1. three letters of reference
2. a personal statement, and
3. an example of written work
4. GRE required – 45% or 450V, 52% or 4.5AW, 20% or 470Q

DEGREE PROGRAM REQUIREMENTS

The Sociology department has an option of a thesis or an internship for the capstone course. Both are carried out under the supervision of faculty members. Students electing a thesis option can take six of the required 36 hours as thesis hours. Students electing the internship option choose an appropriate internship site in consultation with their advisors.

Required courses for all students:
SYA 6126 (Sociology Theory)
SYA 6305 (Methods of Research)
SYA 6405 (Statistics)

The remaining 27 hours of electives must include at least 12 hours scheduled graduate courses in Sociology, no more than six (6) hours of advisor-approved 4000 level courses, no more than six (6) hours of SYA 6971 (thesis) or SYA 6912 (directed research) in preparation for thesis or internship. With an advisor's approval, a student may transfer up to six (6) hours of credit from another university or up to 12 hours of credit taken as a non-degree seeking student at USF. With an advisor's approval, up to nine (9) hours of elective credit may be taken in a department other than Sociology.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SPANISH PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33-36
Program Level: Masters
CIP Code: 16.0905
Dept Code: WLE
Program (Major/College): SPA AS

CONTACT INFORMATION

College: Arts and Sciences
Department: World Languages

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact Program for information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Must have:

1. undergraduate 3.0 GPA
2. 2-3 letters of recommendation,
3. a writing sample in Spanish, and
4. an oral interview in Spanish (can be done by phone)

DEGREE PROGRAM REQUIREMENTS

1) Proficiency in a second foreign language.
2) Satisfactory completion of a written comprehensive examination on Spanish language, literature, and civilization. This exam is based on a reading list.
3) FOW 6805 Bibliography
4) Course work following one of the plans listed below:
   a) Plan A 36 hours of graduate courses in Spanish . No thesis.
   b) Plan B 36 hours, of which 27-30 graduate hours must be in one language area and 6-9 in another area/department, as approved by the Spanish Graduate Program Director. No thesis.
   c) Plan C 27 semester hours in one language area plus a thesis, with 6 hours of SPW 6971
   d) Plan D 27 semester hours, with 18-21 hours of graduate-level course work in one language area and 6-9 in another area/department, as approved by the Spanish Graduate Program Director. In addition: a thesis, with 6 hours of SPW 6971.

OTHER INFORMATION

Three Summer M.A. program: Students may also receive the M.A. in Spanish by enrolling in courses at the Tampa campus during the summer. Generally the degree is received after three summers of study. Contact the Graduate Program Director for details.

Special Summer Programs Overseas
The Division of Languages and Linguistics, in cooperation with the International Affairs Center, offers several summer study programs overseas. These include study in Spain, and Costa Rica. For complete details, contact the program advisors or the International Affairs Center.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SPEECH-LANGUAGE PATHOLOGY PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: February 1

Minimum Total Hours: 61
Program Level: Masters
CIP Code: 51.0204
Dept Code: CSD
Program (Major/College): SPP AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication Sciences and Disorders

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Communication Sciences and Disorders is devoted to the study of normal and disordered human communication. Courses and clinical practice provide the student with principles, research methods and application of knowledge about the spectrum of verbal and non-verbal communication. Diagnosis and remediation of communicative problems dominate the clinical component of this course of study.

The Master of Science and Doctor of Audiology degrees offered through the Department are structured to meet the preparation requirements of the American Speech-Language-Hearing Association for the Certificate of Clinical Competence. The Speech-Language Pathology and Audiology programs are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. Council of Academic Accreditation of the American Speech-Language-Hearing Association.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. completion of a set of pre-requisite courses, also required for state licensure and national certification in speech-language pathology,
2. at least a 3.20 average on a 4.00 scale in all work attempted while registered as a upper division student working for a baccalaureate degree,
3. minimum GRE scores: 52nd percentile (approx. 460) on the verbal portion OR the 52nd percentile (approx. 4) pm the writing section AND the 32nd percentile (approx. 470) on the Quantitative section, taken within five years preceding application
4. three letters of recommendation
5. a letter of intent and resume, and
6. applicant must also demonstrate competency in communication skills as determined by the chairperson or delegate.

DEGREE PROGRAM REQUIREMENTS

All speech-language pathology majors must complete the following Core Requirements. (20 Credits)
SPA 5552 (3)
SPA 5408 (3)
SPA 6410 (3)
SPA 6559 (3)
SPA 6805 (3)
SPA 6571 (2)
SPA 6930 (3)

In addition to general University requirements for the master's degree, candidates must complete at least 38 hours of regularly scheduled academic coursework at the graduate level. Also, students will enroll in sufficient graduate clinical practicum to meet a minimum of 400 clock hours to fulfill the requirements of the American Speech-Language-Hearing Association. Of these hours, 25 hours must be in observation and at least 250 clock hours must be in the specialization area at the graduate level in which certification is being sought. Also required for graduation are the attainment of a 'B' or better in each graduate Speech-Language Pathology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of a comprehensive examination and successful completion of a thesis or non-thesis option. With the department chairperson's approval, a student with an existing

bachelor's degree and appropriate prerequisites may plan the degree program from among the following courses. Course selection is based on prescribed content areas within the discipline.

SPA 7150 (3)	SPA 5133C (3)	SPA 5303 (3)
SPA 6403 (3)	SPA 5408 (3)	SPA 5506 (1-8)
SPA 6106 (3)	SPA 6232 (3)	SPA 5204 (3)
SPA 6245 (3)	SPA 6322 (3)	SPA 6401 (3)
SPA 6410 (3)	SPA 6413 (3)	SPA 6415 (3)
SPA 6505 (1-9)	SPA 6559 (3)	SPA 6601 (1)
SPA 6805 (3)	SPA 6473 (3)	SPA 5552 (3)
SPA 6910 (var) or	SPA 6971 (var)	SPA 6571 (2)
SPA 6930 (3)	SPA 7931 (3)	SPA 6906 (var)

Thesis
In addition to nine (9) hours of coursework in the Professional Area, each student must complete at least 1 hour of SPA 6910 (Directed Research) and a minimum of 8 hours of SPA 6971 (Thesis) and submit an approved thesis.

Non-thesis
Each student must complete an additional eighteen (18) hours of coursework. Of these, at least twelve (12) hours must be from within a particulat concentration area while six (6) hours may be selected from another concentration area. The specialized coursework for the non-thesis option will be selected with the assistance of an advisor.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

STATISTICS PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
For Teaching Assistants, International and Financial Aid Applicants:

Fall:	February 1
Spring:	August 1

For Domestic applicants(US citizens or permanent residents) without financial aid or Teaching Assistant applicants:

Fall:	March 15
Spring:	October 1

Minimum Total Hours:	30
Program Level:	Masters
CIP Code:	27.0501
Dept Code:	MTH
Program (Major/College):	STC AS

CONTACT INFORMATION

College:	Arts and Sciences
Department:	Mathematics and Statistics
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

To be admitted for graduate study in the Statistics program, students should have at least 3.50 GPA average in courses taken during the last two years of their undergraduate or graduate studies.

To enter the MA in Statistics program, the student, must have a BA or BS in one of the following areas: Statistics, Mathematics, Physical Sciences, Engineering, or Business.

Students who expect to specialize in graduate work in statistics are advised to study as much mathematics as possible during their undergraduate years. Some interdisciplinary experience in natural sciences, engineering, economics, or psychology is also highly desirable. Students who do not have at least three semesters of successful course work in calculus will be required to complete additional courses in mathematics before being admitted. Prior course work in advanced calculus and in statistics is preferable, but not mandatory.

A score of 500 verbal plus 500 quantitative on the GRE exam and a quantitative score of at least 650 are required for admission. Students whose native language is not English must score at least 550 (paper based) or at least 213 (computer based) on the Test of English as a Foreign Language (TOEFL) exam. However, for students who have a BA or higher degree from an accredited U.S. institution for one year or longer, that requirement is waived.

International students whose native language is not English must submit satisfactory scores on the Test of Spoken English (TSE) or the SPEAK test to be eligible for teaching assignments. Students who score 50 or above are allowed to teach in the classroom. Those who score 45 to 50 are allowed to teach on the condition that they enroll concurrently in ENS 4502. (See the Graduate Catalog for more details.)

The University of South Florida and the Department of Mathematics and Statistics encourage applications from qualified individuals from all cultural, racial, religious, ethnic groups, gender, sex orientation, disabilities in accordance with all university regulations.

DEGREE PROGRAM REQUIREMENTS

Course Work Requirements for the Master's Program

A candidate must complete at least 30 credit hours for a MA. At least twenty hours must be in formal regularly scheduled course work, ten of which must be at the 6000 level. Up to 6 credit hours at the 4000 level or graduate courses from other departments at USF can be counted upon approval. A student who elects the thesis option must register for a minimum of 6 credit hours in MAT 6971, only 6 hours of which may be applied toward the 30-hour degree requirement.

The student must maintain a 3.00 average to remain a candidate for a degree. Failure to do this will result in being placed on probation. A letter from the major professor is required to remove a student from probation after he/she regains a 3.00 average.

The required, elective, and interdisciplinary courses for each of the programs are listed below. Department may waive some of the course requirements for those students who have taken equivalent course work at another institution.

Student's Graduate Committee

Students working toward a thesis degree will have the benefit of a committee of members of the graduate faculty, appointed by the program director/departmental chairperson and approved by the Dean of Graduate Studies. The committee will approve the course of study for the student and plan for research, supervise the research and any comprehensive qualifying exams, and read and approve the thesis for content and format.

Comprehensive Examination

Graduation from the masters program also requires the completion of both written and oral examinations. For the non-thesis option, there is no language or thesis requirement for the M.A. degree.

Written Comprehensive Examination The written exam is designed to cover material presented during the first year of graduate work. The purpose of the exam is to make sure the students have reviewed their first year's work before starting the second year and to point out weaknesses which should be overcome during their second year in order to graduate. Students are expected to pass this exam in at most two attempts.

More specifically, the material for the above examination will be taken primarily from the following sequences of courses Semester 1: STA 5166 Statistical Methods I and STA 5326 Mathematical Statistics I; Semester 2: STA 6167 Statistical Methods II and MAT 6932 Mathematical Statistics II, and STA 6208 Linear Statistical Models.

A. Non-thesis Option

- At least 30 hours of stat and math graduate courses. Specifically,

(A) The Statistics and Mathematics graduate courses of 5000 level or higher, offered regularly for statistics and mathematics majors from our department are counted towards the 30 hours requirement.

(B) Up to 6 hours of 4000 level or higher courses, taken from our department or other departments at USF, may be counted towards the 30 hours requirement with approval by the Statistics Faculty.

- Taking the sequences Statistical Methods and Mathematical Statistics with at least a "B" average for each sequence.
- Passing one Qualifying Exam on Statistical Methods or Math Statistics at master's level.

Under this degree option, the student is required to present a paper representing the creative component of the degree program. This may be, but is not restricted to, a literature review, a report of independent research, the design and (or) analysis of a sample survey or experiment, a report on consulting with research workers outside the department, or a report on the construction of a computer program requiring statistical numerical analysis.

B. Thesis Option

- At least 30 hours of stat and math graduate courses (see above for details).
- Taking the sequences Statistics Methods and Mathematical Statistics with at least a "B" average for each sequence.
- At least 6 hours in MAT 6971, Master's Thesis, only 6 hours of which are counted in the 30 hours requirement.
- Oral Defense of the Thesis
- Final Submission of Approved Thesis.

Under this degree option 6 research credits may be applied to the total of 30 required on the student's program of study. These reductions are made to allow the student sufficient time to complete a formal master's thesis. A master's thesis is a scholarly composition that demonstrates the ability of the author to do independent and creative work. It explores in some depth a problem or issue related to the major field of study. Although considerable variations in format and style are acceptable, precise expression, logical construction, and meticulous attention to detail are essential. A thesis in statistics should deal with some aspect of statistical methodology or theory, or the development of statistical models for a class of problems related to a scientific

question. While most theses will include a case study or example that involves scientific data, the analysis of a particular data set does not, alone, constitute the level of scholarly accomplishment required for a thesis.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

WOMEN'S STUDIES PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15 (March 1 for assistantship applications)
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 05.0207
Dept Code: WST
Program (Major/College): WST AS

CONTACT INFORMATION

College: Arts and Sciences
Department: Women's Studies

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. in Women's Studies requires the completion of 36 credit hours. The program has two tracks: a research option that requires a thesis and an applied option that requires an internship and subsequent analytic report on the internship experience. This format was designed to serve the needs of a variety of different categories of students desiring a graduate degree in Women's Studies. The thesis option is recommended for students who intend eventually to pursue a doctoral degree. The internship option is recommended for students who seek the M.A. as a terminal degree.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: n/a

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Same as general university requirements with the exception that applicants without training in Women's Studies are admitted on a conditional basis. In addition, GRE scores are required, and applicants must submit a personal narrative statement of purpose, a writing sample, and three letters of recommendation.

DEGREE PROGRAM REQUIREMENTS

The M.A. in Women's Studies requires the completion of thirty-six credit hours. These hours are divided as follows:

1. Four required core courses (12 cr. hrs.) chosen from WST 6001, WST 6406, WST 6560, WST 6002 and an additional course currently being offered under WST 6936 Selected Topics

2. Elective courses (18 cr. hrs.) to be selected from

    1. courses offered by the Department of Women's Studies, up to six cr. hrs. of which may be 4000-level courses;

    2. graduate courses on women and issues surrounding the intersection of gender/class/race offered by other departments;

    3. no more than one other graduate-level course approved by the graduate director.

Thesis
Six credit hours of thesis research, typically over two semesters, during which the student will develop a thesis prospectus approved by the student's thesis committee and complete a Master's thesis on the approved topic. The completed Thesis must be defended at an oral defense.

Non-thesis
Six credit hours of internship experience, typically over two semesters, in a human service agency or other institution or organization that deals primarily with women. The internship will be approved by the student's internship committee. The student will be required to write a narrative report describing the internship in detail and analyzing the experience in terms of appropriate theoretical frameworks. The completed narrative and experience must be defended as an oral defense.

Comprehensive Examinations
Each student must pass a written comprehensive examination. It is expected that a student will successfully complete the comprehensive examination prior to beginning thesis or internship work.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

Section 14

College of Arts and Sciences at USF St. Petersburg

University of South Florida
St. Petersburg - College of Arts and Sciences
140 Seventh Avenue S, DAV 100
St. Petersburg, FL 33701

Web address: www.stpt.usf.edu/coas/index.htm
Email: pewhite@stpt.usf.edu
Phone: 727-553-4156
Fax: 727-553-4526

Interim College Dean: James A. Gore
Associate Deans: Rebecca Johns
Mark Pezzo

Accreditation:
Contact College for Information.

Mission Statement:
The faculty of the College of Arts and Sciences at USF St. Petersburg devotes itself to leading students and the broader community to understand the social and physical environment of the past, the present and the future. Our mission consists in teaching people to think critically by analyzing and synthesizing ideas and information throughout a wide spectrum of disciplines that range from the literacy to the scientific. The college seeks to understand and establish connections among diverse disciplines, cultures, and peoples.

Its members, including faculty, staff and students, seek to nurture learning both within and beyond the classroom in time and space. They do so by acquiring and extending knowledge by honing skills that will serve them and their society throughout their lives: the ability to research, reason. Read, and write. By learning how to learn, our students will provide the intellectual capital needed by society now and in the future.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Arts (M.A.)
Master of Liberal Arts (M.L.A.)
Master of Science (M.S.)

Name of Programs Offered:
Master of Arts (M.A.) -
Mass Communications (Concentration in Journalism Studies)

Master of Liberal Arts (M.L.A.) -
Liberal Arts (Concentration in Florida Studies)

Master of Science (M.S.) –
Environmental Science and Policy

Concentrations:
Journalism and Media Studies, Florida Studies

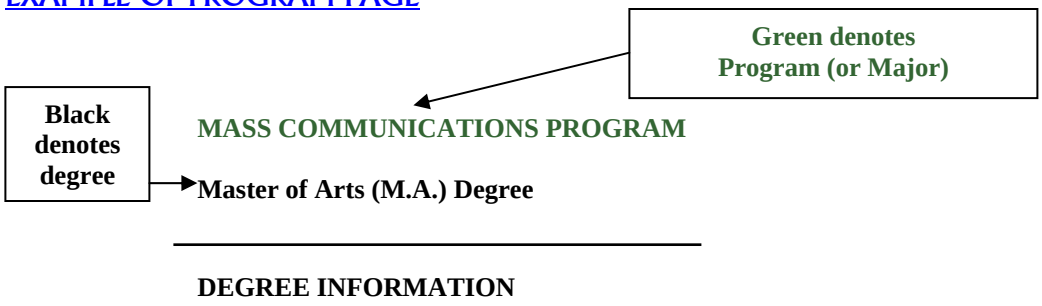
Graduate Certificates Offered: n/a

College Requirements: Contact Graduate Program for Program Requirements.

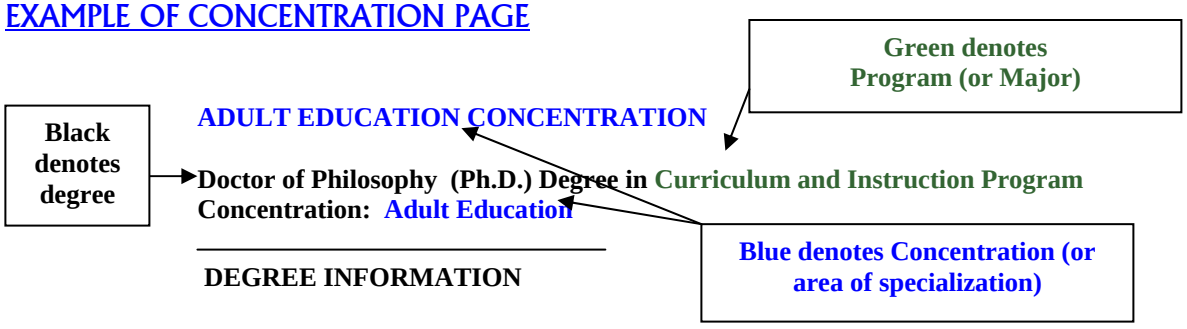
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

LIBERAL ARTS PROGRAM AT USF ST. PETERSBURG

Master of Liberal Arts (M.L.A.) Degree in the Liberal Arts Program With a Concentration in Florida Studies (FST)

DEGREE INFORMATION

This is a concentration offered under the MLA degree in the Liberal Arts Program and offered only at USF St. Petersburg.

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 24.0101
Dept Code: HUM
Program (Major/College): MLA AP
Concentration Code: FST

Also offered as:
Concentrations in:
Africana Studies (Offered in Tampa)
Humanities (Offered in Tampa)
Liberal Studies (Offered in Tampa)
Social and Political Thought (Offered in Tampa)

CONTACT INFORMATION

College: Arts and Sciences at St. Petersburg

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Florida Studies concentration of the Master of Liberal Arts Program allows students to sample a broad array of interdisciplinary classes. Florida-based classes may be taken in the fields of History, English, Marine Science, Geology, Geography, Political Science, Journalism and Media Studies, Fine Arts and Anthropology.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Upper division undergraduate GPA of 3.0 and a GRE score required. Please submit a writing sample (an undergraduate term paper, book review, or essay) or evidence of artistic work and two letters of recommendation.

DEGREE PROGRAM REQUIREMENTS

Florida Studies Concentration (USF St. Petersburg)
A 3 credit-hour class, Introduction to Florida Studies (AMS 6934) and a 4 credit seminar on the History of Modern Florida (HIS 6939) are the program's only required courses. All other classes must be approved; each semester the program will circulate a list of approved courses.

Each student must pass a comprehensive oral examination and a written examination covering three fields or concentrations.

All students in the Florida Studies Program will complete a thesis, generally 75 to 150 pages in length. Candidates will select topics with the approval of a thesis advisor. The thesis committee consists of the thesis advisor and two faculty members. An oral defense of the thesis completes the process (*Editor's Note: the thesis process is not completed until the thesis has been accepted and approved by the Graduate School. For more information refer to the University Degree Requirements section or go to www.grad.usf.edu).* The defense is open to all faculty and graduate students.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

MASS COMMUNICATIONS PROGRAM AT USF ST. PETERSBURG

Master of Arts (M.A.) Degree in the Mass Communications Program With a Concentration in Journalism Studies (JOS)

DEGREE INFORMATION

This is a concentration in Journalism Studies offered under the M.A degree in the Mass Communications Program at USF St. Petersburg..

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 09.0102
Dept Code: MCM
Program (Major/College): COM AP
Concentration Code: JOS

Also offered as:
Certificate in Converged Media
Media Studies (at USF Tampa)
Multimedia Journalism (at USF Tampa)
Public Relations Studies (at USF Tampa)

CONTACT INFORMATION

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The M.A. degree program in Mass Communications: Journalism is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications.

Journalism emphasizes advanced practice and study in writing, reporting, ethics, and theoretical issues.

Accreditation:
Journalism is accredited by the Commission on Colleges of the Southern Association of College and Schools and the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

Major Research Areas:
Media, ethics, science communication, news and visual communications.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. A baccalaureate degree from a regionally accredited institution, with a grade point average (GPA) of 3.00 or better in the last two years (60 hours) of undergraduate work.
2. A Graduate Record Examination (GRE) score is required
3. A detailed statement of intent for seeking an M.A. in journalism, including discussion of: your background, especially the academic and professional aspects; the specific scholarly, policy, or professional issues in which you have an interest; how your background has prepared you to excel in the journalism M.A. program; and how you intend to apply your education when you complete our M.A. program.
4. Three letters of recommendation from qualified people who are familiar with the nature of the work required of graduate students in the social sciences, and who can address your ability to excel in this type of work.
5. Three examples of professional or academic writing.

DEGREE PROGRAM REQUIREMENTS

Journalism Studies –
Requires 36 hours of course work, including either a thesis for 6 credit hours or a professional project for 3 credit hours. As an option, students may designate an area of specialization and take up to 12 hours through other departments of the university. Students are also eligible to participate for academic credit in certain seminars offered by the Poynter Institute, adjacent to the campus of USF St. Petersburg

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm and www.stpt.usf.edu/journalism/

ENVIRONMENTAL SCIENCE AND POLICY PROGRAM AT USF ST. PETERSBURG

Master of Science (M.S.) Degree in Environmental Science and Policy

DEGREE INFORMATION

The M.A. degree program in Mass Communications: Journalism is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications.

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 03.0103
Dept Code: ESP
Program (Major/College): ESP AP

Also offered as:
Certificate in Converged Media
Media Studies (at USF Tampa)
Multimedia Journalism (at USF Tampa)
Public Relations Studies (at USF Tampa)

CONTACT INFORMATION

College: Arts and Sciences at St. Petersburg
Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The M.S. in Environmental Science and Policy program in the College of Arts and Sciences at USF St. Petersburg offers an interdisciplinary and multidisciplinary program. The program provides advanced training, education and research opportunities to post-baccalaureate students interested in applied environmental science and/or in the interactions of society and the environment. Graduates of the program are trained to serve as environmental professionals in local, state, and federal environmental resource agencies; in the private sector, as environmental consultants; or are prepared to enter doctoral programs in environmental science and/or related fields.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Upper division undergraduate GPA of 3.00 and a GRE e required.

DEGREE PROGRAM REQUIREMENTS

Requires 30 hours of graduate coursework, 6 hours of thesis research, completion of the comprehensive examination, and thesis defense.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

Section 15

College of Business

University of South Florida
College of Business
4202 E. Fowler Ave BSN 3403 (loc BSN 103)
Tampa, FL 33620

Web address: http://www.coba.usf.edu/
Email: mba@coba.usf.edu
Phone: 813-974-3335
Fax: 813-974-4518

College Dean: Robert Forsythe
Associate Dean: Richard L. Meyer
Graduate Coordinator: Wendy E. Baker

Accreditation:
The Ph.D., M.B.A., M.S. in Management Information Systems, M.S. in Management: Leadership and Organizational Effectiveness M.S. in Finance, Master of Accountancy, and M.A. in Economics programs in the College of Business are accredited by the AACSB International – The Association to Advance Collegiate Schools of Business. The College also is a member of the Graduate Management Admission Council (GMAC).

Mission Statement:
The USF College of Business will provide a high-quality, diverse learning environment preparing students to contribute to and take leading positions in business and society. Our teaching, scholarship, and service will link theory and practice to benefit the University and the communities it serves.

Major Research Areas: Contact College for information.
Types of Degrees Offered:
Master of Accountancy (M.Acc.), Master of Arts (M.A.), Master of Business Administration (M.B.A.), Master of Science (M.S.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Accountancy - M.Acc.
Accountancy

Master of Arts - M.A.
Business Economics

Master of Business Administration - M.B.A.
Business Administration (full-time or part-time)
Executive M.B.A.
Executive M.B.A. for Physicians
Saturday M.B.A.
M.B.A. Program at Sarasota/Manatee
M.B.A. Program at St Petersburg (see St. Petersburg -- College of Business)

Master of Science - M.S.
Finance
Management
Management Information Systems

Doctor of Philosophy - Ph.D.
Business Administration

Concentrations:
Leadership and Organizational Effectiveness (M.S. in Management). Also see application areas in program descriptions

Graduate Certificates Offered:
see Graduate Certificate website
http://www.outreach.usf.edu/gradcerts/

COLLEGE REQUIREMENTS

Non-Degree Seeking Students
The College of Business will approve, on a space available basis, non-degree seeking student status for transient students (degree-seeking students at another AACSB accredited institution) or for students with valid reasons to register in this status and who meet all admission requirements. Contact the college for additional requirements.

Organizations and Centers:

The Center for Entrepreneurship is a multi-disciplinary, campus-wide center focusing on entrepreneurial education, training and research. The vision of the USF Center for Entrepreneurship is to create an internationally recognized Center of Excellence for educating and training entrepreneurial leaders using innovative, interdisciplinary approaches. The Center seeks to create unique learning opportunities through partnerships among students, faculty and community entrepreneurial leaders. These partnerships leverage the strengths of all participants to create a nationally recognized program which enables students, faculty and entrepreneurial leaders to develop the critical skills necessary to (1) identify new opportunities (2) accelerate the commercialization of new technologies and (3) create and grow successful new business ventures. The Center offers through the USF Graduate School both a Graduate Certificate in Entrepreneurship and a Master of Science in Applied Technologies. Information on the Center and its programs and activities may be found at www.ce.usf.edu .

The Center for Economic Policy Analysis at the University of South Florida is a non-profit, ideologically neutral collection of scholars devoted to the analysis of social policy relevant to the Tampa Bay region, the State of Florida and the Nation. Our unifying theme is a fundamental belief that good decisions concerning social policy are grounded in a thorough understanding of economic principles.
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The Small Business Development Center offers entrepreneurial seminars, workshops and individual consultation to facilitate small business growth. A continued support system is provided for its clients to ensure sucessful implementation Students under faculty direction provide assistance in developing business, marketing, and financial plans for existing and high growth businesses.

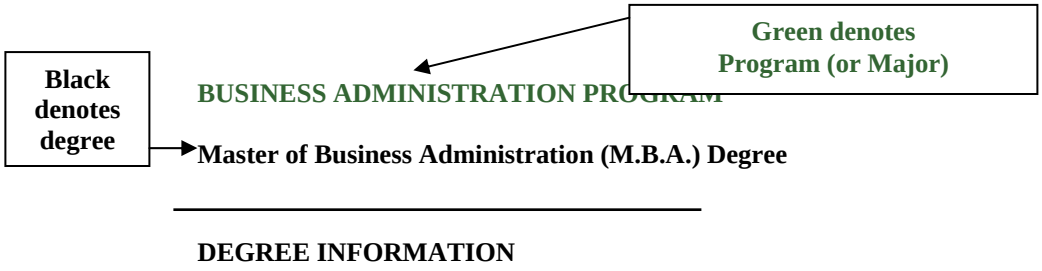
The Center for Economic Development Research (CEDR), conducts applied economic research on regional, statewide, and national economic development issues. The Center's educational activities cultivate excellence in economic development practice and are bolstered by the annual, week-long Basic Economic Development Course that is accredited by the International Economic Development Council. Through its Internet Data Center, the Center provides a service to all those interested in obtaining national and regional economic/demographic data sets and research reports.

The Institute for Information Systems Management (IISM) was established as a partnership between business, government and higher education. Its mission is to establish a major center for research, education and professional networking that will help firms operate effectively in the information age. From time to time the Institute presents seminars, workshops, and round-table discussions on important issues in Information Systems Management and conducts applied research on topics of interest to its corporate affiliates. IISM resides in the College of Business and can be reached during normal business hours at (813) 974-5524.

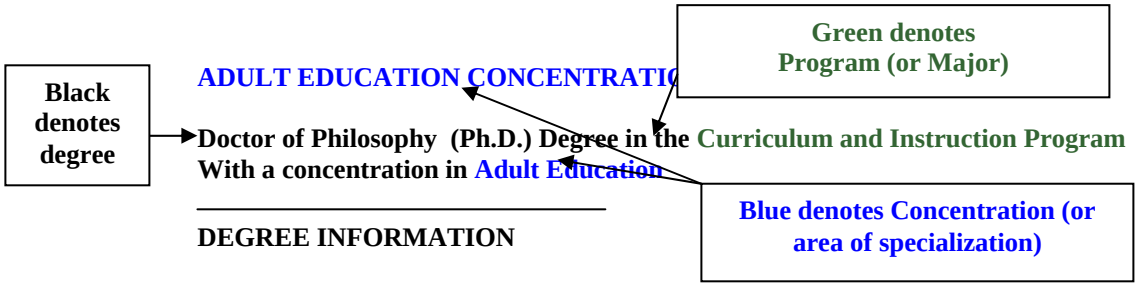
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

ACCOUNTANCY PROGRAM

Master of Accountancy (M.Acc.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	June 1
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 52.0301
Dept Code: ACC
Program (Major/College): MAC BA

Also offered as:
Track under Business Administration (Ph.D.)

CONTACT INFORMATION

College: Business
Department: School of Accountancy

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The objective of the Master of Accountancy (M.Acc.) Program is to provide candidates with greater breadth and depth of knowledge in accountancy than is possible in the baccalaureate program. The program is designed to meet the increasing needs of business, government, and public accounting. Students entering The M.Acc. Program must already have the equivalent of an undergraduate degree in accounting from an AACSB accredited school. The program may also be structured to satisfy the requirements to sit for the CPA Examination in Florida.

Accreditation:

Accredited by both the Commission on Colleges of the Southern Association of College and Schools (SACS) and AACSB International (The Association to Advance Collegiate Schools of Business).

Major Research Areas:

Contact department.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

At least a 3.0 upper-level accounting GPA (minimum of 21 hours at a U.S. AACSB- accredited program within the past 5 years, a 3.00 overall upper-level GPA, and a 500 or higher GMAT score. International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.

DEGREE PROGRAM REQUIREMENTS

For the student who has the equivalent of an undergraduate major in accounting at USF (including 21-24 hours of upper-level accounting coursework taken within the last 5 years), the program consists of 30 hours. Most (21 hours) of the program is devoted to the study of accounting. The remaining nine (9) hours consist of study in other business areas including economics, entrepreneurship, finance, and information systems/decision sciences. These nine (9) hours are elected by the student in consultation with the M.Acc. Advisor. At least 70% of the coursework must be at the 6000 level.

The M.Acc. curriculum has a set of four required common core accounting courses. The student may emphasize a particular specialty through a choice of accounting electives. The sequencing of courses will be determined in consultation with the M.Acc. Advisor.

Required Accounting Courses

ACG 6835	Accounting Skills, Values & Information Technology	3
ACG 6875	Financial Reporting and Professional Issues	3
ACG 6405	Advanced Accounting Information Systems	3
ACG 6932	Integrative Accounting Seminar	3

Accounting Electives (3 courses)

ACG 6476	Contemporary Issues in Accounting Information Systems	3
ACG 6636	Contemporary Issues in Auditing	3
TAX 6065	Contemporary Issues in Taxation	3

ACG 6346	Contemporary Issues in Managerial Accounting	3
ACG 6936	Selected Topics in Accounting	3
TAX 6445	Estate Planning	3
ACG 5205	Advanced Financial Accounting	3
ACG 5675	Internal and Operational Auditing	3
ACG 5501	Governmental / Not-for-Profit Accounting	3
TAX 5015	Federal Taxation for Business Entities	3

Non-accounting Electives (3 courses; at least 2 courses in the same discipline)
Electives must be approved in advance by MAcc Advisor **9**

Total Semester Hours (At least 21 hours must be in 6000-level courses) **30**

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

BUSINESS ADMINISTRATION PROGRAM

Master of Business Administration (M.B.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	June 1
Spring:	October 15
Summer:	No Admit

Minimum Total Hours: 37-48
Program Level: Masters
CIP Code: 52.0101
Dept Code: DEA
Program (Major/College): BUS BA

Application Tracks/Areas of Study:
Building Sustainable Enterprise
Entrepreneurship
Finance
Advanced Financial Management
Advanced International Business
Government and Business
Health Care in a Changing Business Environment
International Business
Management
Advanced Management
Management Information Systems
Advanced Management Information Systems
Marketing Strategy
Advanced Marketing
Supply Chain Management

Also offered as:
Executive MBA
Executive MBA for Physicians
Saturday MBA
MBA at Sarasota/Manatee
MBA at St. Petersburg

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Master of Business Administration (M.B.A.) is a professional degree designed to prepare graduates for managerial roles in business and not-for-profit organizations. Graduates will develop the necessary skills and problem-solving techniques that will permit them to make an early contribution to management and eventually to move into broad, general management responsibilities at the executive level. The program is designed to meet the needs of qualified men and women with undergraduate degrees from accredited universities. Work experience is a meaningful background and will permit the student to better understand the subject matter to be mastered.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); AACSB International – The Association to Advance Collegiate Schools of Business

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Upper-level GPA 3.0 or higher and minimum of 500 on GMAT. International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test. Two years of significant full-time post-baccalaureate work experience prior to enrollment.

The admissions committee carefully considers each completed application, with particular attention to work history, undergraduate performance, recommendations and test scores. Personal characteristics that add to the diversity of the class may also be considered.

DEGREE PROGRAM REQUIREMENTS

The M.B.A. degree is a 37-48 hour program. All M.B.A. candidates must complete all degree requirements within five years of beginning the program. The full-time student without course waivers generally will need 6 semesters to complete the program. Part-time students can complete all work within a reasonable time--approximately three years without course waivers. Part-time students are encouraged to take two courses per semester and must complete 12 hours per calendar year to remain on active status as a degree-seeking student. Students who have completed undergraduate or graduate courses in business and economics from an AACSB accredited school may receive course waivers and reduce their course loads from the maximum requirement. Courses are scheduled to accommodate both full-time and part-time students. All courses are at the graduate level. Students entering the program are expected to have sufficient competency in mathematics (College Algebra), communication skills (written and verbal), basic computer skills, high-speed internet acccess, and two years of relevant work experience.. The curriculum consists of:

The Common Body of Knowledge

Common Body of Knowledge: (CBK) courses, also known as the "TOOL" Area courses, are designed to provide basic background in the several functional areas in order to prepare for more advanced studies. The courses assume little or no prior knowledge in the field. Students having undergraduate degrees in Business Administration may be eligible for waivers, subject to standards set by the faculty. The conditions for waivers are explained more fully below. Students who waive the tool courses are required to take a Business Skills Review course (non-credit) in the first semester of enrollment.

Application Areas (tracks):

The application areas encourage the development of market driven competencies and provide students with distinctive sets of knowledge and skills. Each grouping of courses allows students to position themselves in the marketplace by choosing applications that match their career goals. Students will select 2-3 areas of competency, each with 9 credit hours (advanced tracks are 6 credit hours).. Students who do not waive the tool courses are required to take only two specialization tracks (18 hours). Students who waive the tool courses are required to take 3 specialization tracks (27 credit hours).

Competency Certification:

Students will receive a certificate of achievement for the successful completion of each application sequence. Application area courses also include the opportunity to sharpen skills in writing, presentation, teamwork, technology applications, global applications, and communication.

Integrated Business Applications:

Integrated Business Applications is a six credit, two consecutive semester course sequence which emphasizes the integration and utilization of techniques and methods taught in the Tool and Application areas. The sequence involves working in both group and individual projects, with "live" as well as published cases. It utilizes a variety of computer applications, and includes the development of detailed business plans

M.B.A. Course Structure

Common Body of Knowledge, "Tool" courses 20 credits

ACG 6025	Financial Accounting for Managers	2
ACG 6075	Management Accounting & Control	2
MAN 6055	Human Behavior and Organization	2
ECP 6702	Managerial Economics	2
QMB 6305	Managerial Decision Analysis	2
ECO 6204	Global Econ. Environment of Bus.	2
MAR 6815	Marketing Management	2
FIN 6406	Financial Management	2
ISM 6021	Management Information Systems	2
QMB 6603	Operations Management & Quality Enhancement	2

Application Areas (Required Electives)	18*- 27 credits
Application Track #1	9
Application Track #2	9
Application Track #3	9

Required Courses	10 credits
GEB 6445 Social, Ethical, Legal Systems	2
MAN 6XXX Foundations of Leadership	2
GEB 6895 Integrated Business Applications I	3
GEB 6896 Integrated Business Applications II	3

Total Semester Credits Required 37-48

Note: Some Application Tracks may not be offered each year. Additional applications tracks may be developed based on students interests and needs.

Constraints

1. The maximum credits required is forty-eight (48). The minimum for a student with a business degree

from an AACSB accredited institution within the last seven years is thirty- seven (37).

2. Students with an undergraduate degree in Business who are eligible to waive the tool area courses must complete an advanced course in four of the seven areas waived. Students do not need an advanced course in their area of undergraduate major. Students who waive the tool courses are required to to take a Business Skills Review course (non-credit) in the first semester of enrollment.

3. Students who are required to take the tool courses are required to take only two specialization tracks (18 hours). Students who waive the tool courses are required to take 3 specialization tracks (27 credit hours).

Note: Tool/core courses may not be counted as electives. Thesis - Students may elect a 6 hour thesis in any of the areas of concentration of the college, subject to departmental approval.

Non-Tampa Campus Offerings
The full-time and part-time MBA programs are offered on the Tampa campus and the USF Downtown Center. The MBA at Sarasota is administered separately. For application procedures and additional information see MBA at Sarasota section.

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm

BUSINESS ADMINISTRATION PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 2
Fall admission only

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 52.0201
Dept Code: DEA
Program (Major/College): BUD BA

Application Tracks/Areas of Study:
Accounting
Economics
Finance
Information Systems
Management (inactive)
Marketing

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ph.D. program offered by the College of Business provides its graduates with preparation for careers as college and university professors and as research and staff personnel in industry and government. The doctoral program provides for intellectual growth as students work closely with faculty in seminars, research projects, and other assignments which develop their teaching and research skills. The curriculum offers breadth of understanding of the integral components of business administration as well as depth of field specialization sufficient to permit the student to make a meaningful contribution to their discipline. The program is sufficiently flexible to allow each student to build upon his or her strengths and to accommodate students with various levels of preparation in a wide variety of fields

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; AACSB International – The Association to Advance Collegiate Schools of Business.

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Competitive based on GPA, GMAT or GRE, personal statement, recommendations, interview. International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.

DEGREE PROGRAM REQUIREMENTS

A minimum of 90 semester hours beyond the bachelor's degree is required. This includes 21 hours of dissertation. A minimum of 45 hours of coursework must be completed at the University of South Florida.

Foundation Courses
These courses are designed to develop an appreciation of the institution of business and to help students see how their areas of specialization fit into this general picture. With the approval of the student's program committee, a student may satisfy these requirements in any of the following ways:

A. By completing an undergraduate degree in business at an AACSB accredited institution, with an average of "B" or better in the last 60 hours, no more than 5 years prior to admission to the Ph.D. program.

B. By completing an M.B.A. degree at an AACSB accredited institution, no more than 5 years prior to admission to the Ph.D. program

C. By completing one approved course with a grade of "B" or better in each of the functional areas: Accounting, Finance, Information Systems, Management, and Marketing. (Economics requirements are described under core requirements.) All graduate-level courses at the 6000 level or above, with the exception of specific "tool" courses (e.g. statistics), will count toward this requirement.

D. By successfully petitioning the doctoral Program Committee to accept previous academic work (e.g., specialized Masters programs in business, degrees granted more than 5 years ago, etc.) in fulfillment of all or part of this requirement. Such a petition must be initiated during the first semester of the program.

Core Courses
The core courses are designed to provide a strong background in Economics and to develop the student's quantitative and statistical research skills. These courses are required of all students in the program. The College will waive a course only if the student has passed the same or equivalent course with a grade of "B" or better within the preceding five years.

The Economics requirement can be met by completing two graduate level courses, one in microeconomics and one in macroeconomics, with a grade of "B" or better. The courses which satisfy this requirement are:

ECO 6114 Managerial Economics	2
ECO 6204 Global Economic Env. of Business	2
ECO 6115 Microeconomics I*	3
ECO 6206 Aggregate Economics*	3
ECP 6408 Economics of Organization*	3

At least one course must be taken from among those listed above with an asterisk (*).

The quantitative and statistical coursework is to be determined by the student's program committee in consultation with the student. A three course series is required. An appropriate sequence should be chosen from the following:

ECO 6424 Econometrics I
ECO 6425 Econometrics II
ECO 7426 Econometrics III
ECO 7427 Econometrics IV
GEB 6375 Applied Linear Statistical Models
QMB 7565 Introduction to Research Methods
QMB 7566 Applied Multivariate Statistical Methods

Any substitution of appropriate mathematics, statistical and quantitative coursework must be approved by the Doctoral Program Committee, preferably at the time of acceptance, or definitely before the student takes a substitute course. In addition, students are required to take an additional research elective approved by their advisory committee. Should a student earn a grade of "C" or lower in the core courses, the case will be brought before the Doctoral Program Committee for review. After reviewing the case, the Committee will take one of the following steps:

a. Require the student to pass an examination that covers the material relevant to the subject. A student who fails the exam on the first attempt may retake it within one year. A student who fails the exam on the second attempt will be subject to dismissal.

b. Require the student to retake the course. If the student retakes the course and fails to receive a grade of “B” or better, the student is subject to dismissal.

Major Field
All students will take at least five (5) courses at the 6000 or 7000 level in an area designated as the student's major. Students are encouraged to identify courses in the major field that will provide experience in applying current research techniques to problems in that field. To accomplish this, the student may propose a combination of formal classroom courses and independent directed-research courses. This combination may include a year-long research seminar in which the groundwork is laid for the student's dissertation. The specific agenda of courses will be determined by the student's program committee.

The following fields are offered as majors: Accounting, Economics, Finance, Information Systems, Management (inactive) and Marketing. Courses taken as part of the Foundation or Core sections may not be counted as part of the hours required for a major field.

Support Field
The support area will consist of a minimum of three courses (9 hours) from one or more of the fields listed under the major field, or elsewhere in the university.. The support field and the major field cannot be taken in the same department. Courses within the support field can be selected to complement the major field and in special cases may include courses outside the College of Business. The nature and number of the support area courses will be determined by the Student's Program Committee in consultation with the Ph.D. coordinator of the support field department. Courses taken as part of the Foundation or Core courses may not be counted as part of the 9 hours required for support fields.

Comprehensive Qualifying Examination
Upon completion of all coursework, students must pass a comprehensive written examination in the major area. The student's performance on this exam should reflect familiarity with the literature, as well as with current issues and problems related to these fields. A student who fails the field exam may retake it within one year. A second failure disqualifies the student from continuing the Ph.D. program. If the degree is not conferred within 5 calendar years of the comprehensive qualifying examination, a second and different examination must be taken. Students passing the qualifying examination are

eligible for admission to candidacy for the Ph.D. program.

The decision to administer a separate comprehensive exam for a support area will be made by the department in which the support area is taken. In the event that an interdisciplinary support area is selected, any department represented by six (6) or more semester hours may require a qualifying examination. In the event that no single department represents six semester hours or more, the student's program committee will solicit input from the faculty teaching the courses in the support area. If a majority of those polled take the position that a separate comprehensive examination in the support area is not appropriate, the exam will not be administered. If a separate comprehensive examination is not administered in a support area, material from the support area will be integrated into the comprehensive exam in the major area.

Normally, qualifying examinations will be administered in October and March of each year. A student who anticipates sitting for a field exam should notify the department chair and the Associate Dean in writing during the first week of the semester in which they plan to take the exam. The exams will be a minimum of 8 hours.

Dissertation- 21 hours of dissertation are required for the degree.

Residency Requirement - Ph.D. students in the College are required to complete a minimum of 15 hours per calendar year. Failure to meet this requirement will result in the student being placed on conditional status.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

BUSINESS ADMINISTRATION (SATURDAY MBA) PROGRAM

Master of Business Administration (M.B.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Closed for new admissions

Minimum Total Hours: 48
Program Level: Masters
CIP Code: 52.0201
Dept Code: DEA
Program (Major/College): MBS BA

Also offered as: See listing under MBA Program

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

BUSINESS ADMINISTRATION PROGRAM AT SARASOTA-MANATEE

Master of Business Administration (M.B.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Cohort program. Contact program for starting dates and deadlines.

Minimum Total Hours: 48
Program Level: Masters
CIP Code: 52.0101
Dept Code: SRB
Program (Major/College): BAS BA

Also offered as: See MBA Program

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The program consists of 48 credits of course work and is designed to be completed in approximately 2 ½ years. The program offers Sarasota-Manatee students geographical convenience, quality and affordability.The program is a lock-step program with a planned maximum number of students per cohort group. Because of the structured nature of the program, students must take all courses as, and when, they are offered. Program staff will register students each semester.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); AACSB International – The Association to Advance Collegiate Schools of Business.

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Must have 3.0 upper-level GPA; 500 or higher GMAT. International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.. Two years of significant full-time post-baccalaureate work experience prior to enrollment.

DEGREE PROGRAM REQUIREMENTS

The program is 48 credits. The curriculum includes:

Managerial Tool Courses (20 credits): These are the basic skills of the MBA program. The techniques and procedures learned in these courses provide the foundation for the specific applications to follow.

Required Courses (10 hours):

1) GEB 6445 Social Ethical Legal (2 credits)
2) MAN 6XXX Leadership Concepts (2 credits)
3) Integrated Business Applications (6 credits): This is a 2-course sequence which ties together the various individual techniques and methods taught in the Tools and Applications areas. It is a project-based course which involves both individual and group effort.

Application Area Courses (18 credits); These courses provide the student with specific areas of specialization and competency. The program offers two major application areas.

ECP 6702	Managerial Economics	2
MAN 6055	Human Behavior and Organization	2
ACG 6025	Financial Accounting for Managers	2
ECO 6204	Global Econ. Environment of Business	2
ACG 6075	Management Accounting & Control	2
MAR 6815	Marketing Management	2
QMB 6305	Managerial Decision Analysis	2
ISM 6021	Management Information Systems	2
QMB 6603	Operations Management & Quality Enhancement	2
GEB 6445	Social, Ethical, Legal Systems	2

FIN 6406	Financial Management	2
MAN 6XXX	Leadership Concepts	2
Track #1, course #1		3
Track #1, course #2		3
Track #1 course #3		3
Track #2, course #1		3
Track #2, course #2		3
Track #2, course #3		3
GEB 6895	Integrated Business Applications I	3
GEB 6896	Integrated Business Applications I	3

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

BUSINESS ECONOMICS PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	June 1
Spring:	October 15
Summer:	No admission

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 52.0601
Dept Code: ECN
Program (Major/College): ECN BA

Also offered as:
Specialization/concentration under Master of Business Administration (Government & Business)
and under Doctor of Philosophy (Ph.D.) – Business Administration

CONTACT INFORMATION

College: Business
Department: Economics

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. in Economics prepares students for careers as professional economists in business and government. It is also excellent preparation for continued graduate study in economics.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); AACSB International – The Association to Advance Collegiate Schools of Business.

Major Research Areas:
Labor economics, health economics, public economics, urban and regional economics, international trade, economic development, history of economic thought, economics of education, economics of crime, information economics, macroeconomics, and industrial organization.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

- Must have a 3.00 or higher upper-level GPA.
- Must have a 500 or higher GMAT; or GRE score of 430 or higher verbal portion and 570 or higher quantitative portion.
- International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.
- Must have at least a 3.0 GPA in prerequisite courses in intermediate microeconomics, intermediate macroeconomics, statistics, and calculus.

DEGREE PROGRAM REQUIREMENTS

All students are required to take courses in advanced economic theory, policy analysis, and econometrics. Undergraduate economics majors at USF may complete the program in one year beyond the B.A. in the 5-Year B.A./M.A. Program. Students preparing for doctoral studies select from these and additional courses in economic theory, mathematics, and quantitative methods. Where appropriate students may select courses in other departments in the University.

Students must satisfy all University requirements for the M.A. degree. Departmental requirements include 30 hours of graduate credit selected with the approval of the department's graduate advisor. At least 24 hours must be in Economics not including Independent Study (ECO 6906) and Directed Research (ECO 6917). To graduate, a student must have at least an overall 3.0 GPA and at least a 3.0 GPA for all economics courses, and pass an oral examination.

Required Courses		
ECO 6115	Microeconomics I	3
ECO 6120	Economic Policy Analysis	3
ECO 6206	Aggregate Economics	3
ECO 6405	Mathematical Economics	3
ECO 6424	Econometrics I	3
ECO 6425	Econometrics II	3
Electives		6

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

EXECUTIVE M.B.A. PROGRAM

Master of Business Administration (M.B.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: May 31

Minimum Total Hours: 48
Program Level: Masters
CIP Code: 52.0201
Dept Code: DEA
Program (Major/College): MBA BA
Application tracks: Management
Also offered as:
Business Administration (M.B.A.)
Executive MBA for Physicians*
Saturday MBA*
MBA at Sarasota/Manatee
MBA at St. Petersburg
Inactive

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The weekend Executive M.B.A. is a lock-step, 20-month, AACSB accredited program designed to meet the unique needs of both mid-career managers who have demonstrated the potential to reach senior management positions, and senior managers who desire to significantly increase their personal and organizational effectiveness. The program provides an opportunity to broaden and enrich management skills, to extend knowledge of modern business techniques, and to further develop understanding of the social, political, and economic forces that shape the business environment and influence decision making. Classes are scheduled all day on two Saturdays and one Friday a month for four semesters. The weekend format allows participants to continue carrying their careers while they master a range of managerial skills.

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools (SACS), AACSB International –The Association to Advance Collegiate Schools of Business.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. The weekend Executive MBA Program requires the submission of a preliminary application and personal interview prior to official graduate school application. Please see the program website for application forms or contact the program office.

Program Admission Requirements

- Must have a 3.0 upper-level GPA;
- GMAT (may be waived)
- 5 years of management/professional experience;
- interview;
- statement of corporate approval.
- international applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.

DEGREE PROGRAM REQUIREMENTS

Executive MBA Program Curriculum *

ACG 6025	Financial Accounting for Managers
MAN 6055	Human Behavior and Organization
GEB 6445	Social, Ethical, Legal Systems
QMB 6305	Managerial Decision Analysis
ECP 6702	Managerial Economics
ACG 6075	Managerial Accounting & Control
ECO 6204	Global Economic Environment of Business
FIN 6406	Financial Management
GEB 6930	International Business
MAR 6815	Marketing Management
MAN 6911	Direct Research
FIN 6934	Financial Management II
MAR 6936	Supply Chain Management

MAN 6448	Negotiating Agreement and Resolving Conflict
QMB 6603	Operations Management
ISM 6021	Management Information Systems
FIN 6515	Investments
MAN 6930	Business Problems Analysis
MAN 6305	Human Resource Management
MAN 6930	Executive Leadership
MAN 6930	Leadership in Organizations

*Specific courses subject to change

During the interim summer session, each participant, in consultation with a faculty advisor, undertakes an applied research project that focuses on a work-related problem or area of interest. In addition, Executive M.B.A. students have the opportunity to participate in the annual two-week Overseas Study Module, which involves on-site study of international business practices. A different country/region is selected each year. Past modules have included visits to such cities as Moscow, London, Zurich, Geneva, Brussels, Tokyo, Beijing, Mexico City, Buenos Aires, Rio de Janeiro, Hong Kong, Milan, and Paris.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

EXECUTIVE M.B.A. PROGRAM FOR PHYSICIANS

Master of Business Administration (M.B.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 48
Program Level: Masters
CIP Code: 52.0201
Dept Code: DEA
Program (Major/College): MDX BA

Also offered as: Business Administration (MBA)
Executive MBA
Saturday MBA Inactive

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program
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FINANCE PROGRAM

Master of Science (M.S.) Degree in the Finance Program

DEGREE INFORMATION

Program Admission Deadlines:
Fall Deadline: June 1
Spring Deadline: October 15
Summer Deadline: n/a

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 52.0801
Dept Code: FIN
Program (Major/College): FIN BA

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

M.S. in Finance
The M.S. in Finance offers a curriculum that concentrates on both finance and economics concepts. Students who complete the M.S. in Finance will be better prepared to succeed in careers in the financial world, especially in positions that require specialized knowledge about various finance topics.

Accreditation
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS). AACSB International -The Association to Advance Collegiate Schools of Business.

Major Research Areas
Finance

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
GMAT score of 550 or higher
Undergraduate upper-level GPA of 3.00 or higher
International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.

DEGREE PROGRAM REQUIREMENTS

Course Requirements:
Prerequisites – a student who does not have an undergraduate degree in business will have to complete the following courses before taking courses in the MSF program (Semester hours are in parentheses):

Principles of Finance (3)
Microeconomics (3)
Macroeconomics (3)
Financial Accounting (3)
Managerial Accounting (3)
Statistics I (3)
Statistics II (3)

Students must successfully (a grade of A or B) complete equivalent courses in each of these areas prior to taking MSF courses. These courses should have been completed in an AACSB accredited program within five years of entering the MSF program.

Core Economics (6 hours)
ECO 6115 Microeconomics (3)
ECO 6205 Macroeconomics (3) or ECO 6206 Aggregate Economics (3)

Core Statistics (6 hours)
ECO 6936 Mathematical Economics (3)
ECO 6424 Econometrics I (3)

Core Finance (12 horus)
FIN 6416 Advanced Financial Management (3)
FIN 6515 Investments (3)
FIN 6804 Theory of Finance (3)
FIN 6445 Financial Policy (3) – must be taken at the end of the program after the other core courses are completed.

Core finance courses may be waived for students who graduated with finance majors from AACSB accredited programs within five years of entering the MSF program. Only courses with the same content as the core finance courses can be used to satisfy the MSF course requirements, and students must have earned grades of A or B to have such courses waived. Advanced finance courses must be substituted for waived courses.

Finance Electives (6 hours)

Students can select any two of the following courses:

FIN 6246 Advanced Money and Capital Markets (3)
FIN 6326 Bank Management (3)
FIN 6418 Working Capital Management (3)
FIN 6605 International Fiancne (3)
FIN 6934 Financial Statement Analysis (3)
FIN 6934 Financial Options and Futures (3)
FIN 6934 Selected Topics in Finance (3)

Additional Information Regarding Curriculum

Leadership, teamwork, communication skills and organizational change are emphasized. Much of the curriculum is delivered through case studies, class discussion, exercises, group projects, video taped role-playing, simulations, and prominent guest speakers from the local business and non-profit community. Emphasis is placed on student participation and teamwork. All courses include writing, presentation, and critical thinking skills.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MANAGEMENT PROGRAM

Master of Science (M.S.) Degree in the Management Program
With a concentration in Leadership and Organizational Effectiveness

DEGREE INFORMATION

Program Admission Deadlines:
Fall Deadline: June 1
Fall admission only

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 52.0101
Dept Code: MAN
Program (Major/College): MAN BA
Concentration Code: LOE

Also offered as: A specialization/concentration under Master of Business Administration - two application areas (Management and Advanced Management)

CONTACT INFORMATION

College: Business

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

M.S. in Management: Leadership and Organizational Effectiveness (M.S.M.)
For updated details, please consult our website at www.coba.usf.edu. This program develops the skill to lead 21st century organizations. It is targeted for experienced, successful working managers - people who are already good at their jobs and who can be promoted to higher leadership and executive positions within or outside their present organizations. It is not intended for recent graduates seeking entry-level managerial positions.

The future requires a very different type of leader than the past. The hierarchical model of scientific management is no longer widely accepted. The leaders of the future must be able to empower others and to facilitate teamwork in diverse groups, to recognize and adapt to the constraints and opportunities of a global economy, and to accommodate the ethical and societal needs of the environment within which the organization functions.

Both the profit and not-for-profit communities have recognized these changes and have demanded that business schools provide a modified and improved manager for the future - a manager who succeeds by facilitating the performance of others. This manager must be successful in leadership and organizational effectiveness. Ethical and virtuous behavior as well as technical skills are promoted. These values lead to organizational behavior that is both effective and ethical. Intrapersonal, interpersonal, and organizational competencies are enhanced. The M.S.M. faculty members blend scholarly activity and applied skills. It is the goal of the faculty to prepare graduates for successful careers as leaders in the real world.

This is an extremely progressive, dynamic, well-focused program. It is designed to help you reach career goals. The M.S.M. is a 31 credit hour program offered in cohort format. The program is designed around the needs of working managers. Classes meet Monday and Tuesday evenings for twenty-one months. All students begin in the fall semester. The curriculum proceeds from encompassing perspective to skills development through understanding of interpersonal and organizational dynamics, to planned change and implementation. Sections are limited to thirty students. Course offerings and section availability are guaranteed to cohort members. All majors are eligible and welcome.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS). AACSB International -The Association to Advance Collegiate Schools of Business.

Major Research Areas:
Leadership, Organizational Effectiveness, Strategic Management

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

- Must have a 3.00 or higher upper-level GPA and a GMAT score of 500 or higher GMAT;
- lower totals may be offset by score of 28 or higher on V and 4.0 on analytical writing on the GMAT;
- leadership ability, work experience, and personal statement.
- International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.
- Competitive based on GMAT and personal statement.

DEGREE PROGRAM REQUIREMENTS

Students take the same twelve required courses. The cohort format is structured as follows:

GEB 6445	Social, Ethical, Legal Systems	2
MAN 6XXX	Leadership Concepts	2
MAN 6107	Leadership Perspective	2
MAN 6930	Assessing Performance in Sustainable Enterprise	2
MAN 6055	Human Behavior and Organizations	2
MAN 6448	Negotiating Agreement and Resolving Conflict	3
MAN 6149	Leadership and Teams	3
MAN 6930	Org. Design and Structure of Sustainable Enterprise	3
MAN 6305	Human Resources Management	3
MAN 6116	Managing Diversity	3
MAN 6256	Politics and Control in Organization	3
MAN 6930	Executive Leadership	3

Program Total: 31 credits

Additional Information Regarding Curriculum

Leadership, teamwork, communication skills and organizational change are emphasized. Much of the curriculum is delivered through case studies, class discussion, exercises, group projects, video taped role-playing, simulations, and prominent guest speakers from the local business and non-profit community. Emphasis is placed on student participation and teamwork. All courses include writing, presentation, and critical thinking skills.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MANAGEMENT INFORMATION SYSTEMS PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: June 1
Spring October 15

Minimum Total Hours: 32
Program Level: Masters
CIP Code: 52.1201
Dept Code: QMB
Program (Major/College): ISM BA

Also offered as:
Track under Business Administration (Ph.D.) and application area in Business Administration (M.B.A.)

CONTACT INFORMATION

College: Business
Department: Information Systems/Decision Sciences

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Management Information Systems (M.S./M.I.S.)
The Master of Science in Management Information Systems (M.S./M.I.S.) meets the needs of the marketplace for expertise in both information technology and management. Highly qualified individuals with motivation for leadership in information technology fields are encouraged to apply for admission to this program. We expect that graduates of the program will be in great demand by firms in the information services sector of the economy, software development organizations, management consultants, and M.I.S. departments in industry. An Industrial Advisory Board consisting of senior information systems executives and consultants works closely with the department to ensure that the program maintains high standards.

The MS/M.I.S. program is designed for individuals who are challenged by applications other than science or technology and who are willing to undertake a career that demands a broad rather than narrow range of skills. Students who already have considerable background either in academic computer science or in business coursework will make use of the built-in flexibility of the program, designing courses of study that will provide them with the best background for their careers. A faculty advisor will work closely with each student to design and monitor the most effective course sequence and optional thesis/practicum work.

Accreditation
Accredited by the Commission on Colleges of the Southern Association of College and Schools. AACSB International - The Association to Advance Collegiate Schools of Business.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Prefer students with a 3.00 upper-level GPA or higher and score of 500 or higher GMAT; work experience desired. International applicants from non English-speaking countries must also have a TOEFL score of 550 or higher on the written version, a minimum score of 213 on the computer-based test or a 79 on the internet-based test.

DEGREE PROGRAM REQUIREMENTS

The program requires 30-32 hours of coursework and may be taken either full-time or part-time. Full-time students with appropriate prerequisites may be able to complete the program in one full year (3 semesters) of study. Part-time students and full-time students who need prerequisites will typically need from 1 1/2 to 3 years to complete the degree.

During the first year of the program, a student will complete a formal Program of Study that will define a coherent sequence of courses to satisfy the student's objectives. A student may have the option to complete a master's thesis or a Practicum project, depending upon the availability and approval of a faculty sponsor. All students must successfully pass a comprehensive final examination (given in capstone course ISM 6155) for degree completion.

Prerequisites: Incoming students are expected to have the following as prerequisites:* One semester of calculus or equivalent mathematical background* Two semesters of a high-level programming language (e.g., C, C++, Java) or substantial programming experience* One semester of information systems analysis and design and one semester of database systems or equivalent* Educational background in business fundamentals must include courses in Accounting, Economics, and Statistics. Required prerequisite courses may be taken concurrently with courses in the M.S./M.I.S. program. Prerequisite courses do not count toward the 32 hours of course requirements in the M.S./M.I.S. program.

Technical Core (9 credits)

The following three courses provide a solid understanding of state-of-the-art research and practice in technical areas of Information Systems.

1. ISM 6124 (3 credits) - Advanced Systems Analysis and Design

Students learn to manage and perform activities throughout an information systems development life cycle, from the analysis of system requirements through system design to system implementation and operation. Advanced system development processes, methods, and tools are presented. This course is continually revised to include the latest theories and tools. A group project using advanced CASE tools is an integral portion of the course.

2. ISM 6218 (3 credits) - Advanced Database Administration

Advanced practice and research in database systems, to include entity-relationship modeling, relational databases, object-oriented databases, performance issues, and management of the database administration (DBA) function. State-of-the-art database systems will be used for individual and group projects.

3. ISM 6225 (3 credits) - Distributed Information Systems

The content of this course will be focused on telecommunications and networks. All forms of communications will be covered including voice, video, image, and data. Students will gain actual experience with network management systems, local area networks (LANs), and global networks, such as the Internet.

Capstone Course (3 credits)

ISM 6155 (3 credits) - Enterprise Information Systems Management

An advanced study of information system management to include system planning, project selection, project management, and organizational information management policies. This course is considered to be the capstone of the MS/MIS program and as such it must be taken during one of the last two semesters of the student's program.

Management Core

The management core consists of introductory course, MAN 6055 – Human Behavior in Organizations, plus two other management-related courses. These courses may come from the Management department or other campus departments with relevant managment-oriented courses (with the approval of MS MIS advisor).

Electives (12 credits)

Four elective courses may be selected from additional Information Systems courses or with prior approval by the academic advisor, other areas of specialization (e.g., Management, Decision Sciences, Computer Science, Logistics).

Thesis Option:

The master's thesis option requires six credits of ISM 6971, which count as six of the 12 elective credits. The thesis must make a well-defined contribution to the research and development in an area of Information Systems.

Practicum Option

The practicum option requires an investigation of a new information technology or application technique. The project typically occurs in the student's place of employment and is jointly supervised by a faculty member and a manager in the company. Based upon the magnitude of the project, either three or six hours of credit in ISM 6905 would be taken. The practicum would count for three or six hours of electives.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

Section 16

College of Business at USF St. Petersburg

College of Business, USF-St. Petersburg
140 Seventh Avenue South - COB 348
St. Petersburg, FL 33701

Web address: http://www.stpt.usf.edu/cob/index.htm
Email: mba@stpt.usf.edu
Phone: 727-873-4MBA
Fax: 727-873-4192

College Dean: Geralyn Franklin
Associate Deans: James Strachan
Scott Geiger
Graduate Director: Ryan Langan

Accreditation:
The M.B.A. in the College of Business is accredited by the American Assembly of Collegiate Schools of Business (AACSB)

Mission Statement:
The College of Business at the University of South Florida St. Petersburg offers a unique MBA program designed to prepare graduates for a leadership role in the 21st century. Our program emphasizes socially responsible management in a global business community.

We welcome students from diverse educational and business backgrounds. We offer intensive sessions of MBA Essentials for students without a recent undergraduate degree in business. Successful completion of theses sessions prepares students for the MBA program core courses and a selection of two specialized concentrations for greater expertise in key areas of business. Students with a background in accounting may earn credit toward requirements for the CPA exam while choosing MBA concentrations in forensic accounting and/or taxation.

Leadership skills, taught with a combination of traditional and interdisciplinary approaches along with opportunities for experiential learning and study abroad, prepare our graduates to meet the complex challenges of our changing business environment.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Business Administration (M.B.A.)

Name of Programs Offered:
Master of Business Administration (M.B.A.)

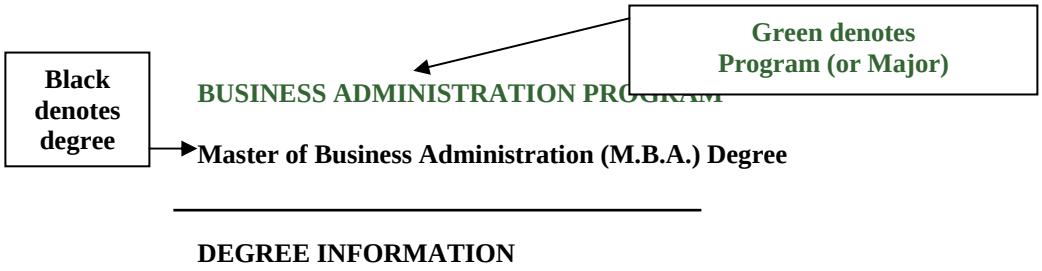
Concentrations:
Application Tracks: Finance, Forensic Accounting, International Business, Managing Knowledge Resources, Management, Marketing Strategy, Corporate Social Responsibility and Taxation.

Graduate Certificates Offered: n/a

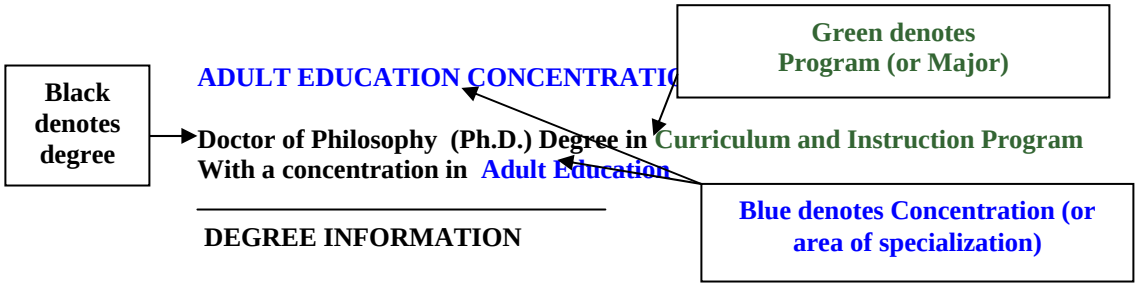
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

BUSINESS ADMINISTRATION PROGRAM AT USF ST. PETERSBURG

Master of Business Administration (M.B.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	August 1
Spring:	December 1
Summer:	no admit

Minimum Total Hours: 36
Program Level: Masters
Program Status: Active
CIP Code: 52.0101
Dept Code: DEA
Program (Major/College): BUS BP

Application Tracks:
Finance
Forensic Accounting
International Business
Managing Knowledge Resources
Management
Marketing Strategy
Corporate Social Responsibility
Taxation

Note: Some of these tracks may no longer be available. For a complete list of application tracks offered through USF refer to the USF MBA Program

Also offered through other campuses as:
Business Administration (M.B.A. at Tampa)
Executive MBA at Tampa
Executive MBA for Physicians (closed to new admission)
Saturday MBA (closted to new admissions)
M.B.A. at Sarasota

CONTACT INFORMATION

College: **Business**

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The intent of this program is to prepare students for a lifetime of opportunities, not just their next job. We understand that the right preparation involves more than just functional business knowledge. Effective leaders must also understand how to improve, redesign and integrate complex systems for the creations of customer value. With this in mind, our program is taught through a participative and experientially based curriculum. In addition to traditional business fundamentals, it also stresses:

Social Responsibility
Effective Corporate Reporting
Leadership and Teamwork
Cultural Diversity and Ethics
Technology and Innovation
Communication
International Perspective
Professional Development

Accreditation:
The M.B.A. is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Confirm requirements with the Program Director noted above.

Program Admission Requirements

- Four-year bachelor's degree from a regionally accredited institution with a GPA of 3.00 or higher from the last 60 hours of study.

- Graduate Management Admissions Test (GMAT) score of 500 or higher**.**
- International Students, whose undergraduate degree is not from a U.S. University, must also have a TOEFL score of 550 or higher on the written version, or a minimum score of 213 on the computerized test.
- Computer knowledge is required of all students prior to entering the program. Proficiency must include word processing capability, spreadsheet analysis, and the use of graphics.
- Working knowledge of college algebra.

DEGREE PROGRAM REQUIREMENTS

The program is 36 credits. The 18 hours of required courses consist of six 3-credit hour courses:

Dynamics of Individuals and Technology in Organizations

Regulatory and Reporting Environments of Business

The Living Enterprise

Organizational Strategies for the 21st Century

The Evolving Global Economic Enviroment

Creating Community Leaders and Partners

Application Track Courses
The Application Track areas encourage the development of market driven competencies and provide students with distinctive sets of knowledge and skills. The integration courses allow students to position themselvess in the marketplace by choosing concentrations that match their career goals. Students select concentration courses to develop detailed business plans for building their individual competencies and resumes.

Application Tracks include:
Corporate Social Responsibility
Finance
Forensic Accounting
International Business
Managing Knowledge Resources
Management
Marketing Strategy
Taxation

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

Section 17

College of Education

University of South Florida
College of Education
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

Web address: http://www.coedu.usf.edu/college/
Email: briscoe@tempest.coedu.usf.edu
Phone: 813-974-3406
Fax: 813-974-3391

College Dean: Colleen Kennedy
Associate Dean: Harold Keller
Graduate Coordinator: Diane Briscoe

Accreditation:
In addition to the University's regional accreditation by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS), the College is accredited by the National Council for the Accreditation of Teacher Education (NCATE) for the preparation of P-12 educators. Its initial certification programs are approved by the Florida Department of Education.

Vision/Mission Statement:
The USF College of Education envisions itself as a leader in regional, national and international education. Leadership in Education encompasses:

1) academic excellence,
2) research, scholarship and inquiry that renews the educational process,
3) collaboration that serves communities, institutions and individuals,
4) educator preparation that builds on academic excellence, scholarship, and clinical practice, and
5) collaboration that contributes to a just and productive society.

The College of Education fulfills this vision by: offering challenging learning opportunities in a supportive and diverse environment; creating and supporting research, scholarship, and inquiry in education; preparing the next generation of educators, scholars, and leaders for P-12 and the professoriate through exemplary undergraduate and graduate degree programs; serving the community through collaborative relationships; and, working with schools, agencies, and communities to offer educator preparation programs that prepare professionals who work competently, collaboratively, and ethically to improve educational outcomes for all.

Many concentrations are offered under the umbrella of "Curriculum and Instruction." Graduate Certificates are also offered in a number of areas. For information about the different degree programs refer to the individual programs. Students seeking initial certification must be admitted to one of the degree programs offered in the College. Individuals seeking additional information should contact the College of Education Graduate Studies Office at 813-974-3406, or http://www.coedu.usf.edu Please be advised that program and/or course requirements are subject to change per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria. Always check with the contact in your program of interest to determine whether or not there are programmatic variations.

Major Research Areas:
Contact Department or Program for information.

Types of Degrees Offered:
Master of Arts (M.A.), Master of Arts in Teaching (M.A.T.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), Doctor of Philosophy (Ph.D.)

Degree Programs and Concentrations:
Adult Education (M.A.,M.Ed., Ed.S., Ed.D., Ph.D.)
Business and Office Education (M.A.)
Career and Technical Education (M.A)
Career and Workforce Education (Ph.D.)
College Student Affairs (M.Ed., Ph.D.)
College Teaching (joint program with concentrations) (M.A.)
Counselor Education (M.A., Ed.S., Ph.D.)
Early Childhood Education (M.A., M.Ed., Ph.D.)
Educational Leadership (M.Ed., Ed.S., Ed.D.)
Educational Leadership, College Leadership (Ed.D.)
Elementary Education (M.A., Ed.S., Ed.D., Ph.D.)
Elementary Education/ESOL (M.A., M.A.T.)
English Education (M.A., M.Ed., Ph.D.)
English Education/ESOL (M.A., M.A.T.)
Exercise Science (M.A.)
Foreign Language Education French, Spanish or German-(M.A., M.Ed.)
Foreign Language Education/ ESOL (M.A., M.A.T.)
Higher Education (Ed.S., Ph.D.)
Human Resource Development (M.A.)
Instructional Technology (M.Ed., Ed.S., Ph.D.)
Interdisciplinary Education (Ed.S., Ph.D.)
Mathematics Education (M.A., M.Ed., Ed.S., Ph.D.)
Mathematics Education (M.A.T.: 5-9 or 6-12)
Measurement and Evaluation (M.Ed., Ed.S., Ph.D.)
Music Education(contact the College of Visual and Performing Arts)
Physical Education (M.A.)
Reading Education (M.A., Ed.S., Ph.D.)
School Psychology (only available when combined with the Ed.S. or Ph.D. degree) (Ed.S., Ph.D.)
Science Education (M.A.T.)
Science Education (Biology, Chemistry, or Physics) (M.A., M.Ed., Ed.S., Ph.D.)
Second Language Acquisition and Instructional Technology (SLAIT) joint program with the College of Arts & Sciences (Ph.D.)
Teaching and Learning in the Content Area: General Education (Ph.D.)
Secondary Education (Ph.D.)currently closed to new admissions
Secondary Education (Social Science Education) (Ph.D.)
Social Science Education (M.A., M.A.T., M.Ed.)
Special Education (Ed.S., Ph.D.)
Special Education, Behavior Disorders (M.A.)
Special Education, Exceptional Student EducationVarying Exceptionalities/ESOL (M.A.T.)
Special Education, Gifted Education (M.A.)
Special Education, Mental Retardation (M.A.)
Special Education, Motor Disabilities (currently unavailable)
Special Education, Specific Learning Disabilities (M.A.)
Vocational Education (ED. S.)

Graduate Certificates Offered:
Career Counseling*
College Teaching*
Diversity
English Education
Florida Adapted Physical Education* (on hiatus)
Foreign Language Education
Gifted Education**
Instructional Technology: Distance Education**
Instructional Technology: Florida Digital Educator
Instructional Technology: Instructional Design*
Instructional Technology: Multimedia Design
Instructional Technology: School Networks
Instructional Technology: Web Design**
Leadership in Developing Human Resources
Literacy in Elementary Programs (on hiatus)
Mental Health Counseling*
Play Therapy
Post-Master's Educational Leadership (K-12)
Reading Certificate and Endorsement Program
Research Methods
Science Education
Social Science Education
*Partially online curriculum
**Fully online curriculum

For all certificates; access www.usf.edu; click on Academics; click on Graduate Certificates

Degree Programs

Master of Arts	M.A.
Master of Arts in Teaching	M.A.T.
Master of Education	M.Ed.
Education Specialist	Ed. S.
Doctor of Education	Ed.D.
Doctor of Philosophy	Ph.D.

Master's Degree Programs and Requirements
The master's programs offered in the College of Education lead to a Master of Arts degree (M.A.), a Master of Arts in Teaching degree (M.A.T.), or a Master of Education (M.Ed.) degree. Students pursuing a Master's degree must have an earned

baccalaureate degree from a regionally accredited institution, or an equivalent foreign degree as determined by an evaluation conducted by an agency approved for foreign credential evaluation. Most programs offer through their M.A.T. degrees, a plan of study that leads to initial teacher certification for holders of a non-education baccalaureate degree.

The **M.A**. degree is primarily designed to increase competence in a teaching specialization or to provide professional preparation in one of the service areas of education. For most programs, two plans of study are available depending on the student's background and professional goals.

College of Education Requirements for the Master of Arts (M.A.) Degree
A minimum of 30 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program.

The M.A., **Plan I–**program of graduate study is for those with a degree or appropriate initial teacher certification in the area of concentration who desire to increase their competence in a subject specialization or to receive additional professional preparation in an educational service area. The Plan I program is not available in all concentration areas. Contact the program for information.

Plan I Degree Requirements
Most Plan I students must take a minimum of one of the following Process Core (Foundation) courses. Additional requirements are described under the Program descriptions.
Process Core 3-12 hours
EDF 6211 or EDF 6215
EDF 6481, EDF 6432
EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization - 3 hours
Concentration - 18 hours minimum
Comprehensive Examination
Thesis (Some programs have a Thesis option available)
Note: Check with the program of interest for programmatic variations.

The M.A., **Plan III** (not available in all areas)- This is a program of graduate study for the holder of a non-education baccalaureate degree who does not desire to meet initial certification requirements in the State of Florida. This plan is not available in all concentration areas. Please contact the program for information.

Plan III Minimum Program Requirements:
Process Core 12 hours
EDF 6432, EDF 6481
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization – 3 hrs.
Undergraduate Pre-requisites as necessary
Concentration (Content) – 18 graduate hrs. minimum
Comprehensive Examination

Note: Check with the program of interest for programmatic variations.

The **M.A.T.** degree is designed for holders of a non-education baccalaureate degree who desire to meet initial teacher certification requirements as part of a graduate program. The baccalaureate degree must be appropriate (as deemed by program faculty) for the teaching field in which certification is sought. Reference the program for M.A.T. degree requirements.

The **M.Ed.** degree is designed for individuals who have a minimum of two years of relevant educational or professional experience in the concentration selected, as judged by the program faculty. This degree option is offered to students pursuing graduate study in educational leadership or curriculum and instruction with an associated specialization/concentration.

College of Education Requirements for the Master of Education degree (M.Ed.)
Two degree tracks are offered.

1. **Educational Leadership** The M.Ed. in Educational Leadership is designed to improve performance in K-12 school leadership. The degree provides coursework that meets Florida Educational Leadership Core Curriculum requirements in public school curriculum and instruction, organizational management and development, human resource management and development, leadership skills, communication skills, technology, educational law, and educational finance. Successful completion of the program fulfills degree and core curriculum requirements for Florida certification in Level I, K-12 Educational Leadership-Administrative Class. See description under the program section for specific requirements.

2. **Curriculum and Instruction** The M.Ed. degree in Curriculum and Instruction, with a concentration (specialization) area – This degree is designed for the individual who has a minimum of two years of relevant educational or professional experience in a specialization area who wishes to pursue advanced study in that area. The primary objective is to prepare instructional leaders through courses in curriculum, methods, supervision, learning principles, human interaction, and areas of concentration/ specialization. The foundation areas (professional studies) receive greater emphasis in the M.Ed. programs than the M.A. programs. Coursework in the concentration/specialization may include courses in colleges other than the College of Education.

The M.Ed. degree requires a minimum of 33 semester hours with 60 percent or more of the courses at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program.

Master of Education (M.Ed.) Degree Requirements:
Program of Study
Process Core 12 hours minimum
EDF 6432 EDF 6481
EDF 6211 or EDF 6215 or equivalent
EDF 6517 or EDF 6544 or
EDF 6606 or equivalent
EDG 6627 (a prerequisite course may be required at the undergraduate level)
Curriculum and Instruction 3 hours min.
Concentration (Content Specialization) 18 graduate hours minimum
Comprehensive Examination

See individual program descriptions and contact the program of interest for programmatic variations.

Advanced Graduate Degree Programs
The advanced graduate degree programs lead to the **Education Specialist (Ed.S.)** degree, the **Doctor of Education (Ed.D.)** degree, and the **Doctor of Philosophy (Ph.D.) degree**. To be considered for admission to any advanced graduate degree program, students must have earned degrees from regionally accredited institutions, or hold equivalent foreign degrees as determined by an evaluation conducted by an agency approved for foreign credential evaluation, meet the program and/or college-specified minimum GRE and/or GPA requirements and be favorably recommended also by program faculty or a program admissions committee. Additionally, students must comply with any other college or program requirements specified for the prospective degree program. **Note: Please check with the program of interest for programmatic variations.**

The Ed.S. and Ph.D. degrees with a concentration in Interdisciplinary Education are administered by the Interdisciplinary Education Program Coordinator, Dr. E.V. Johanningmeier, EDU 380-S, (813) 974-9495.

Education Specialist Degree Program (Ed.S.) This degree is offered in the areas of **Educational Leadership** and in **Curriculum and Instruction** with a concentration area.

College of Education Requirements for the Education Specialist Degree (Ed. S.)
The Ed. S. degree consists of a minimum of 36 hours beyond the master's degree and is flexible in its requirements. The degree is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student's program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Program of Study
Concentration coursework 27 hours minimum.
Thesis (Project) 9 hours minimum
Comprehensive Examination (oral and/or written)
Oral defense of the project/thesis

Thesis/Project – Ed.S. Degree. The student is required to plan and successfully complete an individual thesis or project. The purpose is to provide an opportunity for the student to apply knowledge gained in the program to the resolution of significant needs arising from professional practice. A minimum of 9 semester hours of thesis enrollment is required in the Ed.S. degree program. Students are required to enroll for a minimum of 2 semester hours in the 6971 thesis course each semester while working on the Ed.S. project and for 2 graduate semester hours in the semester during which the student plans to graduate. Students who have not completed the project after enrolling in the required 9 hours must continue to enroll in a minimum of 2 graduate credit hours each semester, including the semester in which the project is submitted to the College Associate Dean for

Academic Affairs or Graduate Studies (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee.

Doctor of Education Degree Program (Ed. D.)
The Doctor of Education degree is available in Educational Leadership and in Educational Program Development with concentrations/ specializations in Adult Education, Educational Leadership (K-12 and College Leadership), Elementary Education, Special Education Administration and Supervision, and Vocational Education. The focus of this degree program is on the improvement of educational practice. Although research skills are recognized as being the basis of any doctoral program, the Ed.D. is considered more a practitioner's than a research degree. Currently, the degree in Special Education Administration and Supervision is closed to new admissions.

College of Education Minimum Requirements for the Doctor of Education Degree (Ed. D.)

Program of Study
The Ed. D. requires a minimum of 76 hours beyond the master's degree.
Concentration
Major Emphasis Area 24 hours
Curriculum and Instruction 6 hours
Statistics/Measurement/ Research Design 11-16 hours
Psychological and Social Foundations 11-12 hours
Dissertation 24 hours min.

Dissertation
Beginning with the semester immediately following admission to candidacy, students must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. Students may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. Students may elect not to register for dissertation hours during the summer semester if in this two-year period they are not using university facilities or other USF resources, including faculty and staff time.

If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is not completed by the time the 24 hours of dissertation credit have been accrued, students must enroll continuously, including Summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final submission of the dissertation is made to the Graduate School).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified may result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required for readmission by the University Office of the Graduate School, or the department.

Residency
Ed.D. students must enroll for at least nine hours of graduate work in each of two semesters in a 12-month period. Individual programs may have additional residency requirements.

Doctoral Qualifying Examination
Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, http://www.coedu.usf.edu and click on "Important Info"; also consult Faculty Program Advisor).

Doctor of Philosophy Degree Program (Ph.D.)
The Doctor of Philosophy degree is available in Curriculum and Instruction with concentrations in the following areas: Adult Education, College Student Affairs, Counselor Education, Early Childhood Education, Elementary Education, English Education, Higher Education, Instructional Technology, Interdisciplinary Education, Mathematics Education, Measurement and Evaluation, Reading/Language Arts Education, Science Education, Secondary Education (Social Science Concentration), and Special Education. Contact the College of Visual and Performing Arts for information on the Ph.D. in Music Education.

The Ph.D. degree is also available in School Psychology, and Second Language Acquisition and Instructional Technology (a joint program with the College of Arts and Sciences).

College of Education Minimum Requirements for the Doctor of Philosophy Degree Program (Ph.D.) in Curriculum and Instruction.

Refer to the program sections for Ph.D. requirements for School Psychology and Second Language Acquisition/Instructional Technology (SLAIT).

Program of Study

Ph.D. program requires a minimum of 75 credit hours beyond the master's degree.

Concentration/Specialization
Major Emphasis Area 18 graduate hours minimum
Curriculum & Instruction 3 hours
Cognate Area 12 hours min.
Statistics/Measurement/Research Design 11-16 hours
Psychological and Social Foundations 7-8 hours min.
Dissertation 24 hours minimum

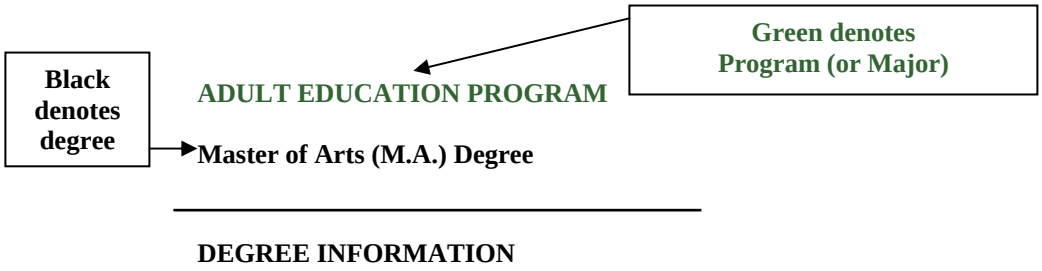
Dissertation, Residency, Doctoral Qualifying Examination

Refer to the COE Graduate Handbook, (www.coedu.usf.edu), and click on "Important Info". Note that the College of Education Residency section for the Ph.D. degree indicates that half time employment is required in addition to registering for nine graduate hours per semester, two semesters in a 12 month period.

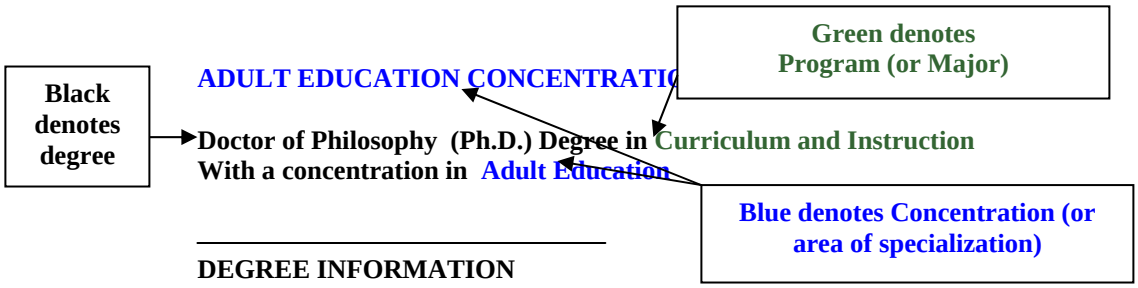
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

ADULT EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1201
Dept Code: LEA
Program (Major/College): AAE ED

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Adult Education program provides professional development opportunities to individuals concerned with the learning of adults. It includes courses and experiences for persons employed in or intending to enter adult education as a field of study. This degree is intended to help individuals work with adult learners in a wide variety of school and non-school settings. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. This Adult Education degree is a Plan III, non-certification option.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Admission to the M.A. program in Adult Education is based on a holistic evaluation of the applicants' demonstrated potential to complete successfully all of the course and research requirements specific to the degree. Success in the program requires excellent presentation and high quality writing skills, scholarship, and a commitment to systematic inquiry.

The admissions committee will consider each applicant in light of his or her qualifications and likelihood of success. The faculty takes into account all of the information, and balances previous grade point averages, test scores, previous success in graduate course work, recommendations, and professional goals.

Admission Process

For consideration for admission, students must submit:

1. A clear and detailed statement of professional and personal goals describing the reasons that earning the degree is important o those goals;
2. Two letters of recommendation, preferably at least one from a current or former professor who will attest to the applicant's likelihood of success in a graduate program;
3. A grade point average while classified as an upper division student in a baccalaureate degree at a regionally accredited university of 3.0 on a 4.0 scale; or
4. A Master's degree in a related field from a regoinally accredited institution with an overall GPA of at least 3.5 on a 4.0 scale; or
5. Strong GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is very low, the other should be considerably higher. In some instances, GMAT, LSAT or MCAT scores may be substituted for the GRE.
6. If the upper division undergraduate GPA is less than 3.0, the applicant must also have GRE Scores. In the case of a GPA below 3.0, the faculty expect to see high GRE scores, usually exceeding 500 on both the

verbal and quantitative subtests. In the event that an applicant does not meet the 3.00 GPA, or the GRE expectations, the applicant must complete at least 6 graduate semester hours as a non-degree seeking student in coursework taught by an adult education program faculty member before consideration for admission;

7. have proof of educational or professional experience;

8. obtain favorable recommendations for admission at the department and college levels and,

9. satisfy any additional academic requirements or prerequisites identified by the program.

Coursework may be allowed in lieu of the GPA or GRE requirement. In exceptional cases, students not meeting the above criteria may be considered for admisson by successfully completing at least 6 graduate semester hours of coursework taught by an adult education program faculty member.

Students may additionally submit documentation of their potential for success with inclusion of the following;

1. Significant successful profesional experiences related to the academic program and professional goals of the applicant;

2. Demonstrated commitment to personal and professoial growth and development and to the completion of the coursework and project demands of the program;

3. Excellent communication skills.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

A minimum of 36 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are inappropriate for the master's degree program. This program is available as a Plan III non-certification option.

Program of Study (non-thesis option) 36 hours

Process Core 6 hours:
EDF 6481 or EDF 6432 and one approved Psychological or Social Foundations course.

General Adult Education (ADE 6080 or approved alternative) 4 hours

Specialization in Adult Education 12 hours, to include:

Required Courses ADE 6385, EDG 6931 (prior approval needed).

Remaining hours to be selected from among: ADE 6160 ADE 6197 ADE 6280 ADE 6287 ADE 6370 ADE 6946 ADE 6161 ADE 6360 EDG 6906

Comprehensive Examiniation Required

Other courses offered throughout the University may be selected as part of the remaining hours needed for degree completion based upon the student's selection and program advisor's approval. At least one course must be taken outside the program area.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ADULT EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Adult Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CAE

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

ADULT EDUCATION CONCENTRATION

Education Specialist (Ed.S.) degree in the Curriculum and Instruction Program
With a concentration in Adult Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Specialist
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	SAE

CONTACT INFORMATION

College:	Education
Department:	Adult, Career & Higher Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
This Ed.S. program prepares practitioners and teachers for the broad field of Adult Education. This includes public and proprietary schools, and non-school based settings such as business and industry, the professional associations, community agencies, and governmental units.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools**.**

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Program Admission Requirements

Admission to Ed. S. program in Adult Education is based on a holistic evaluation of the applicants' demonstrated potential to successfully complete all of the course and research requirements of the specific degree programs. Success in the program requires excellent skills, scholarship in writing and research, and a commitment to high quality and systematic inquiry.

The program faculty will consider each applicant in light of his or her qualifications and likelihood of success. Applications are considered on a continuous basis throughout the year, although the offering of courses favors fall semester for initial registration. The faculty employ a holistic approach to the admissions consideration, taking into account all of the information and balancing test scores, previous grade point averages, recommendations, professional experiences and successes, etc.

Admission Process

For consideration for admission, students must submit:

1. A current professional vita or resume;
2. A clear and detailed statement of professional and personal goals describing the reasons that earning the doctorate is important to those goals;
3. Three letters of recommendation from former professors or supervisors who will attest to the applicant's likelihood of academic success in the doctoral program;
4. A master's degree from a regionally accredited university with a 3.5 GPA on a 4.0 scale at the graduate level or a 3.0 GPA for work done while classified as an upper division student in a baccalaureate degree program.
5. GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is low, the other should be considerably higher. In some instances, GMAT, LSAT or MCAT scores may be substituted for the GRE;
6. Proof of educational or professional experience;
7. Significant successful professional experiences related to the academic program and professionals goals of the applicant;

8. Demonstrated commitment to personal growth and development and to the completion of the rigorous course and research demands of the program;

9. Excellent academic, analytical and communication skills.

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In exceptional cases, students not meeting these criteria may submit additional or alternative documentation of their potential for success in doctoral level studies.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study:	36 hours minimum
Specialization:	18 hours minimum
Electives:	9 hours
Thesis/Project:	9 hours

Comprehensive Examination
Oral defense of the project/thesis.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES
Courses include, but are not limited to: ADE 7076; ADE 7676; ADE 7388; ADE 7937; ADE 7931; ADE 7910; ADE 7947; EVT 7168.

See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION
Please check with program before applying

ADULT EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Adult Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DAE

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
Prepares leaders, researachers, university faculty, and related personnel to serve in the broad field of adult education.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Admission to the Ph.D. program in Adult Education is based on a holistic evaluation of the applicants' demonstrated potential to successfully complete all of the course and research requirements of the specific degree programs. Success in the program requires excellent skills, scholarship in writing and research, and a commitment to high quality and systematic inquiry.

The program faculty will consider each applicant in light of his or her qualifications and likelihood of success. Applications are considered on a continuous basis throughout the year, although the offering of courses favors fall semester for initial registration. The faculty employ a holistic approach to the admissions consideration, taking into account all of the information and balancing test scores, previous grade point averages, recommendations, professional experiences and successes, etc.

Admission Process

For consideration for admission, students must submit:

1. A current professional vita or resume;
2. A clear and detailed statement of professional and personal goals describing the reasons that earning the doctorate is important to those goals;
3. Three letters of recommendation from former professors or supervisors who will attest to the applicant's likelihood of academic success in the doctoral program;
4. A master's degree from a regionally accredited university with a 3.50 GPA on a 4.00 scale at the graduate level or a 3.00 GPA for work done while classified as an upper division student in a baccalaureate degree program.
5. GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is low, the other should be considerably higher. In some instances, GMAT, LSAT or MCAT scores may be substituted for the GRE.
6. Proof of educational or professional experience
7. Significant successful professional experiences related to the academic program and professionals goals of the applicant;
8. Demonstrated commitment to personal growth and development and to the completion of the rigorous course and research demands of the program;

9. Excellent academic, analytical and communication skills.

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study:	75-81 hours
Specialization/Concentration:	18 hours min.
Cognate Area:	12 hours
Curriculum and Instruction:	3 hours
Measurement/Statistics/Research Design:	11-16 hours
Psychological and Social Foundations:	7-8 hours
Dissertation (ADE 7980):	24 hours min.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ADULT EDUCATION CONCENTRATION

Doctor of Education (Ed.D.) Degree in the Educational Program Development Program
With a concentration in Adult Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 62-65
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): EPD ED
Concentration Code: EAE

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Program Description
Prepares leaders for adult, continuing education, and human resource development positions in a variety of employment settings. The program is designed to develop the competencies of educational practitioners and to obtain and synthesize knowledge for the solution of educational problems and practices.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Admission to the Ed.D. program in Educational Program Development with an emphasis in Adult Education is based on a holistic evaluation of the applicants' information and balancing test scores, previous grade point averages, recommendations, professional experiences and successes, etc.
Success in the program requires excellent skills of scholarship in writing and research and a commitment to high quality and systematic inquiry.

The program faculty will consider each applicant in light of his or her qualifications and likelihood of success. Applications are considered on a continuous basis throughout the year, although the offering of courses favors fall semester for initial registration

Admission Process
For consideration for admission, students must submit:

1. A current professional vita or resume;
2. A clear and detailed statement of professional and personal goals describing the reasons that earning the doctorate is important to those goals;
3. Have previous experience or a strong desire to work with adults in meeting their formal or informal education and/or training needs.
4. Must provide proof of educational or professional experience.
5. Submit a personal statement of the applicant's vision/philosophy for Adult Education and its relationship to the future of Adult Education.
6. Submit three letters of recommendation from persons knowledgeable about the applicant's academic and professional competence as it relates to the successful completion of doctoral studies.
7. Obtain favorable recommendations from the program faculty.
8. Satisfy any additional academic requirements or prerequisites identified by the program.
9. A master's degree from a regionally accredited university (or international

equivalent) with 3.5 GPA on a 4.0 scale and a 3.0 for upper division level undergraduate coursework;

10. Strong overall GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is low, the other should be considerably higher; In some instances, GMAT, LSAT or MCAT scores may be substituted for the GRE.

11. Significant successful professional experiences related to the academic program and professional goals of the applicant;

12. Demonstrated commitment to personal and professional growth and development and to the completion of the rigorous course and research demands of the program

13. Excellent academic, analytical and communication skills.

In exceptional cases, students not meeting these criteria may submit additional or alternative documentation of their potential for success in doctoral level studies.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

For students who do not have a master's degree in adult education, ADE 6080 Adult Education in the United States is a pre-requisite to doctoral study.

Program of Study: 62-65 hours minimum
Basic Core 13 hours*
ADE 7930 Doctoral Seminar in Adult Education
ADE 7388 Adult Development and Learning
EVT 7761 Research Seminar in Vocational, Technical and Adult Education
ADE 7947 Advanced Internship:Adult Education

Concentration (Specialization) Courses 9 hours
Students must take the core of courses listed under the specialization of choice or receive approval from their program of studies committee to take other courses. For those who have not earned a master's degree in adult education, the continuing education and human resource development specialization is the only specialization choice available.

Continuing Education and Human Resource Development Specialization
ADE 6198 Effective Continuing Education for Professional Groups,
ADE 7076 Continuing Education in the Community College and Higher Education
ADE 7676 Human Resource Development Policy Seminar

OR

Career and Workforce Development Specialization
EVT 7066 Foundations and Philosophy of Vocational-Technical Education
EVT 7267 Vocational and Adult Education Program Planning and Implementation
EVT 6661 Current Trends

OR

Community College and Higher Education Specialization
EDH 6051 Higher Education in America or EDH 6061 The Community College in America
EDH 7225 Curriculum Development in Higher Education
EDH 7636 Organizational Theory and Practice in Higher Education

Curriculum and Instruction: 3 hours
The Curriculum component is satisfied by successfully completing one of the following courses:
EDG 7667 Analysis of Curriculum
EDG 7692 Issues in Curriculuim and Instruction
EDH 7225 Curriculum Development in Higher Education
EVT 7168 Instructional Development for Vocational, Technical and Adult Education

Research And Measurement Core: 7-8 Hours
EDF 6407 Stat Analysis Ed. I
EDF 7408 Statistical Analysis for Educational Resesarch II

One of the following courses must also be selected:
EDF 7410 Design of Systematic Studies in Education
EDF 7438 Advanced Educational Measurement I
EDF 7484 Statistical Analysis for Educational Research III
EDF 7493 Systems Approaches for Program Planning, Evaluation and Development
EDF 7477 Qualitative Research in Education Part I and
EDF 7478 Qualitatiave Research in Education Part II

Psychological and Social Foundations Core 6-8 Hours
(At least one course must be taken in each of the Foundation areas.)

Psychological Foundations (Suggested Courses)
EDF 7145 Cognitivie Issues in Instruction
EDF 7655 Organization Development in Educational Institutions

Social Foundations (Suggested Courses)
EDF 6883 Issues in Multicultural Education
EF 7934 Seminar in Social Foundations of Education
EDF 6938 History of Higher Education in the United States

Dissertation **24 hours**
ADE 7980 Dissertation: Doctoral

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

BUSINESS AND OFFICE EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1303
Dept Code: LEA
Program (Major/College): ABE ED

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program

BUSINESS AND OFFICE EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in Curriculum and Instruction
With a concentration in Business and Office Education

DEGREE INFORMATION

Program Admission Deadlines:
Closed for new admissions

Minimum Total Hours:	33
Program Level:	Masters
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	CBE

CONTACT INFORMATION

College:	Education
Department:	Adult, Career & Higher Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

Currently, students are not being admitted to this program
.

CAREER AND TECHNICAL EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Fall admission only

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1320
Dept Code: LEA
Program (Major/College): ACT ED

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The MA Degree in Career & Technical Education (CTE) is designed for practicing professionals in all areas of CTE including Business, Health Occupations, Industrial, Technology, Agriculture, Marketing and Public Service and related areas. The program is designed to assist instructors and current or aspiring leaders to enhance their instructional, program improvement and leadership competencies. This program is available as Plan I and Plan III, non-certification options.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admission Process

The program faculty give preference to applicants with:

1. Experience in the field of Career & Technical Education (or closely related field):
2. Certification in a CTE program area or closely related area (a statement of current certification status in letter of application is sufficient documentation);
3. A grade point average in upper division undergraduate coursework from a regionally accredited university (or international equivalent) of 3.0 on a 4.0 scale:
4. In exceptional cases, a student with an upper-level undergraduate GPA of 2.50-2.99 may be considered for admission (based on age of the degree, discipline, institution and other considerations). In each of those cases, the student must earn a 3.5 GPA in the first two courses in the program to be permitted to continue:
5. A letter of application containing a statement of professional goals
6. A current resume or vita.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

The admissions committee will consider each applicant in light of his or her qualifications and likelihood of success. The faculty employs a holistic approach of the admissions consideration, taking into account all of the information and balancing previous grade point averages, previous success in graduate course work, recommendations, and professional experiences as well as fit of the program to the applicants' personal and professional goals.

DEGREE PROGRAM REQUIREMENTS

Plan I - At least 36 Semester hours including one Process Core course and 18 semeser hours in Career and Technical Education.

Plan III - At least 36 semester hours including course requirements in Career and Technical Education, and at least three Process Core courses which may include MHS 6340. This M.A. degree program does not lead to teacher certification. Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CAREER AND WORKFORCE EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Career and Workforce Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 75-81
Program Level: Doctoral

CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DVO

CONTACT INFORMATION

College: Education

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Program Description
Prepares leaders, researchers, university faculty and related personnel to serve in the broad field of Career and Workforce Education.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission to the Ph.D. program in Career and Workforce Education is based on an evaluation of the applicants' demonstrated potential to complete successfully program coursework and research requirements. Success in the program requires a commitment to rigorous and systematic inquiry in the field along with excellent research skills and high quality scholarship.

Program faculty employ a holistic approach to admissions consideration, taking into account all of the information provided by applicants to balance test scores, previous grade point averages, recommendation forms, professional experiences and successes, etc.

Application Materials. To be considered for admission, all applicants must submit the following application materials unless a particular requirement can be waived or additional/alternative documentation can be accepted as stated in Admissions Criteria:

1. The University's Graduate Admissions Application and related items (see Office of Graduate Admissions website at: http://admissions.grad.usf.edu/).
2. Official Graduate Record Examination (GRE) scores.
3. A current professional vita or resume.
4. A cover letter including a statement of professional and personal goals, and reasons that earning the doctorate is important to those goals.
5. Three Program Recommendation Forms (available for downloading at program website) completed by former professors or supervisors rating the applicant's likelihood of success in the doctoral program.
6. Other application materials as required for international students who must apply through the Office of International Admissions. For a complete list of related requirements visit the office website at: http://web.usf.edu./iac/admissions/.

PROGRAM ADMISSION REQUIREMENTS

1. A master's degree from a regionally accredited university with a 3.5 or higher graduate grade point average (GPA) on a 4.0 scale.
2. GRE scores with no more than one sub-score below the 33rd percentile. If a score in one area is very low, the other should be considerably higher.
   a. In exceptional cases, students not meeting this criterion may submit additional or

alternative documentation of their potential for success in doctoral level studies.

b. GRE scores may be waived in exceptional cases for applicants who have graduated from master's degree programs in the Adult, Career, and Higher Education Department at USF with a GPA of 3.9 or higher (on a scale of 4.0) and received excellent ratings from program faculty (i.e., recommendation forms).

3. Evidence of significant successful professional experiences supporting the fit between professional background, goals, and the applicant's potential doctoral program of study.
4. Demonstrated commitment to personal and professional growth and development and to the completion of the rigorous course and research demands of the Ph. D. program.
5. Excellent academic, analytical and communication skills.
6. Personal or phone interview.

Applicants are responsible for evaluating their individual alignment with criteria for admission to the program, and ensuring that all pertinent materials are submitted for application to the program.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

Admission Process. Applicants are responsible for submitting applications and fees directly to the Office of Graduate Admissions before the program or university application deadlines (see Graduate Admissions website at: http://admissions.grad.usf.edu/).

Applications are considered on a continuous basis throughout the year, although students are formally admitted into the program every two years beginning in the fall semester (see program website for upcoming program cycle). Applicants should be aware that meeting admissions requirements does not guarantee admission to the program. To ensure appropriate faculty support, the program will accept only a limited number of students every two years and in some cases applicants meeting or exceeding admission requirements may not be accepted for the requested starting date. To this end, applicants are strongly encouraged to apply early to the program.

DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 75-81 hours beyond the master's degree.

Program of Study	
Specialization in Vocational Education minimum	18 hours
Curriculum and Instruction	3 hours
Cognate	12 hours
Statistics/Measurement/Research Design	11-16 hours
Psychological and Social Foundations	7-8 hours
Dissertation (EVT 7980)	24 hours

Dissertation, Residency, and Doctoral Qualifying Examination. See section with College Requirements.

COLLEGE STUDENT AFFAIRS CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in College Student Affairs

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Fall Admission only

Minimum Total Hours: 42
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CSA

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The College Student Affairs (CSA) M.Ed. Program at the University of South Florida fosters the intellectual and professional development of individuals seeking careers as student affairs administrators in institutions of higher education. Graduates will be prepared for entry level and mid-management positions in student affairs areas such as: residence life, career services, orientation, student activities, admissions, advising, and financial aid.

This program is designed for full-time students or individuals who currently hold full-time positions within the field of student affairs.

Program Description
The CSA Program at the University of South Florida emphasizes three major components: Foundational Studies, Professional Studies, and Supervised Practice, as recommended by the Council for the Advancement of Standards in Higher Education. The curriculum includes theories of human growth and development, environmental influences, and social science based interventions as applied to student affairs practice. The instructional method of relating theory-to-practice is accomplished by involving students in rigorous classroom activity along with internships in specialized areas of student affairs work.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

The CSA Program admits 18-25 students each Fall semester Applicants to the College Student Affairs (CSA) program must meet the admission requirements as established by the Graduate School and the College of Education and should have experience relevant to the program. For admission, all programs require earned degrees from regionally accredited institutions.

Requirements for all applicants include:

1. Official Graduate Record Examination (GRE) score of at least the 50th percentile Verbal and the 50th percentile Quantitative.
   Or
   A Miller's Analogy Test (MAT) score of at least 50
2. Undergraduate GPA of at least 3.0 on a four-point scale for work done while an upper division student in the Baccalaureate degree.
3. Proof of educational or professional experience
4. Provide letters of recommendation
5. Complete an interview with a program committee. Program interviews take place one day per week from January through May.
6. Provide a personal statement of professional goals, resume, and assistantship application.

An assistantship is required for all admitted students. Applicants are required to interview with assistantship supervisors for the various available positions. This process varies from department to department. Students

are encouraged to attend the annual Open House event held every Spring to interview in person for assistantship placements. Applications from qualified candidates received by March 15 will have a better opportunity of securing their first choice of assistantship. Students will be interviewed as applications arrive, and assistantship placements will be determined as soon as a match is made.

More detailed information about the program, application process, assistantships, and course sequence can be found on the website. http://csa.sa.usf.edu

Students who have GRE subtest scores of less than the 50th percentile or MAT scores of less than 50 must have GPAs above 3.2 in order to be considered for admission. Students who have GPAs of 3.65 or more may have the GRE/MAT requirement waived.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

42 Credit hours minimum, to include:

SDS 6042 Introduction to Student Affairs
SDS 6624 Ecology of Campus Life
SDS 6645 Student Development Theory
SDS 6701 Issues in Diversity
SDS 6703 The Law & Student Affairs
EDF 6165 Group Processes
EDF 6481 Foundations of Educational Research
EDF 6935 Wellness Seminar
EDF 6281 Workshop & Conference Design
EDF 6944 Field Experience
EDG 6947 Internship
EDF 6938 Special Topics

A comprehensive examination is also required. Please contact the program for specific information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
http://csa.coedu.usf.edu

COLLEGE TEACHING PROGRAM

Master of Arts (M.A.) Degree in the College Teaching Program
With Concentrations in Biology, Business, Chemistry, Economics, Engineering, English, French, Geography, Geology, History, Mathematics, Physics, Political Science, Sociology, Spanish, and Speech Communication

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15*
Spring:	October 15*
Summer:	March 1*

Minimum Total Hours:	36-39
Program Level:	Masters
CIP Code:	13.0406
Dept Code:	LEA
Program (Major/College):	JCT EJ
Concentration Code:	JBI

CONTACT INFORMATION

College:	Education
Department:	Adult, Career & Higher Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

***Currently, students are not being admitted to this program.**

(GUIDANCE &) COUNSELOR EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 1
Fall admission only.

Minimum Total Hours: 60-63
Program Level: Masters
CIP Code: 13.1101
Dept Code: EDF
Program (Major/College): AGC ED

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
This is a limited access program with internal deadlines. Please check with he program prior to applying. The Counselor Education program provides students with the general counseling skills needed to become professional counselors. Graduates are trained to assess problems, counsel clients, select appropriate intervention strategies and consult with other professionals and administrators. All students complete a common core of courses plus additional courses appropriate to their chosen program. Included are courses in communication skills, counseling theory, research, practicum, and internship. In addition to the Master's degree, the Educational Specialist degree, and the Doctoral degree**,** the program offers Graduate Certificates in Play Therapy, Mental Health Counseling, and Career Counseling. The program offers three plans for a Master of Arts degree.

School Counseling (Plan II): Prepares counselors to work in school grades K through 12. The School Counseling Program prepares counselors for employment in elementary, middle and/or high schools. The program is designed to produce educationally oriented counselors with broadly based, multidisciplinary backgrounds. Graduates are trained to counsel students to consult with parents, teachers, and other school personnel, to coordinate the resources of the family, school, and the community to meet the developmental needs of students. Upon completion of this program, students are eligible to be certified by the Florida Department of Education as a School Counselor.

Plan III--Community Counseling
Plan III programs are for students who prefer to work in community based counseling positions rather than in elementary or secondary schools. There are two Plan III program options: (a) Mental Health Counseling and (b) Career Counseling.

The Community/Mental Health Counseling concentration prepares students to work in a variety of community settings. This program is relatively broad in scope and focuses on the development of general counseling skills that can be applied to a wide range of clients in diverse settings. The program is designed to meet the curriculum requirements for licensure as a Mental Health Counselor in Florida. Graduates of this plan are eligible to take the state examination and to complete a post-master's track supervised internship (a post-master's degree requirement).

The Community/Career Counseling concentration focuses on the life-career development needs of individuals and groups. Individuals with this specialization typically find employment opportunities in career centers of community colleges and universities, as well as businesses and in individual practice. This specialization provides the curriculum for students to become Nationally Certified Counselors which can be acquired by passing the National Counselor Examination and completion of two years of post-masters supervised counseling experience. The plan is designed to prepare effective career counselors; it does not lead to school counseling certification nor community/mental health licensure (additional course work would be required).

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, and Council for the Accreditation of Counseling and Other Educatoinal Related Programs (CACREP).

Major Research Areas:
Multicultural counseling and development, Career development, Play Therapy, Cognitive-behavioral interventions, Community mental health, and Counselor Education and supervision

ADMISSIONS INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements also include:

1. A Graduate Record Examination (GRE) Score of at least the 50th percentile Verbal and the 50th percentile Quantitative (writing not required).
   Or
   A Miller's Analogy Test (MAT) score of at least 50
2. GPA of at least 3.0 on a 4.0 scale for work done while an upper division student in a Baccalaureate degree. Students who have GRE subtest scores of less than the 50th percentile or MAT scores of less than 50 must have GPAs above 3.2 in order to be considered for admission.
3. CLAST/GKT Required (School Track only)
4. Proof of educational or professional experience
5. Letters of recommendation

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions..

DEGREE PROGRAM REQUIREMENTS

Contact the program assistant for detailed information prior to applying.

School Counseling (Plan II) Track
Program of Study 63 hours minimum

Process Core - 8 hours- EDF 6354 (4) EDF 6217 (4)
- MHS 6006 Current Trends in Counseling 4
- EDF 6481 Research 3

- MHS 6450 Substance Abuse 4
- MHS 6420 Multicultural Issues 3
- MHC 6470 Human Sexuality 4

Counseling Core - 25 hours
- MHS 6200 MHS 6340 MHS 6400 MHS 6311
- MHS 6509 MHS 6700 MHS 6800 or SDS 6801

School Counseling Concentration - 9 hours
- MHS 6601 SDS 6820 MHS 6930

Comprehensive Examination
Refer to www.coedu.usf.edu/sas for internship and State of Florida testing requirements.

A. Community/Mental Health Counseling Track
Program of Study 62 hours minimum

Process Core EDF 6354 4
Current Trends in Counseling MHS 6006 4
Research EDF 6481 3
Multicultural Issues MHS 6420 3
Counseling Core - 25 hours
- MHS 6200 MHS 6340 MHS 6400 MHS 6311
- MHS 6509 MHS 6700 MHS 6800

Mental Health Specialization - 23 hours
- MHS 6620 MHS 6070 MHS 6450
- MHS 6470 MHS 6885

Comprehensive Examination

B. Career Counseling Track

Program of Study 60 hours minimum

Process Core
- EDF 6354 (4) SDS 6520 SDS 6042 SDS 6624
- MHS 6006 Current Trends in Counseling 4
- EDF 6481 Research 3
- MHS 6420 Multicultural Issues 3

Counseling Core 25 hours
- MHS 6200 MHS 6340 MHS 6400 MHS 6311
- MHS 6509 MHS 6700 MHS 6800

Career Counseling Specialization - 12 hours
- MHS 6601 MHS 6341 MHS 6887

Elective (Options include the following) - 3 hours
- INP 6056 INP 6935 RCS 6300
- EVT 6264 EVT 6769 SDS 6042

Comprehensive Examination

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.Graduate Certificates are also available in several areas. More information on the certificate programs can be obtained from the Graduate Certificate website:
http://www.outreach.usf.edu/gradcerts/certinfo.asp?certname=GE

COUNSELOR EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program With a concentration in Counselor Education

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15th
Fall admission only

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SGC

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Ed.S. Degree in Curriculum and Instruction with concentration in Guidance and Counseling is designed to provide professional counselors with an opportunity to develop competencies in areas of special needs and interests. Consequently, each student's program is individually planned in consultation with a faculty advisor.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent. All candidates for admission must have a 48-semester hour master's degree in counseling or a closely related field from a regionally accredited institution or its international equivalent. The master's degree must have included a 600 hour internship and coursework in theories of counseling, principles of counseling, group counseling, career development, multicultural counseling, and practicum in counseling.

Requirements for all applicants include:

1. A Graduate Record Examination (GRE) score above the 65th percentile Verbal and above the 55th percentile Quantitative (writing not required). Official scores should be in a sealed envelope provided by Educational Testing Service or recorded on an official transcript. **OR** A Miller Analogy Test (MAT) score of at least 50. Students who have graduate GPAs of 3.80 or more may have the GRE/MAT requirement waived.
2. A graduate GPA of at least 3.75 on a four-point scale.
3. Vita or resume
4. Proof of educational or professional experience
5. Letters of recommendation
6. Interview
7. Personal statement describing the applicant's professional goals and reasons for applying to the program are required.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study **36 hours**
This degree is flexible in coursework and must be planned with a faculty advisor. Contact the Program for information.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

This is a limited access program with internal deadlines. Please check with program prior to applying.

COUNSELOR EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Counselor Education

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15th
Fall admission only

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DGC

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Pogram Description
The Ph.D. Degree in Curriculum and Instruction with Concentration in Guidance and Counseling is a research and theory intensive experience designed to provide a balance of intellectual and experiential learning resulting in professional educators who have multiple competencies as researchers, theorists, and problem-solvers in human growth and development. The doctoral program emphasizes research and theory as opposed to clinical skill development and is designed primarily for students who wish to pursue careers in academic institutions.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: Career development, clinical supervision, mental health counseling, multicultural counseling, and play therapy.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

All candidates for admission must have a 48-semester hour master's degree in counseling or a closely related field from a regionally accredited institution or its international equivalent. The master's degree must have included a 600 hour internship and coursework in theories of counseling, principles of counseling, group counseling, career development, multicultural counseling, and practicum in counseling.

Requirements for all applicants include:

1. A Graduate Record Examination (GRE) score above the 65th percentile Verbal and above the 55th percentile Quantitative (writing not required). Official scores should be in a sealed envelope provided by Educational Testing Service or recorded on an official transcript.
   Or
   A Miller Analogy Test (MAT) score of at least 50.

Students who have graduate GPAs of 3.80 or more may have the GRE/MAT requirement waived.

2. A graduate GPA of at least 3.75 on a four-point scale.
3. Vita or resume
4. Proof of educational or professional experience. A 48-semester hour Master's degree in counseling or a closely related specialty and at least three (3) years of post-master's professional work experience is required
5. Three (3) letters of recommendation
6. Personal interviews for all candidates except in situations that would require extensive travel.
7. Personal statement describing the applicant's professional goals and reasons for applying to the program

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with

program regarding the policy on evaluation of transcripts. For more information, please visit
http://web.usf.edu/iac/admissions
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DEGREE PROGRAM REQUIREMENTS

Program of Study:	**75 hours minimum**
Research Core:	28 hours
Theory:	15 hours
Clinical Core:	12-16 hours
Professional Practice:	6 hours
Cognate:	9-12 hours

Additional hours to be determined by faculty advisor.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

This is a limited access program that has internal deadlines. Please check with program prior to applying.

CURRICULUM AND INSTRUCTION PROGRAM

Master of Education (M.Ed.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Refer to individual concentration areas for information on deadlines

Minimum Total Hours: 33
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED

CONTACT INFORMATION

College: Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Curriculum and Instruction degree is only offered in conjunction with a concentration area. Please see the area of concentration (listed alphabetically in the catalog) to determine whether or not the Curriculum and Instruction degree is available in your area of interest.

Program Description
This degree is designed for the professional educator who wishes to pursue advanced study. The primary objective is to prepare instructional leaders through courses in curriculum, methods, supervision, learning principles, human interaction, and areas of specialization. The foundation areas (professional studies) receive greater emphasis in the M.Ed. programs than the M.A. programs. Coursework in the concentration may include courses in colleges other than the College of Education. The Curriculum and Instruction program is offered with concentration areas. General program requirements are listed below. For specific specialization requirements, contact the appropriate department.

Accreditation: Programs in the College are accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Refer to each area of concentration for program admission requirements or contact the program for assistance.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://admissions.grad.usf.edu/international .html.

DEGREE PROGRAM REQUIREMENTS

College of Education Program Requirements for the Master of Education degree (M.Ed.)

The M.Ed. degree in Curriculum and Instruction normally requires a minimum of 33 semester hours with 60 percent or more of the courses at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program.

Program of Study Degree Requirements (usual minimums)
Process Core - 12 hours minimum
EDF 6432 EDF 6481 EDF 6211 or EDF 6215 or equivalent
EDF 6517 or EDF 6544 or EDF 6606 or equivalent

Curriculum and Instruction (EDG 6627) - 3 hours minimum; a prerequisite may be required at the undergraduate level

Content Concentration/Specialization - 18 hours minimum
Comprehensive Examination

Individual areas of specialization may have variations in requirements. For information contact the department/program offering the concentration.

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm

CURRICULUM AND INSTRUCTION PROGRAM

Education Specialist (Ed.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Refer to individual concentration areas for information on deadlines

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED

CONTACT INFORMATION

College: **Education**

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Curriculum and Instruction degree is only offered in conjunction with a concentration area. Please see the area of concentration (listed alphabetically in the catalog) to determine whether or not the Curriculum and Instruction degree is available in your area of interest.

Program Description
The Ed.S. degree consists of a minimum of 36 hours beyond the master's degree and is flexible in its requirements. The degree is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student's program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Refer to each area of concentration for program admission requirements or contact the program for assistance.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://admissions.grad.usf.edu/international .html.

DEGREE PROGRAM REQUIREMENTS

Minimums

Specialization (Concentration) Coursework - 27 hours minimum
Thesis/Project - 9 hours minimum
Comprehensive Exam (Oral and/or written)
Oral defense of the thesis/project

Thesis/Project - The student is required to plan and successfully complete an individual thesis or project. The purpose is to provide an opportunity for the student to apply knowledge gained in the program to the resolution of significant needs arising from professional practice. A minimum of nine (9) semester hours of thesis enrollment is required in the Ed.S. degree program. Students are required to enroll for a minimum of 2 semester hours in the 6971 thesis course each semester while working on the Ed.S. project and for 2 semester hours in the semester in which the student plans to graduate. Students who have not completed the project after enrolling in the required 9 hours must continue to enroll in a minimum of two (2) credit hours of 6971 Thesis each semester, including the semester in which the project is submitted to the College Associate Dean for Academic Affairs or the Graduate School (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee.Individual areas of specialization may have additional requirements. For information contact the department/program offering the concentration.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

CURRICULUM AND INSTRUCTION PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Refer to individual concentration areas for information on deadlines

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED

CONTACT INFORMATION

College: Education

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Curriculum and Instruction degree is only offered in conjunction with a concentration area. Please see the area of concentration (listed alphabetically in the catalog) to determine whether or not the Curriculum and Instruction degree is available in your area of interest.

Program Description
Refer to individual areas of concentration for information.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: Information available by accessing the concentration areas, listed alphabetically in the catalog.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Refer to each area of concentration for program admission requirements or contact the program for assistance.

PROGRAM DEGREE REQUIREMENTS

General Program Requirements for the C&I degree, (minimum requirements):

Program of Study – 75-81 hours minimum
Concentration - 18 hours minimum
Curriculum and Instruction - 3 hours
Cognate Area - 12 hours minimum
Statistics/Measurement/Research Design - 11- 16 hours
Psychological and Social Foundations - 7-8 hours
Dissertation - 24 hours

Dissertation- Beginning with the semester immediately following admission to candidacy, the student must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. Students may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. Students may elect not to register for dissertation hours during the summer semester if in this two-year period they are not using university facilities or other USF resources, including faculty and staff time. If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is not completed by the time the 24 hours of dissertation credit have been accrued, students must enroll continuously, including Summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final submission of the dissertation is made to the Graduate School).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified may result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required by the University or the Graduate School.

Residency- Students must enroll for at least nine hours in each of two semesters in a 12-month period. The Ph.D. program requires that during the residency period,

students may be employed no more than half-time. Individual programs may have additional residency requirements.

Doctoral Qualifying Examination - Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, www.coedu.usf.edu, click on information; also consult Faculty Program contact).

Individual areas of concentration may have variations in the requirements. For information contact the department/program offering the specialization of interest.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

DISTRIBUTIVE AND MARKETING EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters

CIP Code: 13.1303
Dept Code: LEA
Program (Major/College): ADE ED

CONTACT INFORMATION

College: Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

DISTRIBUTIVE EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Distributive Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CDE

CONTACT INFORMATION

College: Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

EARLY CHILDHOOD EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 41 hours minimum
Program Level: Masters
CIP Code: 13.1210
Dept Code: EDR
Program (Major/College): ANK ED

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.A. program is designed for students with a bachelor's degree in Early Childhood Education with appropriate initial certification. It is for students who desire to expand expertise in the field and hold leadership positions.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for applicants include:

1. Minimum upper division GPA of 3.0 on a 4.0 scale in a baccalaureate degree.
2. GRE is required for applicants with an upper-division baccalaureate GPA below 3.0 on a 4.0 scale. Contact department for details.
3. Exceptions to minimum requirements will be considered for applicants with National Board Certification and an outstanding professional record.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study:	**42 hours minimum**
Process Core Includes:	12 hours minimum
Trends	3 hours minimum
Specialization/Concentration	18 hours minimum
Focus Area:	9 hours

Option 1. Administration and Supervision
Option 2. Curriculum
Option 3. Special Education

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

EARLY CHILDHOOD EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Early Childhood Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CNK

CONTACT INFORMATION

College: Education
Department: Childhood Education
Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.Ed. Degree in Curriculum and Instruction with a concentration in Early Childhood Education is designed for those students who hold a degree in a related field and wish to improve their skills in teaching young children. When previous professional preparation does not meet graduate course prerequisites, candidates will be expected to complete undergraduate courses as determined through conference with a faculty advisor upon admission to the program. This program is not a teacher certification preparation program.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:
1. Minimum GPA of 3.0 on a 4.0 scale in upper division baccalaureate degree.
2. GRE required for applicants with an upper-division GPA below 3.0 on a 4.0 scale. Contact the department for details.
3. Proof of educational or professional experience as judged by department faculty.

In order to be considered for admission, first-time or transferring graduate applicants must:

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study: **36 hours minimum**

Process Core:	12 hours minimum
Curriculum:	3 hours minimum
Specialization:	21 hours minimum

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

EARLY CHILDHOOD EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program
With a concentration in Early Childhood Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SNK

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Please contact the program for additional information.

EARLY CHILDHOOD EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Early Childhood Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DNK

CONTACT INFORMATION

College:	Education
Department:	Childhood Education

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Program Description
This program prepares leaders in the field of Early Childhood Education such as college and university faculty, directors of programs for school systems, directors in private settings, curriculum specialists and advocates for young children and families.

The program is designed to provide expertise in research into learning processes, designing and evaluating instructional materials and teaching techniques, university and college teaching, and the teaching of diverse learners.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:
1. 40th Percentile GRE scores on verbal, quantitative, and analytical sections
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Letters of recommendation
5. Interview
6. Concept Paper or goal statement

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 75-81 hours beyond the Master's degree. Each student's program is individually planned in consultation with a faculty program committee.

Program of Study	**75-81 hours**
Specialization:	(45 hours minimum)
Cognate:	(12 hours minimum)
Measurement/Statistics/Research Design	(11-16 hours minimum)
Foundations:	(7-8 hours minimum)

For more detailed information see our website at www.coedu.usf.edu/main/

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

EDUCATIONAL LEADERSHIP PROGRAM

Master of Education (M.Ed.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.0401
Dept Code: LEA
Program (Major/College): CAS ED

CONTACT INFORMATION

College: Education
Department: Educational Leadership & Policy Studies

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.Ed. is designed to improve performance in K-12 school leadership. The degree provides coursework that meets Florida Educational Leadership Core Curriculum requirements in public school curriculum and instruction, organizational management and development, human resource management and development, leadership skills, communication skills, technology, educational law, and educational finance. Successful completion of the program fulfills degree and core curriculum requirements for Florida certification in Level I K-12 Educational Leadership– Administrative Class. For complete requirements contact M.Ed. advisor.

The State of Florida requires all persons seeking employment in administrative positions to be certified in Educational Leadership. To be eligible to receive certification an individual shall (1) complete three years of successful teaching; (2) demonstrate proficiency in the Professional Educational Competencies: (3) hold a Master's of higher degree awarded by an accredited institution; (4) document successful completion of the Florida Educational Leadership Core Curriculum; and (5) successfully complete the State of Florida Educational Leadership Examination (FELE). The M.Ed. in Educational Leadership at the University of South Florida meets these requirements.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS); The National Council for the Accreditation of Teacher Education (NCATE); and the Florida Department of Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent. In addition to meeting the University's admission requirements, the following are also required:

1. A valid professional Florida Educator's Certificate (please provide a copy with your application).
2. Three letters of recommendation from professionals who are familiar with your academic and professional work.
3. A letter of intent (brief statement outlining your goals for the degree).
4. Teaching under a full contract for a minimum of two years. Confirmation may be required.
5. A minimum 3.0 GPA on a 4.0 scale in upper division undergraduate coursework).
6. CLAST or GKT

Please Note: If the academic criteria above are not met, candidates are to submit an official Graduate Record Examination score taken within the last five years [verbal, quantitative, and analytical writing].

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://admissions.grad.usf.edu/international .html.

DEGREE PROGRAM REQUIREMENTS

Program of Study **36 hours minimum**

Area A: Core (9 hours)
EDF 6492, EDG 6627, EME 6425

Area B: Leadership Concentration (24 hours)

EDA 6061, EDA 6106, EDA 6192, EDA 6232, EDA 6242, EDA 6503, EDG 6285, EDS 6050
Area C: Field Experience (3 hours)
EDA 6945
Portfolio

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

EDUCATIONAL LEADERSHIP PROGRAM

Education Specialist (Ed.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0401
Dept Code: LEA
Program (Major/College): SAS ED

CONTACT INFORMATION

College: Education
Department: Educational Leadership & Policy Studies

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Ed.S. degree is an advanced graduate degree beyond the master's degree but below the Ed.D. The Ed.S. is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. The degree is flexible, and each student's program is individually planned in consultation with a 3-member faculty program committee.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); the National Council for the Accreditation of Teacher Education (NCATE).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission Requirements

Applicants to the Program must:

1. Submit an official Graduate Record Examination score taken within the last five years [verbal, quantitative, and analytical writing];
2. Hold a Master's degree from a regionally accredited institution and an earned GPA in the Master's degree of at least 3.5 on a 4.0 scale;
3. Hold a Florida Professional Educator's Certificate in Educational Leadership (k-12);
4. Submit three letters of recommendation from persons knowledgeable about the applicant's academic and professional competence;
5. Complete writing sample on site;
6. Present self professionally in an oral interview with two or more faculty members;
7. Contact the Program Advisor prior to applying to Graduate Admissions.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions .

DEGREE PROGRAM REQUIREMENTS

Program of Study, Comprehensive Examination, specialist thesis/project (including oral defense)

Program of Study:	36 hours min.
Specialization:	27 hours
Required Specialization Courses	15 hours
EDA 7222, EDA 7233, EDA 7247, EDS 7130, and EDG 7667 or EDG 7692	
Specialization Electives	9 hours
taken at the 6000 or 7000 level	
Core Elective	3 hours
taken from the Department of Educational Measurement/Research	
Thesis/Project	9 hours
EDA 6971, includes written comprehensive examination and oral defense of thesis/project.	

Refer to College listing and Ed.S. Advisor for additional information. Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

EDUCATIONAL LEADERSHIP PROGRAM

Doctor of Education (Ed.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours 76-82
Program Level: Doctoral
CIP Code: 13.0401
Dept Code: LEA
Program (Major/College): EAS ED

CONTACT INFORMATION

College: Education
Department: Educational Leadership & Policy Studies

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ed.D. degree is designed to improve professional practice by enhancing the ability of professional educators to obtain, analyze, and synthesize information at an advanced level for effective education decision making.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission to the Ed. D. program is based on a holistic evaluation of the applicants' demonstrated potential to successfully complete all of the course and research requirements of the specific degree program. Success in the program requires excellent skills of scholarship in writing and research and a commitment to high quality and systematic inquiry.

The program faculty will consider each applicant in light of his or her qualifications and likelihood of success, first by reviewing the submitted materials and then through a personal interview for candidates who meet all other criteria. Applications are considered on a continuous basis throughout the year, although the offering of courses favors fall semester for initial registration.

Program Admission Requirements

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admission Requirements

Applicants to the Program must:

1. Submit an official Graduate Record Examination score taken within the last five years [verbal, quantitative, and analytical writing];
2. Hold a Master's degree from a regionally accredited institution and an earned GPA in the Master's degree of at least 3.5 on a 4.0 scale;
3. Hold a Florida Professional Educator's Certificate in Educational Leadership (k-12);
4. Submit three letters of recommendation from persons knowledgeable about the applicant's academic and professional competence;
5. Complete writing sample on site;
6. Present self professionally in an oral interview with two or more faculty members;
7. Contact the Program Advisor prior to applying to Graduate Admissions.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions.

DEGREE PROGRAM REQUIREMENTS

Program of Study, qualifying examination, dissertation proposal, oral dissertation proposal hearing, dissertation, oral dissertation defense

Program of Study: 76 hours minimum

To include:

1. **Required Concentration Courses:** 24 hours
   EDA 7222, EDA 7233, EDA 7247, EDS 7130; 9 hours electives at 7000-level or 6000-level with advanced graduate standing; 3 hour technology course at 6000-level or above.

2. **Measurement/Statistics/Research Design:** 11-16 hours
   EDF 6407, EDF 7408, and one of the following EDF 7410, EDF 7437, EDF 7484, EDF 7493, or EDF 7477 and EDF 7478

3. **Psychological and Social Foundations:** 11-12 hours
   Three courses at the 7000-level or 6000-level with advanced graduate standing, with at least one course required in each of the following areas – Philosophical/Social/Historical Foundations; Educational Psychology.

4. EDG 7667, EDG 7692

5. EDG 7980 Dissertation (24 hours)

Refer to College Listing or Ed.D. Advisor for additional information. Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

EDUCATIONAL LEADERSHIP – COLLEGE LEADERSHIP CONCENTRATION

Doctor of Education, Ed.D. Degree in the Educational Leadership Program
With a concentration in College Leadership

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	76-82
Program Level:	Masters
CIP Code:	13.0301
Dept Code:	LEA
Program (Major/College):	EAS ED
Concentration Code:	EHI

CONTACT INFORMATION

College: Education
Department:
Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Program Description
Educational Leadership (College Leadership)
The intent of the College Leadership program is to develop the competencies of educational practitioners in two and four year colleges and universities, and to obtain and synthesize knowledge for the solution of educational problems and practices. The Ed.D. program is designed for individuals who are primarily interested in the application of theory to improve practice in higher education.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

The program faculty will consider each applicant in light of his or her qualifications and likelihood of success, first by reviewing the submitted materials and then through a personal interview for candidates who meet all other criteria. Applications are considered on a continuous basis throughout the year, although the offering of courses favors fall semester for initial registration. The faculty employ a holistic approach to the admissions consideration, taking into account all of the information and balancing test sores, previous grade point averages, recommendations, professional experiences and successes, etc. However, the program faculty give preference to candidates presenting:

1. A masters degree from a regionally accredited university with 3.5 GPA on a 4.0 scale and a 3.0 for upper division undergraduate coursework in the Baccalaureate degree;
2. Strong overall GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is low, the other should be considerably higher. In some instances, GMAT, LSAT, or MCAT scores may be substituted for the GRE;
3. Demonstrated commitment to personal and professional growth and development and to the completion of the rigorous course and research demands of the program;
4. Excellent academic, analytical and communication skills.
5. A current professional vita or resume;
6. A clear and detailed statement of professional and personal goals describing the reasons that earning the doctorate is important to those goals;
7. Three letters of recommendation from former professors or supervisors who will attest to the applicant's likelihood of success in the doctoral program;
8. Present self professionally during an oral interview with program faculty;
9. Contact the program advisor prior to applying to Graduate Admissions.

In exceptional cases, students not meeting these criteria may submit additional or alternative documentation of their potential for success in doctoral level studies.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study: **76-82 hours**

Specialization Courses 12-13 hours

Higher Education Core Courses 9 hours (includes EDH 6947- Internship

Curriculum and Instruction: 3 hours

Statistics/Measurement/Research Design: 12 hours

Psychological and Social Foundations: 7-8 hours
At least one 7000 level course is required in each of the two areas, Psychological and Social Foundations. Additional coursework to be determined with a faculty advisor.

Dissertation (EDH 7980): 24 hours minimum
Refer to College listing for additional information.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
or
http://www.coedu.usf.edu/main/departments/ache/courses.html

EDUCATIONAL PROGRAM DEVELOPMENT PROGRAM

Doctor of Education (Ed.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 76-82
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): EPD ED

Concentrations available in:
Administration of Special Education (ESE)
Adult Education (EAE)
Elementary Education (EEE)
Vocational Education (EVO).

CONTACT INFORMATION

College: Education

Contact Information: www.grad.usf.edu
Refer to individual concentrations for contact information.

PROGRAM INFORMATION

Refer to individual areas of concentration for information.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Refer to each area of concentration for program admission requirements or contact department.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions.

DEGREE PROGRAM REQUIREMENTS

Refer to areas of concentration for individual requirements.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ELEMENTARY EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1202
Dept Code: EDR
Program (Major/College): AEE ED

The M.A.T. degree in Elementary Education is available for students seeking initial teacher certification.

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

The Master of Arts (MA) degree in Elementary Education with a concentration in Elementary Curriculum is replacing this degree. Please refer to the concentration in Elementary Curriculum for information.

ELEMENTARY EDUCATION-
EARLY CHILDHOOD CONCENTRATION

Master of Arts (M.A.) Degree in the Elementary Education Program
With a concentration in Early Childhood

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1202
Dept Code: EDR
Program (Major/College): AEE ED
Concentration Code: MEA

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

ELEMENTARY EDUCATION – ELEMENTARY CURRICULUM CONCENTRATION

Master of Arts (M.A.) Degree in the Elementary Education Program With a concentration in Elementary Curriculum

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1202
Dept Code: EDR
Program (Major/College): AEE ED
Concentration Code: MEL

Concentrations available in most curricular areas.

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description (Plan I Option)
A program of study designed for those with a bachelor's degree and certification in the discipline who desire to increase their competence in elementary education. This program is not designed for those seeking initial certification.

A Plan III non-certification option may be available. Contact the program for specific requirements.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent

Requirements for applicants include:

1. Minimum upper division GPA of 3.0 on a 4.0 scale in a baccalaureate degree or have earned a graduate degree from a regionally accredited institution.
2. GRE is required for applicants with an upper-division baccalaureate GPA below 3.0 on a 4.0 scale. Contact department for details.
3. Exceptions to minimum requirements will be considered for National Board Certification and an outstanding professional record.
4. Initial certification in Elementary Education is required for admission to the M.A. (Plan I) in Elementary Education.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

A minimum of 33 hours including 6 hours of process core, 6 hours of program core, and 21 hours of emphasis area courses. Please contact program coordinator for more information.

Program of Study: **33 hours**

Program Core: 6 hours
EDF 6935 LAE 6316 or LAE 6415

Process Core: 6 hours
EDF 6481 EDF 6215 or EDF 6120
Specialization/Concentration 3 hours
Elective
Content Specialization 18 hours

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

ELEMENTARY EDUCATION-
LANGUAGE ARTS CONCENTRATION

Master of Arts (M.A.) Degree in the Elementary Education Program
With a concentration in Language Arts

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1202
Dept Code: EDR
Program (Major/College): AEE ED
Concentration Code: MLG

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

The Master of Arts (MA) degree in Elementary Education with a concentration in Elementary Curriculum is replacing this degree. Please refer to the concentration in Elementary Curriculum for information.

ELEMENTARY EDUCATION PROGRAM

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 53
Program Level: Masters
CIP Code: 13.1202
Dept Code: EDR
Program (Major/College): TEE ED

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
This program is designed for students who have a non-elementary bachelor's degree and who wish to become elementary teachers for grades K-6. Students earn an ESOL endorsement at the same time as a Master's degree in Elementary Education.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent

Requirements for applicants include:

1. Minimum upper division GPA of 3.0 on a 4.0 scale in the baccalaureate degree.
2. GRE is required for applicants with and upper-division baccalaureate GPA below 3.0 on a 4.0 scale. Contact department for details.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts.

For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

A minimum of 53 hours of coursework (including internships). Contact program for specific information, and www.coedu.usf.edu/sas for internship and State of Florida testing requirements. Florida State Department of Education program approval standards, and accreditation criteria.

Program of Study: 53 hours

Program Core: 9 hours
LAE 6415 RED 6514 EDE 6326

Process Core: 6 hours
EDE 6211 or EDF 6120 EDF 4430

Specialization/Concentration: 11 hours
EDE 6946 EDG 6947 EDE 6458 I and
EDE 6458 II

Content Specialization: 27 hours
FLE 5430 FLE 5431 FLE 5432
MAE 6117 SCE 4310 SSE 6617
RED 6544 RED 6545 EDE 6502

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ELEMENTARY EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Elementary Education

DEGREE INFORMATION

Program Admission Deadlines:
Not accepting applications.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CEE

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

The Master of Arts (MA) degree in Elementary Education with a concentration in Elementary Curriculum is replacing this degree. Please refer to the concentration in Elementary Curriculum for information.

ELEMENTARY EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program With a concentration in Elementary Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
Prepares in-school leaders with expertise in instruction and program development in a variety of educational settings.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for applicants include:

1. GRE Required
2. Minimum GPA of 3.00 / 3.50 M
3. Proof of educational or professional experience
4. Proof of initial certification
5. Letters of recommendation
6. Interview
7. Concept Paper or goal statement

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions..

DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 36 hours beyond the Master's degree, including coursework, written comprehensive examination, and a project. The Ed.S. program is individually planned with an advisor to include coursework in areas such as reading, elementary education, literacy and research.

Minimum Requirements:	**36 hours**
Specialization Coursework	27 hours
Thesis	9 hours

Comprehensive Exam Required

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ELEMENTARY EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Elementary Education

DEGREE INFORMATION		CONTACT INFORMATION	
Program Admission Deadlines:	Not accepting applications	**College:**	Education
		Department:	Childhood Education
		Contact Information:	www.grad.usf.edu
Minimum Total Hours:	75-81		
Program Level:	Doctoral		
CIP Code:	13.0301		
Dept Code:	CNI		
Program (Major/College):	CUR ED		
Concentration Code:	DEE		

Please refer to the Doctor of Philosophy (Ph.D.) Degree in Curriculum and Instruction with a concentration in Reading, or contact the program for information.

ELEMENTARY EDUCATION CONCENTRATION

Doctor of Education (Ed.D.) in Educational Program Development
With a concentration in Elementary Education

DEGREE INFORMATION

Program Admission Deadlines: Not accepting applications.

Minimum Total Hours: 72-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): EPD ED
Concentration Code: EEE

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu

Please refer to the Doctor of Philosophy (Ph.D.) Degree in Curriculum and Instruction with a concentration in Reading, or contact the program for information.

ENGLISH EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1305
Dept Code: EDI
Program (Major/College): AEN EJ

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
A program of study designed for those with a bachelor's degree in the field of English and/or a related appropriate initial certification who desire to increase their competence in a subject concentration.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools. National Council of Teachers of English (NCTE) for the MA Plan II.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the baccalaureate degree
2. Proof of educational or professional experience
3. Proof of initial certification (MA Pl 1)
4. Evidence of successful teaching experience.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).
See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts.
For more information, please visit
http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Plan I - Program of Study 33 hours min
Process Core: 3 hours min
Current Trends in Teaching Specialization: 3 hours

Concentration: 18 hours minimum.
Content course selections are based on the prior background of the student and the current certification requirements; please see an advisor.

Electives: 9 hours minimim (may be taken from the following areas: English, English Education, or Process Core)

Comprehensive Examination: Required in both English content and English Education.

Plan II - Inactive
Plan III programs are also available for those who do not hold teaching certification but have a baccalaureate degree in English or a substantial number of hours in English content. For information on Plan III, please consult the program coordinator.

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/English/Engma_courswk.htm

ENGLISH EDUCATION PROGRAM

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 41
Program Level: Masters
CIP Code: 13.1305
Dept Code: EDI
Program (Major/College): TEC ED

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

A program of study designed to prepare students for initial certification in English education.

Program Description
The M.A.T. in English Education is designed to include initial certification to teach English, grades 6-12 with ESOL Endorsement while working towards a masters degree. It is planed for graduates of B.A. Liberal Arts English programs or for graduates of other programs who have completed the following within their programs of study: grammer/language development, adolescent literature, American literature, British literature, female/minority literature, expostory writing, and creative writing.

All students must make an appointment with an advisor to ensure that all certification requirements either within the degree itself or in addition to it have been met, and to develop a Graduate Planned Program.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools. Includes the state of Florida Accomplished Practices as well as NCATE/NCTE accreditation standards.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division work in the Baccalaureate degree
2. GKT
3. Complete specified coursework for content knowledge in English

Application Materials

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).
See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts.
For more information, please visit
http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

For Master of Arts in Teaching Degree (M.A.T)

Program of Study	41 hours min
English Education methods	14 hours
Current Trends in Teaching Specialization	3 hours
ESOL	9 hours
Core process	9 hours
Internship	6 hours

Comprehensive Examination in English Education.

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/English/Engma_courswk.htm

ENGLISH EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in English Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	33
Program Level:	Masters
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	CEN

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program designed for fully certified teachers of English who wish to improve their skills in teaching middle school and/or senior high school English language arts. The program is developed in consultation with an advisor and tailored to the needs of each individual.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the Baccalaureate degree
2. Proof of educational or professional experience
3. Evidence of successful professional experiences supporting the fit between professional background and program goals.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study 33 hours min

Process Core 12 hours
EDF 6432 EDF 6481
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
Curriculum and Instruction (EDG 6627) 3 hours

English Education
Specialization/Concentration 12 hours
in the area of emphasis, to include courses in content and/or the teaching of this content

Electives 6 hours

Comprehensive Examination - In English Education

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/English/Engma_courswk.htm

ENGLISH EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in English Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DCE

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The concentration which replaces this is entitled "Teaching and Learning in the Content Area: General Education." Refer to "Teaching and Learning in the Content Area: General Education" in this Graduate Catalog for specific information.

This program is highly individualized. Candidates' programs are planned (with approval by a faculty committee) based upon previous experience and future goals.

FOREIGN LANGUAGE EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15*
Spring:	October 15*
Summer:	March 1*

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 13.1306
Dept Code: EDI
Program (Major/College): FLE EJ

Concentrations available in:
Foreign Language Ed., French (AFF)
Foreign Language Ed., German (AFG)
Foreign Language Ed., Spanish (AFS)

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Plan II ***Currently no students are being admitted to this program.**

PROGRAM INFORMATION

Program Description
Prepares educators for teaching foreign language in a K-12 environment.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: German, Spanish, French, Latin, Foreign Language Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

The admissions committee will consider each applicant in light of his or her qualifications and likelihood of success. The faculty employs a holistic approach to the admissions consideration, taking into account all the information and balancing previous grade point averages, test scores, previous success in graduate coursework, recommendations, and professional experiences as well as fit of the program to the applicants' personal and professional goals. In order to be admitted to the graduate program in Foreign Language Education, students must present the following:

Requirements for all applicants include:

1. Minimum GPA of 3.00 in upper division coursework in the Baccalaureate degree
2. Proof of relevant educational or professional experience
3. Coursework is allowed in lieu of GPA or GRE requirement (Plan I)
4. A current resume
5. A clear and detailed statement of professional and personal goals describing the reasons that earning the degree is important to those goals.
6. Two letters of recommendation, preferably at least one from a current or former professor (or school principal if working in a school environment) who will attest to the applicant's likelihood of success in a graduate program.
7. Strong GRE scores with no more than one sub-score below the 33rd percentile. If a score in one area is very low, the other should be considerably higher.

8. Evidence of 30 credit hours in foreign language coursework or evidence of native language proficiency.

9. An appropriate level of proficiency in foreign language demonstrated by an interview with the program faculty (in person or by telephone), by presenting an ACTFL OPI score of intermediate high or higher, or by any equivalent measure as approved by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

For M.A. - Plan I
Program of Study 36 hours

Professional Education 12 hours

EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
EDF 6481 Foundations of Educational Research
EDF 6432 Foundations of Measurement
FLE 6665 Current Trends 3 hours
FLE 5291 Applications of Technology to FLE (except if taken as part of the B.A.) 3 hours

Specialization 18 hours
(at the 5000 and 6000 level)

Comprehensive Examination: Required in both Foreign Language and Foreign Language Education.

Plan II – inactive.

A Plan III, non-certification option is also available for those who do not desire teacher certification. For information on Plan III, contact the program coordinator.

COURSES

See http://www.coedu.usf.edu/main/departments/seced/ForLang/fle_ma.html

FOREIGN LANGUAGE EDUCATION PROGRAM
French Concentration

Master of Arts (M.A.) Degree in the Foreign Language Education Program With a concentration in French

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15*
Spring: October 15*
Summer: March 1*

Minimum Total Hours: 30
Program Level: Masters

CIP Code: 13.1306
Dept Code: EDI
Program (Major/College): FLE EJ
Concentration Code: AFF

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Plan II. *Currently no students are being admitted to this program.

PROGRAM INFORMATION

Program Description
Prepares educators for teaching French in a K-12 environment.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

The admissions committee will consider each applicant in light of his or her qualifications and likelihood of success. The faculty employs a holistic approach to the admissions consideration, taking into account all the information and balancing previous grade point averages, test scores, previous success in graduate coursework, recommendations, and professional experiences as well as fit of the program to the applicants' personal and professional goals. In order to be admitted to the graduate program in Foreign Language Education, students must present the following:

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the Baccalaureate degree
2. Proof of relevant educational or professional experience
3. Coursework is allowed in lieu of GPA or GRE requirement (Plan I)
4. A current resume
5. A clear and detailed statement of professional and personal goals describing the reasons that earning the degree is important to those goals.
6. Two letters of recommendation, preferably at least one from a current or former professor (or school principal if working in a school environment) who will attest to the applicant's likelihood of success in a graduate program.
7. Strong GRE scores with no more than one sub-score below the 33rd percentile. If a score in one area is very low, the other should be considerably higher.
8. Evidence of 30 credit hours in foreign language coursework or evidence of native language proficiency.
9. An appropriate level of proficiency in foreign language demonstrated by an interview with the program faculty (in

person or by telephone), by presenting an ACTFL OPI score of intermediate high or higher, or by any equivalent measure as approved by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

For M.A. - Plan I
Program of Study 36 hours

Professional Education 12 hours

EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
EDF 6481 Foundations of Educational Research
EDF 6432 Foundations of Measurement
FLE 6665 Current Trends 3 hours
FLE 5291 Applications of Technology to FLE (except if taken as part of the B.A.) 3 hours

Specialization 18 hours
(at the 5000 and 6000 level)

Comprehensive Examination: Required in both Foreign Language and Foreign Language Education.

Plan II – inactive.

A Plan III, non-certification option is also available for those who do not desire teacher certification. For information on Plan III, contact the program coordinator.

COURSES

See www.coedu.usf.edu/main/departments/seced/ForLang/fle_ma.html

FOREIGN LANGUAGE EDUCATION PROGRAM
GERMAN CONCENTRATION

Master of Arts (M.A.) Degree in the Foreign Language Education Program With a concentration in German

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15*
Spring:	October 15*
Summer:	March 1*

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 13.1306
Dept Code: EDI
Program (Major/College): FLE EJ
Concentration Code: AFG

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Plan II. *Currently no students are being admitted to this program.

PROGRAM INFORMATION

Program Description
Prepares educators for teaching German in a K-12 environment.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

The admissions committee will consider each applicant in light of his or her qualifications and likelihood of success. The faculty employs a holistic approach to the admissions consideration, taking into account all the information and balancing previous grade point averages, test scores, previous success in graduate coursework, recommendations, and professional experiences as well as fit of the program to the applicants' personal and professional goals. In order to be admitted to the graduate program in Foreign Language Education, students must present the following:

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the Baccalaureate degree
2. Proof of relevant educational or professional experience
3. Coursework is allowed in lieu of GPA or GRE requirement (Plan I)
4. A current resume
5. A clear and detailed statement of professional and personal goals describing the reasons that earning the degree is important to those goals.
6. Two letters of recommendation, preferably at least one from a current or former professor (or school principal if working in a school environment) who will attest to the applicant's likelihood of success in a graduate program.
7. Strong GRE scores with no more than one sub-score below the 33rd percentile. If a score in one area is very low, the other should be considerably higher.
8. Evidence of 30 credit hours in foreign language coursework or evidence of native language proficiency.
9. An appropriate level of proficiency in foreign language demonstrated by an interview with the program faculty (in person or by telephone), by presenting an

ACTFL OPI score of intermediate high or higher, or by any equivalent measure as approved by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

For M.A. - Plan I
Program of Study 36 hours

Professional Education 12 hours

EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
EDF 6481 Foundations of Educational Research
EDF 6432 Foundations of Measurement
FLE 6665 Current Trends 3 hours
FLE 5291 Applications of Technology to FLE (except if taken as part of the B.A.) 3 hours

Specialization 18 hours
(at the 5000 and 6000 level)

Comprehensive Examination: Required in both Foreign Language and Foreign Language Education.

Plan II – inactive.

A Plan III, non-certification option is also available for those who do not desire teacher certification. For information on Plan III, contact the program coordinator.

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/ForLang/fle_ma.html

FOREIGN LANGUAGE EDUCATION PROGRAM
SPANISH CONCENTRATION

Master of Arts (M.A.) Degree in the Foreign Language Education Program With a concentration in Spanish

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15*
Spring:	October 15*
Summer:	March 1*

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 13.1306
Dept Code: EDI
Program (Major/College): FLE EJ
Concentration Code: AFS

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Plan II *Currently no students are being admitted to this program.

PROGRAM INFORMATION

Program Description
Prepares educators for teaching Spanish in a K-12 environment.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

The admissions committee will consider each applicant in light of his or her qualifications and likelihood of success. The faculty employs a holistic approach to the admissions consideration, taking into account all the information and balancing previous grade point averages, test scores, previous success in graduate coursework, recommendations, and professional experiences as well as fit of the program to the applicants' personal and professional goals. In order to be admitted to the graduate program in Foreign Language Education, students must present the following:
Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the Baccalaureate degree
2. Proof of relevant educational or professional experience
3. Coursework is allowed in lieu of GPA or GRE requirement (Plan I)
4. A current resume
5. A clear and detailed statement of professional and personal goals describing the reasons that earning the degree is important to those goals.
6. Two letters of recommendation, preferably at least one from a current or former professor (or school principal if working in a school environment) who will attest to the applicant's likelihood of success in a graduate program.
7. Strong GRE scores with no more than one sub-score below the 33rd percentile. If a score in one area is very low, the other should be considerably higher.
8. Evidence of 30 credit hours in foreign language coursework or evidence of native language proficiency.
9. An appropriate level of proficiency in foreign language demonstrated by an interview with the program faculty (in person or by telephone), by presenting an ACTFL OPI score of intermediate high or

higher, or by any equivalent measure as approved by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

For M.A. - Plan I
Program of Study 36 hours

Professional Education 12 hours

EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
EDF 6481 Foundations of Educational Research
EDF 6432 Foundations of Measurement
FLE 6665 Current Trends 3 hours
FLE 5291 Applications of Technology to FLE (except if taken as part of the B.A.) 3 hours

Specialization 18 hours
(at the 5000 and 6000 level)

Comprehensive Examination: Required in both Foreign Language and Foreign Language Education.

Plan II – inactive.

A Plan III, non-certification option is also available for those who do not desire teacher certification. For information on Plan III, contact the program coordinator.

COURSES

See http://www.coedu.usf.edu/main/departments/seced/ForLang/fle_ma.html

FOREIGN LANGUAGE EDUCATION PROGRAM

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 42
Program Level: Masters
CIP Code: 13.1306
Dept Code: EDI
Program (Major/College): TFL ED

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.A.T. degree is designed for individuals with a Bachelor's degree in a field other than education who wish to become certified teachers in foreign language at the middle or high school level. Students can earn ESOL endorsement at the same time as the Master's degree. The M.A.T. is an accelerated degree.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission Program Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the baccalaureate degree
2. CLAST or GKT
3. 2 Letters of recommendation (1 personal and 1 professional) stating the ability of the student to complete graduate studies.
4. Interview
5. Concept Paper or goal statement
6. Evidence of 30 credit hours in foreign language coursework or evidence of native language proficiency.
7. An appropriate level of proficiency in the foreign language demonstrated by an interview with the program faculty (in person or by telephone, by presenting an ACTFL OPI score of intermediate high or higher, or by any equivalent measure as approved by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).
See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

A program of study designed for the holder of a non-education baccalaureate degree who is functionally competent and proficient in the target language. This program meets initial certification requirements (K-12) as well as full ESOL endorsement. The program requires 42 semester hours, minimum.

Professional Foreign Language Education Courses - 15 hours

Current Trends in Teaching Specialization – 3 hrs.

ESOL – 9 hrs.

Foreign Language Professional Core – 9 hrs.

Internship - 6 hours
(The internship is planned observation and teaching, supervised by a member of the University faculty and a school staff member.)

Comprehensive Examination required in Foreign Language Education.

Please refer to www.coedu.usf.edu/sas for specific internship entrance and State of Florida testing requirements.

COURSES

See http://www.coedu.usf.edu/main/departments/seced/ForLang/fle_ma.html

FOREIGN LANGUAGE EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Foreign Language Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	33
Program Level:	Masters
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	CFE

Offered with emphases in French, German, or Spanish

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

Program Description
This program has a greater emphasis on the field of education and allows students to select courses in their specialization either inside the College of Education or from other colleges. Students who have completed a bachelor's degree in foreign language education or another education field are eligible to enroll in this M.Ed. degree program. Minimally, students must provide proof of two years of relevant educational experience as judged by the program faculty. Usually, students in this degree program are State of Florida certified teachers.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include a minimum GPA of 3.0 in upper division coursework in the Baccalaureate degree.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions.

DEGREE PROGRAM REQUIREMENTS

The M.Ed. degree requires a minimum of 33 semester hours with 60 percent or more of the courses at the 6000 level.

Professional Education Courses (9 hours) in educational psychology, foundations, research methods, etc.)

Specialization content (18 hours) are taken at the graduate level in the area of emphasis, to include courses in content and/or the teaching of this content, one of which must be FLE 6665: Current Trends in Foreign Language Education.

Electives (6 hours)

Comprehensive Examination
A comprehensive examination must be taken in the College of Education at the completion of the program

Check with the program coordinator for specific requirements.

COURSES See http://coedu.usf.edu/main/departments/seced/ForLang/fle_ma.html

HIGHER EDUCATION, ADMINISTRATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program With a concentration in Higher Education, Administration

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DEGREE INFORMATION

Program Admission Deadlines:	Closed for new admissions
Minimum Total Hours:	36
Program Level:	Specialist
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	SHA

CONTACT INFORMATION

College:	Education
Department:	Adult, Career & Higher Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

Currently, students are not being admitted to this program.

HIGHER EDUCATION, COMMUNITY COLLEGE TEACHING CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program With a concentration in Higher Education, Community College Teaching

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions
Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SCT

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education
Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

HIGHER EDUCATION, ADMINISTRATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Higher Education, Administration

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	81-84
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DHA

CONTACT INFORMATION

College:	Education
Department:	Adult, Career & Higher Education
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The Higher Education Administration program is a research degree that prepares individuals interested in teaching, research, and policy positions in both community colleges and universities.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Admission to either of the Ph.D. programs in Higher Education is based on a holistic evaluation of the applicant's demonstrated potential to successfully complete all of the course and research requirements of the specific degree programs

The program faculty will consider each applicant in light of his or her qualifications and likelihood of success, first by reviewing the submitted materials and then through a personal interview for candidates who meet all other criteria. Applications are considered on a continuous basis throughout the year, although the offering of courses favors fall semester for initial registration. The faculty employ a holistic approach to the admissions consideration, taking into account all of the information and balancing test scores, previous grade point averages, recommendations, professional experiences and successes, etc. However, the program faculty give preference to candidates presenting:

1. A masters degree from a regionally accredited university with 3.5 GPA on a 4.0 scale at the Master's level and a 3.0 for upper division coursework completed in the Baccalaureate degree.

2. Strong overall GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is low the other should be considerably higher; In Some instances, GMAT, LSAT or MCAT scores may be substituted for the GRE.

3. Significant successful professional experiences related to the academic program and professional goals of the applicant;

4. Demonstrated commitment to personal and professional growth and development and to the completion of the rigorous course and research demands of the program;

5. Excellent academic, analytical and communication skills.

6. A current professional vita or resume:

7. A clear and detailed statement of professional and personal goals describing the reasons that earning the doctorate is important to those goals;

8. Three letters of recommendation from former professors or supervisors who will attest to the applicant's likelihood of success in the doctoral program:

9. Official transcripts from previous educational institutions;

In exceptional cases, students not meeting these criteria may submit additional or alternative documentation of their potential for success in doctoral level studies.

Admission Program Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Students in the Ph.D. program in the College of Education must complete a residency requirement during which time the student must enroll for at least nine semester hours during any two semesters within a 12-month time frame. During the semesters of residency, the student should not be employed more than 50% of the time.

Program of Study: 81-84 credit hours minimum

Core (3 courses)	9 hrs

Higher Education Administration Concentration (6 Courses) 18-19 hrs
Cognate (3 or 4 courses) 12 hrs

Statistics/Measurement/Research Design: 12 credit hours

Psychological and Social Foundations (2 courses) 6-8 credit hours

Dissertation (EDH 7980): 24 credit hours
Refer to College listing for additional information.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

http://www.coedu.usf.edu/main/departments/ache/courses.html

HIGHER EDUCATION, COMMUNITY COLLEGE TEACHING CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program With a concentration in Higher Education, Community College Teaching

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DCC

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The Higher Education Administration program is a research degree that prepares individuals interested in teaching, research, and policy positions in both community colleges and universities.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission Program Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

The program faculty give preference to candidates presenting:

1. A masters degree from a regionally accredited university with 3.5 GPA on a 4.0 scale at the Master's level and a 3.0 upper division coursework completed in the Baccalaureate degree.

2. Strong overall GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is low the other should be considerably higher. In some instances, GMAT, LSAT or MCAT scores may be substituted for the GRE.

3. Demonstrated commitment to personal and professional growth and development and to the completion of the rigorous course and research demands of the program;

4. Excellent academic, analytical and communication skills;

5. A cureent professional vita or resume;

6. A clear and detailed statement of professional and personal goals describing the reasons that earning the doctorate is important to those goals;

7. three letters of recommendation from former professors or supervisors who will attest to the applicant's likelihood of success in the doctoral program:

In exceptional cases, students not meeting these criteria may submit additional or alternative documentation of their potential for success in doctoral level studies.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts.

For more information, please visit
http://web.usf.edu/iac/admissions

The program faculty will consider each applicant in light of his or her qualifications and likelihood of success, first by reviewing the submitted materials and then through a personal interview for candidates who meet all other criteria. Applications are considered on a rolling basis throughout the year, although the offering of courses favors fall semester for initial registration. The faculty employ a holistic approach to the admissions consideration, takining into account all of the information and balancing test scores, previous grade point averages, recommendations, professional experiences and successes, etc

DEGREE PROGRAM REQUIREMENTS

Students in the Ph.D. program in the College of Education must complete a residency requirement during which time the student must enroll for at least nine semester hours during any two semesters within a 12-month time frame. During the semesters of residency, the student should not be employed more than 50% of the time.

Program of Study: 81 hours minimum
Core (3 courses) 9 hrs
Concentration (6 Courses) 18 hours
Cognate Area: 12 hours
Statistics/Measurement/Research Design: 12 credit hours
Psychological and Social Foundations (2 courses) 6-8 credit hours
Dissertation (EDH 7980): 24 credit hours
Refer to College listing for additional information.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

http://www.coedu.usf.edu/main/departments/ache/courses.html

HUMAN RESOURCE DEVELOPMENT CONCENTRATION

Master of Arts (M.A.) Degree in the Adult Education Program
With a concentration in Human Resource Development

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1201
Dept Code: LEA
Program (Major/College): AAE ED
Concentration Code: HRD

CONTACT INFORMATION

College: Education
Department: Adult, Career & Higher Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Adult Education program provides professional development opportunities to individuals concerned with the learning of adults. It includes courses and experiences for persons employed in or intending to enter adult education as a field of study. This degree is intended to help individuals work with adult learners in a wide variety of school and non-school settings. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. This Adult Education degree is a Plan III, non-certification option.

A concentration in Human Resource Development (HRD) is available to currently enrolled students in the Master of Arts Adult Education degree. The HRD concentration specializes in Business and Industry learning and organizational development.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) and College requirements as well as those listed below.

Program Admission Requirements
Admission to the M.A. program in Adult Education is based on a holistic evaluation of the applicants' demonstrated potential to complete successfully all of the course and research requirements specific to the degree. Success in the program requires excellent presentation and high quality writing skills, scholarship, and a commitment to systematic inquiry.

The admissions committee will consider each applicant in light of his or her qualifications and likelihood of success. The faculty takes into account all of the information, and balances previous grade point averages, test scores, previous success in graduate course work, recommendations, and professional goals.

Admission Process

For consideration for admission, students must submit:

1. A clear and detailed statement of professional and personal goals describing the reasons that earning the degree is important o those goals;

2. Two letters of recommendation, preferably at least one from a current or former professor who will attest to the applicant's likelihood of success in a graduate program;

3. A grade point average while classified as an upper division tudent in a baccalaureate degree at a regionally accredited university of 3.0 on a 4.0 scale; or

4. A Master's degree in a related field from a regoinally accredited institution with an overall GPA of at least 3.5 on a 4.0 scale; or

5. Strong GRE scores having no more than one sub-test score below the 33rd percentile. If a score in one area is very low, the other should be considerably higher. In some instances, GMAT, LSAT or MCAT scores may be substituted for the GRE.

6. If the upper division undergraduate GPA is less than 3.0, the applicant must also have GRE Scores. In the case of a GPA below 3.0, the faculty expects to see high GRE scores, usually exceeding 500 on both the verbal and quantitative subtests. In the event that an applicant does not meet the 3.0 GPA, or the GRE expectations, the applicant must complete at least 6 graduate semester hours as a non-degree seeking student in coursework taught by an adult education program faculty member before consideration for admission;

7. have proof of educational or professional experience;

8. obtain favorable recommendations for admission at the department and college levels and,

9. satisfy any additional academic requirements or prerequisites identified by the program.

In exceptional cases, students not meeting the above criteria may be considered for admisson by successfully completing at least 6 graduate semester hours of coursework taught by an adult education program faculty member.

Students may additionally submit documentation of their potential for success with inclusion of the following;

1. Significant successful profesional experiences related to the academic program and professional goals of the applicant;

2. Demonstrated commitment to personal and professoial growth and development and to the completion of the coursework and project demands of the program;

3. Excellent communication skills.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Contact program for information.

Program of Study (non-thesis option) 36 hours

A minimum of 36 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are inappropriate for the master's degree program. This program is available as a Plan III non-certification option.

Program of Study (non-thesis option) 36 hours

Process Core 6 hours:
EDF 6481 or EDF 6432 and one approved Psychological or Social Foundations course.

General Adult Education (ADE 6080 or approved alternative) 4 hours

Concentration Requirements:
For a concentration in Human Resource Development, the following courses are required to be taken in the 36 hours of non-thesis option of the M.A. degree:

ADE 6370: Trainers in Business and Industry
ADE 6360: Methods of Teaching in Adult Education
ADE 6161: Curriculum Construction in Adult Education
ADE 6160: Program Management in Adult Education

Comprehensive Examiniation Required

Other courses offered throughout the University may be selected as part of the remaining hours needed for degree completion based upon the student's selection and program advisor's approval. At least one course must be taken outside the program area.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

INDUSTRIAL ARTS - TECHNOLOGY EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Industrial Arts-Technology Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CIT

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

INSTRUCTIONAL TECHNOLOGY CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Instructional Technology

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	37-38
Program Level:	Masters
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	CCO

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

Program Description

The M.Ed. in Instructional Technology is intended for students interested in working as instructional designers/developers in industry or academic environments.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission Program Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

In addition the applicant must:

Have an undergraduate grade point average of "B" (3.0 on a 4.0 scale) average or higher as an upper division in the Baccalaureate degree, or the international equivalent.

OR

Have successfully completed a graduate certificate in instructional technology with a grade point average of 3.5 or better and an undergraduate grade point average of at least 2.75 on a 4.0 scale as an upper division undergraduate student, or the international equivalent.

OR

Have completed a prior graduate degree from a regionally accredited institution, or international equivalent with a grade point average of 3.5 or higher.

OR

Submit official GRE scores with the following minimums: scores V:430 , Q:570, and AW:4.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions/

DEGREE PROGRAM REQUIREMENTS

The M.Ed. in Instructional Technology is 37-38 semester hours in length and consists of 12 courses; 7 courses in the major area of Instructional Technology and 5 courses in Educational Foundations.

COURSES
See
http://www.coedu.usf.edu/it/curriculum/med/

INSTRUCTIONAL TECHNOLOGY CONCENTRATION

Education Specialist (Ed. S.) Degree in the Curriculum and Instruction Program
With a concentration in Instructional Technology

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Specialist
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	SIT

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

This program is designed to prepare students for leadership in technology related positions. Courses include an array of topics including instructional design, distance learning, authoring, instructional graphics, and project management.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Program may have additional admission requirements. Check with the program coordinator before applying.

Applicants should:

1. Meet all general requirements for the College of Education and the University Graduate Admissions Office.
2. Hold a Master's degree from a regionally accredited institution of higher education.
3. Provide two favorable academic and professional recommendations (submitted to the program coordinator)

In addition the applicant must:

Have successfully completed a graduate certificate in instructional technology with a grade point average of 3.5 or better and an undergraduate grade point average of at least 3.0 on a 4.0 scale as an upper division undergraduate student, or the international equivalent.

OR

Have completed a prior graduate degree from a regionally accredited institution, or international equivalent with a grade point average of 3.5 or higher.

OR

Submit official GRE with the following minimums: V:430, Q:570, and AW:4.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

The Ed.S. in Curriculum and Instruction with a concentration in Instructional Technology is 36 semester

hours in length. Entering students must hold a Master's degree from a regionally accredited institution of higher education. See http://www.coedu.usf.edu/IT for more details.

Specialization Coursework	27 hours
Thesis	9 hours

COURSES
See http://www.coedu.usf.edu/IT/curriculum/eds/

INSTRUCTIONAL TECHNOLOGY CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Instructional Technology

DEGREE INFORMATION

Program Admission Deadlines*:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DIT

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

Program Description
Instructional Technology is the theory and practice of design, development, utilization, management and evaluation processes and resources for learning." (Seels&Richey, 1994, p.9). The USF Ph.D. in Instructional Technology is designed to prepare scholars for leadership roles in colleges, universities, corporations, the military, and other venues where research, development, and implementation of technology-based instructional methods and materials take place.

Seels, B. Richey, R. (1994). *Instructional Technology: The definition and domains of the field.* Washington DC: Association for Educational Communications & Technology (AECT).

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: See http://www.coedu.usf.edu/it/

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

IT Program Deadlines

Admissions are made for the fall and spring semesters only. The selection process is competitive.

FALL: international applicants and domestic applicants seeking financial support must apply by the international admissions deadline of January 2nd. Domestic applicants who do not seek financial support must apply by the general USF domestic application deadline of March 15th.

SPRING: Applicants seeking financial support should not apply for spring admission. All other applicants must apply by the general USF application deadline.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

In order to be admitted to the program, students must have the following minimum qualifications: (full details at http://www.coedu.usf.edu/it/PhD/phd.html)
Meet all general requirements for the College of Education.

1. A Master's degree from a regionally accredited institution of higher education (or international equivalent).
2. An undergraduate grade point average of 3.0 on a 4.0 scale in upper division level coursework in the Baccalaureate degree or a GPA of 3.5 at the Master's level.
3. Three favorable academic and professional recommendations (submitted to the program coordinator, or the Coordinator of Graduate Studies for the department; and,
4. Favorable recommendation to the Graduate School by the Department of Secondary Education.

In addition, all applicants must meet the following IT program-specific requirements:

1. Hold a Master's degree in a field related to IT
2. Submit strong, Graduate Record Examination Verbal, Quantitative, & Analytical Writing sub-scores. (Means among current active students are greater than V:550, Q:600, & AW;4.5)
3. Provide an appropriate written statement of Personal and Professional Goals
4. Provide a Curriculum Vita (CV) that documents professional experiences related to teaching and learning
5. Demonstrate personal and ready access to sophisticated computing equipment
6. Demonstrate substantial expertise in areas of Instructional Technology (see program website).

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

See http://www.coedu.usf.edu/it/curriculum/phD/

COURSES

See http://www.coedu.usf.edu/it/curriculum/phd/

INTERDISCIPLINARY EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Interdisciplinary Education

DEGREE INFORMATION

Program Admission Deadlines:
Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CIE

CONTACT INFORMATION

College: Education
Department: Interdisciplinary

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

INTERDISCIPLINARY EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program
With a concentration in Interdisciplinary Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Specialist
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	SIE

CONTACT INFORMATION

College:	Education
Department:	Interdisciplinary
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

Program Description
The purpose of the Interdisciplinary track is to provide opportunities for those students who have educational backgrounds and interests that span a variety of disciplines that may include work outside as well as inside the College of Education. Students who have the ability and desire to integrate study and research among several departments/programs are encouraged to apply to the Interdisciplinary track.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: consult program coordinator

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admission Requirements

1. Satisfy the general College and university admission requirements as specified for the Ed. S. Degree in the current USF graduate catalog.

It is expected that applicants will have:

- Taken the GRE and have the following scores: Verbal, 500; Quantitative, 600 and Analytical 4.5.
- An earned master's degree from a regionally accredited institution of higher education or its international equivalent.
- A grade point average (GPA) of at least 3.5 for the master's degree.
- Three letters of recommendation

Copies of transcripts and the record of GRE scores should be presented to the Interdisciplinary Program Coordinator before proceeding to meet the other requirements. The recommendation letters should be sent to the Program Coordinator

2. Articulate in a clearly written statement the scope and rationale for the proposed program of study and research.
3. Ed. S. students need to identify a fully credentialed College faculty member who is willing to serve as major professor.
4. In consultation with the major professor, form an Ed. S. Committee in accordance with the College policies stated in the College's **Graduate Handbook: Policies and Procedures**.
5. With the advice and approval of the Ed.S. Committee, submit a Planned Program of Study to the Interdisciplinary Program Coordinator.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Consult with the program coordinator prior to applying.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

INTERDISCIPLINARY EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Interdisciplinary Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DIE

CONTACT INFORMATION

College:	Education
Department:	Interdisciplinary
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The purpose of the Interdisciplinary track in the Ph.D. degree is to provide opportunities for those students who have educational backgrounds and interests that span a variety of disciplines that may include work outside as well as inside the College of Education. Students who have the ability and desire to integrate study and research among several departments/programs are encouraged to apply to the Interdisciplinary track.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: consult program coordinator

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admission Requirements

1. Satisfy the general College and university admission requirements as specified for the Ph.D. Degree in the current USF graduate catalog.

   It is expected that applicants will have:

   - taken the GRE and have the following scores: Verbal, 500; Quantitative, 600 and Analytical 4.5.
   - An earned master's degree from a regionally accredited institution of higher education or its international equivalent.
   - A grade point average (GPA) of at least 3.5 for the master's degree.
   - Three letters of recommendation

   Copies of transcripts and record of GRE scores should be presented to the Interdisciplinary Program Coordinator before proceeding to meet the other requirements. The recommendation letters should be sent to the Program Coordinator

2. Articulate in a clearly written statement the scope and rationale for the proposed program of study and research.
3. Ph.D. students need to identify a fully credentialed College faculty member who is willing to serve as major professor.
4. In consultation with the major professor, form a Doctoral Committee in accordance with the College policies stated in the College's **Graduate Handbook: Policies and Procedures**.
5. With the advice and approval of the Doctoral Committee, submit a Planned Program of Study to the Interdisciplinary Program Coordinator.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Consult with the program coordinator prior to applying.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

INTERDISCIPLINARY EDUCATION, SECOND LANGUAGE ACQUISITION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Interdisciplinary Education, Second Language Acquisition

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DSL

Also see: Second Language Acquisition/ Instructional Technology (SLAIT) listing

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu

This degree program is available under Second Language Acquisition (Ph.D.) It is no longer available as a part of the Interdisciplinary track.

MATHEMATICS EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1311
Dept Code: EDI
Program (Major/College): AMA EJ

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
This degree is designed primarily for secondary school teachers desiring to improve their skills in the teaching of mathematics to secondary students,

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admission Requirements:

MA Plan I
Meet one of the following criteria:
1. Shall have earned a "B" (3.0 on a 4.0 scale) average or better in all upper division level undergraduate coursework in the baccalaureate degree.

   OR

   Shall have GRE scores of 450 verbal and 550 quantitative or higher taken within five years
2. Certification in mathematics education (Include copy of your Florida State Teaching Certification with your application. Temporary Certificates are not acceptable.)

Plan II Inactive.

MA Plan III

1. A bachelor's degree or equivalent from a regionally accredited university or its international equivalent.
2. Meet one of the following criteria:

   Shall have earned a "B" (3.0 on a 4.0 scale) average or better in all upper division level undergraduate coursework

   Or

   Shall have GRE scores of 450 verbal and 550 quantitative or higher, taken within five years.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions/.

DEGREE PROGRAM REQUIREMENTS

Plan I Option
Process Core: (minimum of 9 hours)
EDF 6432
EDF 6481
EDF 6211 or EDF 6215

Current Trends:
MAE 6136 Current Trends in Secondary School Mathematics

Elective: 3 hours of mathematics education

Specialization: 18 hours minimum
Graduate level mathematics courses to be approved by the student's advisor.

Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination in the concentration area.

A Plan III option is available for individuals who are neither certified nor desire certification.

The Master of Arts in Teaching (M.A.T.) in Mathematics Education Degree program is currently available at the middle grades (5-9) level and under development for secondary grades (6-12). Please check the Mathematics Education website for an update as well as other sections of this catalog.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria

COURSES
See
www.coedu.usf.edu/main/departments/seced/math/mathma_course.htm

MATHEMATICS EDUCATION PROGRAM (5-9)

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 40-46
Program Level: Masters
CIP Code: 13.1311
Dept Code: EDI
Program (Major/College): TMA ED

Please refer to Secondary Mathematics Program (6-12) for information on that program level.

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A.T. in Middle Grades Mathematics Education (5-9) is designed for individuals seeking initial certification to teach mathematics at the middle grades level.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admissions Requirements include:

1. A bachelor's degree or equivalent from a regionally accredited university or its international equivalent
2. Have an earned minimum grade point average of 3.0 on a 4.0 scale average or higher in all upper division level undergraduate coursework taken in the baccalaureate degree
   OR
   Shall have GRE scores of 450 Verbal and 550 Quantitative or higher taken within five years
3. Meet one of the following criteria:
   Have passed the Florida Subject Area Exam in Mathematics 5-9
   Or
   Have completed at least 18 credit hours in mathematics at the level of college algebra.
4. Demonstrate mastery of general knowledge including the ability to read, write, and compute by passing the Florida General Knowledge Test (GKT) or College Level Academic Skills Test (CLAST), if taken and passed prior to July 1, 2004. For graduate level teacher preparation programs, GRE scores of 450 verbal and 550 quantitative or higher, taken within the last 5 years may be accepted in lieu of GKT or CLAST.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions/

DEGREE PROGRAM REQUIREMENTS

Educational Core – 12 hrs.
Mathematics Coursework – 15 hrs. minimum
Mathematics Education Coursework – 13 hrs.
Internship – 6 hrs

A comprehensive exam/final project is also required.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/math/mathma_course.htm

OTHER INFORMATION

For further information about the program, check the website
http://www.coedu.usf.edu/main/departments/seced/Math/Math.htm

Mathematics Education Program (6-12)

Please refer to Secondary Mathematics (6-12) for specific information

MATHEMATICS EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Mathematics Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CMA

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student's advisor. At least 60 percent of the program hours must be at the 6000 level.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent. Admission Requirements include:

1. A bachelor's degree or equivalent from a regionally accredited university or its international equivalent
2. Certification in Mathematics (Include a copy of your Florida State Teaching Certificate)
3. Verification of at least two years of successful pre-college teaching
4. Meet one of the following criteria:
   Shall have earned a "B" (3.0 on a 4.0 scale) average or higher in all upper division level undergraduate coursework
   OR
   Shall have GRE scores of 450 verbal and 550 quantitative or higher, taken within five years.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Process Core (12 hours minimum):
EDF 6432
EDF 6481
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606

Curriculum and Instruction: EDG 6627 (3 hours)

Concentration/Specialization: At least 18 hours to include courses in content and/or the teaching of this content to be planned with the student's advisor. MAE 6136, Curriculum Trends in Secondary Education, must be included within the 18 hours of specialization.

A **comprehensive examination** is required at the end of the program.

COURSES - See
http://www.coedu.usf.edu/main/departments/seced/math/mathma_course.htm

MATHEMATICS EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program
With a concentration in Mathematics Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Specialist
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	SMA

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

Program Description
The Ed.S. Degree in Curriculum and Instruction with concentration in Mathematics Education prepares specialists for classroom instruction or leadership/supervisory roles.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admissions Requirements include:

Submit official GRE scores. Scores of 600 on the quantitative portion and 475 on the verbal portion are expected.

2. An earned a "B" (3.0 on a 4.0 scale) average or higher in all work attempted while registered as an upper division student in the Baccalaureate degree, or a 3.5 grade point at the Master's level.
3. Proof of educational or professional experience

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

The Ed.S. program is highly individualized. Within the program structure, candidates' programs are planned on the basis of previous educational and professional experience and future goals. The program of study must be approved by a faculty committee.

The program of study requires a minimum of 15 hours of specialization in mathematics education and/or mathematics., 12 hours in professional education, and a minimum of nine (9) hours towards a thesis/project. A comprehensive exam is also required.

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/math/mathma_course.htm

MATHEMATICS EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Mathematics Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DMA

CONTACT INFORMATION

College: Education
Department: Secondary Education
Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The degree program which replaces this concentration is entitled "Teaching and Learning in the Content Area: General Education." Refer to "Teaching and Learning in the Content Area: General Education" in this Graduate Catalog for specific information.

Specifically, the program aims to prepare individuals who are able to do the following: be leaders in mathematics education at the local, state, and national levels; conduct sound research on issues related to the teaching and learning of mathematics and to disseminate that research in appropriate forums; employ sound teaching that contributes to standards-based mathematics education reform; support practicing K-12 professionals in their innovations in mathematics education; and support the preparation of future mathematics educators at all levels, but particularly at the K-12 levels.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: Curriculum development and research, teaching and teacher development, assessment, technology.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent. Admissions Requirements include:

1. Submit official GRE scores taken within the last 5 years. Scores of 600 on the quantitative portion and 475 on the verbal portion are expected.
2. Shall have earned a "B" (3.0 on a 4.0 scale) average or higher in all work attempted while registered as an upper division student in the Baccalaureate degree, or a 3.5 grade point at the Master's level.
3. Proof of educational or professional experience at the secondary or community college level

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Mathematics Education Concentration (21 hours)
MAE 7655 Research Issues in Technology
MAE 7146 Curriculum History and Research
MAE 7794 Preparing K-12 Math Teachers
MAE 7796 Research Issues
MAE 7138 Assessment Issues
MAE 7945 Practicum (must be taken twice)

Research Core (15 hours)
EDF 6407 Statistical Analysis for Research I
EDF 7408 Statistical Analysis for Research II
EDF 7477 Qualitative Research I
EDF 7478 Qualitative Research II
EDF 7410 Research Design

Education Core (9 hours)
ESE XXXX Teaching and Learning in the Content Area (under development)
EEX 7743 Philosophies of Scholarly Inquiry
EDF 7146 Cognitive Issues in Instruction

Cognate (12 hours)
These courses are based on individual student interests, and should be taken at the 6000 level.

Doctoral Qualifying Exam (must be passed to be admitted to candidacy)

Residency Requirement (2 consecutive semesters of fulltime study in a 12 month period)

Dissertation (Minimum 18 hours)

COURSES
See
http://www.coedu.usf.edu/main/departments/seced/Math/Mathdoc_course.html

MEASUREMENT AND EVALUATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Measurement and Evaluation

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Fall admission only

Minimum Total Hours: 42
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CME

CONTACT INFORMATION

College: Education
Department: Educational Measurement and Research

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
This degree program is designed to prepare mid-level testing and evaluation personnel for employment in school districts, government agencies, commercial test development companies, and program research and evaluation enterprises. The program prepares personnel with specialized skills in test construction, data analysis, program evaluation, and research design.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

In addition to meeting the USF admission requirements, the Department of Educational Measurement and Research has the following admission criteria for students applying to the M.Ed. program. Applicants must:

1. Have a bachelor's degree or equivalent from a regionally accredited university or international equivalent
2. Have earned a GPA of at least 3.0 on a 4.0 scale while an upper division student in a Baccalaureate degree
3. Submit official Graduate Record Examination (GRE) scores
4. Have a minimum of two years relevant experience in education
5. Have three letters of recommendation from professionals who are familiar with their scholarship and work history
6. Demonstrate the ability to write professionally by submitting a scholarly paper completed as part of their prior coursework
7. Present self professionally in an oral interview with two or more faculty members
8. Write a statement of professional goals (immediate, intermediate, and long term) and research interests. Professional goals and research interests need to be compatible with the opportunities afforded through a degree in educational measurement and research
9. Receive endorsement by the majority of tenured and tenure earning faculty members in the department

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study (42 hours)
Process Core (14 hours)

EDF 6432 (3)	EDF 6481 (3)
EDF 6215 (4)	EDF 6606 (4)

Concentration (9 hours)

EDG 6627 (3) EDF 6492 (3)
EDF 6288 (3)

Specialization (19 hours)

EDF 6407 (4) EDF 7408 (4)
EDF 7488 (2) EME 6930 (3)
EDF 6446 (3)
EME Computer Elective (3)

Comprehensive Examination

EDUCATIONAL MEASUREMENT AND RESEARCH COURSES

EDF 6407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I (4)
Theory and application of statistical procedures to problems in education: (1) Descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.

EDF 6432 FOUNDATIONS OF MEASUREMENT (3)
Basic measurement concepts, role of measurement in education, construction of teacher-made objective tests and performance assessments, fundamental descriptive statistics for use in test interpretation, evaluation of standardized tests, and interpretation of standardized test score reports.

EDF 6446 DEVELOPMENT AND VALIDATION OF TESTS IN EDUCATION (3)
Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks. (PR: EDF 6432, EDF 6407 or CI)

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH (3)
Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies. (PR: EDF 6432 or CI)

EDF 6492 APPLIED EDUCATIONAL PROGRAM EVALUATION (3)
Interpretation, and evaluation of standardized tests; survey development and use; program evaluation; personnel evaluation; attitude assessment; and strategic planning.

EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II (4)
Theory and application of statistical procedures to problems in education: (1) ANOVA-factorial; ANCOVA; (2) multiple correlation and regression -- a specific technique and a general approach to data analysis. Coordinated use of computer included. (PR: EDF 6407 or equiv. or CI)

EDF 7488 PROBLEMS IN EDUCATIONAL DATA ANALYSIS (2)
Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation. (PR: EDF 7408 or CI)

Courses Required from Other Departments

EDF 6215 LEARNING PRINCIPLES APPLIED TO INSTRUCTION (4)
Learning principles and their application to classroom instruction. (PR:CI)

EDF 6288 INSTRUCTIONAL DESIGN I (3)
Instructional design models/theories and their systematic application to instructional goals. (PR: EDF 6215 or CI)

EDF 6606 SOCIO-ECONOMIC FOUNDATIONS OF AMERICAN EDUCATION (4)
Socio-economic factors as they relate to the work of professional educators and the role of public education in American society.

EDG 6627 FOUNDATIONS OF CURRICULUM AND INSTRUCTION (3)
Introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels. Open to all graduate students. (PR: EDG 4620)

EME 6930 PROGRAMMING LANGUAGES FOR EDUCATION (3)
Development of concepts, strategies, and materials for using programming languages in educational settings. Separate sections will focus on different programming languages such as LOGO, BASIC, Hyperscripting, Pascal, Advanced Pascal. (PR: Computer literacy)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

Other Information:
Program may have additional requirements. Please check with program before applying.

MEASUREMENT AND EVALUATION CONCENTRATION

Education Specialist (Ed. S.) Degree in the Curriculum and Instruction Program
With a concentration in Measurement and Evaluation

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Fall Admission only

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SME

CONTACT INFORMATION

College: Education
Department: Educational Measurement and Research

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Ed. S. program prepares specialists for work in school districts, government agencies, commercial test development companies, and program research and evaluation enterprises.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

In addition to meeting the USF admission requirements, the Department of Educational Measurement and Research has the following admission criteria for students applying to the Ed. S. program. Applicants must:

1. Have a master's or educational specialist's degree or equivalent from a regionally accredited university or international equivalent.
2. Have earned a GPA of at least 3.0 on a 4.0 scale in upper division coursework while in a Baccalaureate degree, or a minimum GPA of 3.5 on a 4.0 scale in graduate coursework
3. Submit official Graduate Record Examination (GRE) score
4. Have three letters of recommendation from professionals who are familiar with their scholarship and work history
5. Demonstrate the ability to write professionally by submitting a scholarly paper completed as a part of their prior coursework
6. Present self professionally in an oral interview with two or more faculty members
7. Write a statement of professional goals (immediate, intermediate, and long term) and research interests. Professional goals and research interests need to be compatible with the opportunities afforded through a doctoral degree in educational measurement and research
8. Receive endorsement by the majority of tenured and tenure earning faculty members in the department

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

This program requires 36 hours beyond the Master's Degree. The program is individually planned with an advisor to include coursework in systematic planning,

test development, program evaluation, research design, and statistical analysis. Nine (9) of the 36 hours are to be taken as thesis hours. A comprehensive examination and oral defense of the thesis/thesis project are required.

EDUCATIONAL MEASUREMENT & RESEARCH COURSES

EDF 6407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I (4)
Theory and application of statistical procedures to problems in education: (1) Descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.

EDF 6432 FOUNDATIONS OF MEASUREMENT (3)
Basic measurement concepts, role of measurement in education, construction of teacher-made objective tests and performance assessments, fundamental descriptive statistics for use in test interpretation, evaluation of standardized tests, and interpretation of standardized test score reports.

EDF 6446 DEVELOPMENT AND VALIDATION OF TESTS IN EDUCATION (3)
Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks. (PR: EDF 6432, EDF 6407 or CI)

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH (3)
Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies. (PR: EDF 6432, or CI)

EDF 6492 APPLIED EDUCATIONAL PROGRAM EVALUATION (3)
Design, interpretation, and evaluation of standardized tests; survey development and use; program evaluation; personnel evaluation; attitude assessment; and strategic planning.

EDF 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U

EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II (4)
Theory and application of statistical procedures to problems in education: (1) ANOVA-factorial; ANCOVA; (2) multiple correlation and regression -- a specific technique and a general approach to data analysis. Coordinated use of computer included. (PR: EDF 6407 or equiv. or CI)

EDF 7410 DESIGN OF SYSTEMATIC STUDIES IN EDUCATION (4)
Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and role of sampling in systematic studies. (PR: EDF 6407, EDF 7408 or equiv. or CI)

EDF 7437 ADVANCED EDUCATIONAL MEASUREMENT I (3).
Logical, empirical, and statistical models of measurement processes. Examination of scaling issues with a focus on reliability and validity. Critique of available instruments in education and the social sciences. (PR: EDF 6432 or equiv.; EDF 6407 or equiv.)

EDF 7438 ADVANCED EDUCATIONAL MEASUREMENT II (4).
Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Application of psychometric theory to the construction and score validation of measurement instruments in education and the social sciences. (PR: EDF 7437 or equiv.; CI)

EDF 7484 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH III (4)
Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminant Analysis, Multivariate Analysis of Variance, and Factor Analysis. (PR: EDF 7408 or CI)

EDF 7485 THEORY AND PRACTICE OF EDUCATION EVALUATION (3)
Comparative analysis of contemporary evaluation models; model building based on theory and professional standards; ethics in internal and external evaluation; social and political impact of evaluation on decision making; and the design, implementation and dissemination of evaluation studies. (PR: EDF 7493 or CI).

EDF 7488 PROBLEMS IN EDUCATIONAL DATA ANALYSIS (2)
Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation. (PR: EDF 7408 or CI)

EDF 7493 SYSTEMS APPROACHES FOR PROGRAM PLANNING, EVALUATION AND DEVELOPMENT (4)
An introduction to General Systems Theory and its applications in education, including educational theories and research. Special emphasis is placed on planning, developing, and evaluating educational programs. (PR: Advanced GS or CI)

EDF 7940 PRACTICUM IN EDUCATIONAL PLANNING, EVALUATION, AND DEVELOPMENT (1-8)
Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity. Rpt. up to 8 hours. S/U. (PR: EDF 7408, EDF 7493)

EDG 7910 DIRECTED RESEARCH Var. Rpt. S/U. (PR: GR. Ph.D. level)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

Other Information:
Please check with program before applying.

MEASUREMENT AND EVALUATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Measurement and Evaluation

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Fall Admission only

Minimum Total Hours: 93 hours
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DME

CONTACT INFORMATION

College: Education
Department: Educational Measurement and Research
Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The Ph.D. in Curriculum and Instruction with a concentration in Measurement and Evaluation focuses on the development of systematic inquiry skills essential to the study and evaluation of education processes and outcomes. The intent of the program is to develop personnel to work in universities, school districts, government agencies, commercial test publishing and program evaluation enterprises.

The doctoral program emphasizes research in inquiry methodology and applied problems in education and the behavioral sciences. A supervised practicum provides opportunities to apply methods in systematic inquiry in various settings. In sum, methodological skills are developed within a programmatic context that encourages growth of knowledge about education, considers important principles of research, and provides a clinical setting in which these elements can be fused into professional applications.

Emphasis is placed on those aspects of research and evaluation design, measurement, statistical analysis, and systems approaches that are relevant to both decision-oriented and conclusion-oriented research. Inquiry methods include traditional experimental and quasi-experimental designs as well as survey, policy analysis, historical, ethnographic, case study, and naturalistic approaches. The intent of the program is to develop instructional and research personnel who can strengthen the training, research and development capabilities of agencies and institutions concerned with education.
While the doctoral program in measurement, research, and evaluation emphasizes methodology, concentration in substantive disciplines within education and/or the social sciences is possible. Concentration in a cognate provides a context within which the methods of systematic inquiry may be applied.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

In addition to meeting the USF admission requirements, the Department of Educational Measurement and Research has the following admission criteria for students applying to their doctoral program. Applicants must:

1. Have a master's or educational specialist's degree or equivalent from a regionally accredited university or international equivalent
2. Have earned a GPA of at least 3.0 on a 4.0 scale in the upper division coursework while in a Baccalaureate degree
3. Submit official Graduate Record Examination (GRE) score
4. Have three letters of recommendation from professionals who are familiar with their scholarship and work history
5. Demonstrate the ability to write professionally by submitting a scholarly paper completed as a part of their prior coursework

6. Present self professionally in an oral interview with two or more faculty members
7. Write a statement of professional goals (immediate, intermediate, and long term) and research interests. Professional goals and research interests need to be compatible with the opportunities afforded through a doctoral degree in educational measurement and research
8. Receive endorsement by the majority of tenured and tenure earning faculty members in the department

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study:

Concentration/Specialization/Emphasis Area (28 hrs. minimum):
EDF 7940 (8) EDF 7488 (2) EDF 7493 (4)
EDF 7410 (4) EDF 7655 (4) EDG 79l0 (3)

Curriculum and Instruction Elective (3 hrs. minimum): EDG 7667 (3), EDG 7692 (3)

Dissertation (24 hrs. minimum): 7980

Cognate Area (12 hrs. minimum):

Elective courses

Statistics/Measurement/Research Design (19 hrs. minimum, incl Tool requirement):
EDF 6407 (4) EDF 7408 (4) EDF 7484 (4)
EDF 7437 (3) EDF 7438 (4)
Foundations (7-8 hrs. minimum):
To be selected from offerings in Psychological Foundations and Sociological Foundations

EDUCATIONAL MEASUREMENT & RESEARCH COURSES

EDF 6407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I (4)
Theory and application of statistical procedures to problems in education: (1) Descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.

EDF 6432 FOUNDATIONS OF MEASUREMENT (3)
Basic measurement concepts, role of measurement in education, construction of teacher-made objective tests and performance assessments, fundamental descriptive statistics for use in test interpretation, evaluation of standardized tests, and interpretation of standardized test score reports.

EDF 6446 DEVELOPMENT AND VALIDATION OF TESTS IN EDUCATION (3)
Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks. (PR: EDF 6432, EDF 6407 or CI)

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH (3)
Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies. (PR: EDF 6432, or CI)

EDF 6492 APPLIED EDUCATIONAL PROGRAM EVALUATION (3)
Design, interpretation, and evaluation of standardized tests; survey development and use; program evaluation; personnel evaluation; attitude assessment; and strategic planning.

EDF 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U

EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II (4)
Theory and application of statistical procedures to problems in education: (1) ANOVA-factorial; ANCOVA; (2) multiple correlation and regression -- a specific technique and a general approach to data analysis. Coordinated use of computer included. (PR: EDF 6407 or equiv. or CI)

EDF 7410 DESIGN OF SYSTEMATIC STUDIES IN EDUCATION (4)
Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and role of sampling in systematic studies. (PR: EDF 6407, EDF 7408 or equiv. or CI)

EDF 7437 ADVANCED EDUCATIONAL MEASUREMENT I (3)
Logical, empirical, and statistical models of measurement processes. Examination of scaling issues with a focus on reliability and validity. Critique of available instruments in education and the social sciences. (PR: EDF 6432 or equiv.; EDF 6407 or equiv.)

EDF 7438 ADVANCED EDUCATIONAL MEASUREMENT II (4)
Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Application of psychometric theory to the construction and score validation of measurement instruments in education and the social sciences. (PR: EDF 7437 or equiv.; CI)

EDF 7484 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH III (4)
Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminant Analysis, Multivariate Analysis of Variance, and Factor Analysis. (PR: EDF 7408 or CI)

EDF 7485 THEORY AND PRACTICE OF EDUCATION EVALUATION (3)
Comparative analysis of contemporary evaluation models; model building based on theory and professional standards; ethics in internal and external evaluation; social and political impact of evaluation on decision making; and the design, implementation and dissemination of evaluation studies. (PR: EDF 7493 or CI).

EDF 7488 PROBLEMS IN EDUCATIONAL DATA ANALYSIS (2)
Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation. (PR: EDF 7408 or CI)

EDF 7493 SYSTEMS APPROACHES FOR PROGRAM PLANNING, EVALUATION AND DEVELOPMENT (4)
An introduction to General Systems Theory and its applications in education, including educational theories and research. Special emphasis is placed on planning, developing, and evaluating educational programs. (PR: Advanced GS or CI)

EDF 7940 PRACTICUM IN EDUCATIONAL PLANNING, EVALUATION, AND DEVELOPMENT (1-8)
Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity. Rpt. up to 8 hours. S/U. (PR: EDF 7408, EDF 7493)

EDF 7980 DISSERTATION (2-30 Var.) Rpt. (PR: Admission to Candidacy)

EDG 7910 DIRECTED RESEARCH Var. Rpt. S/U. (PR: GR. Ph.D. level)

Required Courses From Other Departments

EDF 7655 ORGANIZATION DEVELOPMENT IN EDUCATIONAL INSTITUTIONS (4)
Application of social and behavioral science theory to the organizational and developmental problems of schools and school systems (PR: CI)

EDG 7667 ANALYSIS OF CURRICULUM AND INSTRUCTION (3)
Various theoretical frameworks for analyzing curriculum and instruction. Emphasis on rational models of curriculum inquiry. (PR: EDG 6627)

EDG 7692 ISSUES IN CURRICULUM AND INSTRUCTION (3)
Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with these issues. (PR: EDG 6627)
EDH ____(waiting for course number and description)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION
Please check with program before applying.

MIDDLE SCHOOL EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Middle School Education, English Education

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CJE

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

MIDDLE SCHOOL EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Middle School Education, General Education

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DEGREE INFORMATION

Program Admission Deadlines:
Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CJE

CONTACT INFORMATION

College: Education
Department:
Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

MIDDLE SCHOOL EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Middle School Education, Mathematics Education

DEGREE INFORMATION

Program Admission Deadlines:
Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CJM

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

MIDDLE SCHOOL EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Middle School Education, Science Education

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CJS

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

MIDDLE SCHOOL EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Middle School Education, Social Studies Education

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CJH

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

MUSIC EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program
With a concentration in Music Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SMU

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted to this program.

MUSIC EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Music Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DMU

Also see: Concentration in Music Education offered under the Ph.D. In Music

CONTACT INFORMATION

College: Education
Department:
Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Contact the School of Music for information.

PHYSICAL EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 13.1314
Dept Code: EDP
Program (Major/College): EPH ED

Concentrations available in:
Exercise Science (EXS)
See separate listing for Physical Education – Exercise Science

CONTACT INFORMATION

College: Education
Department: School of Physical Education, Wellness, and Sport Studies

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The master's degree in Physical Education is offered online only. The degree is designed for anyone interested in the lifelong process of becoming a reflective, effective teacher who is prepared to lead youngsters to become physically active for a lifetime.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, National Council for Accreditation of Teacher Education, National Association for Sport and Physical Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements:

1. A bachelor's degree from a regionally accredited institution or international equivalent and satisfying at least one of the following criteria:
   a. A "B" average (3.0 on a 4.0 scale) or higher in all work attempted while registered as an upper division student in a Baccalaureate degree
   OR
   b. A previous graduate degree from a regionally accredited institution.
2. Exercise Science specialization additionally requires a C (a 2.0 on a 4.0 scale) or higher in the following courses:
   a. Anatomy & Physiology I & II or equivalent (minimum 3 credit hours each)
   b. Kinesiology/Biomechanics
   c. Exercise Physiology
   d. Nutrition

   Recommended:
   Physics
   Chemistry
   Computer Proficiency
3. Proof of initial certification (Plan I)

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Physical Education K-12
Two plans are available (Plan I, Plan III).

Plan I –
Program of Study 30 hours minimum

Process Core
EDF 6432 (3 hours), EDF 6481 (3 hours)

Current Trends in Physical Education 3 hours
PET 6535C (3 hours)

Select from the following or others approved by advisor
24 hours

PET 6205	PET 6645	PET 6906
PET 6695C	PET 6425	PET 6910L
PET 6496	PET 6346	PET 6419

Elective (3 hours)

Comprehensive Examination - A written comprehensive examination is required during the semester in which the student completes the requirements for the master's degree.

Plan III –
Program of Study 30 hours minimum

Process Core
EDF 6432 (3 hours), EDF 6481 (3 hours)

Current Trends in Physical Education 3 hours.
PET 6535C 3 hours.
This is an individually planned program. The student will select 21 hours of coursework in consultation with an advisor.

Comprehensive Exam - A written comprehensive examination is required during the semester in which the student completes the requirements for the master's degree

COURSES
http://www.ugs.usf.edu/sab/sabs.cfm

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria

PHYSICAL EDUCATION PROGRAM
EXERCISE SCIENCE CONCENTRATION

Master of Arts (M.A.) Degree in the Physical Education Program
With a concentration in Exercise Science

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Masters
CIP Code:	13.1314
Dept Code:	EDP
Program (Major/College):	EPH ED
Concentration Code:	EXS

CONTACT INFORMATION

College:	Education
Department:	School of Physical Education, Wellness, and Sport Studies
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The Exercise Science program provides the theoretical, practical, and professional skills needed to pursue employment opportunities in exercise science, fitness/wellness, and hospital rehabilitation centers. The course work is designed to prepare students for advanced positions in their respective fields and is based on national standards and competencies established by professional organizations.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, National Council for Accreditation of Teacher Education, National Association for Sport and Physical Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

1. A bachelor's degree from a regionally accredited institution or international equivalent and satisfying at least one of the following criteria:
   a. A "B" average (3.0 on a 4.0 scale) or higher in all work attempted while registered as an upper division in a Baccalaureate degree
      OR
   b. A previous graduate degree from a regionally accredited institution.
2. Exercise Science specialization additionally requires a C (a 2.0 on a 4.0 scale) or higher in the following courses:
   a. Anatomy & Physiology I & II or equivalent (minimum 3 hours each)
   b. Kinesiology/Biomechanics
   c. Exercise Physiology
   d. Nutrition

   Recommended:
   Physics
   Chemistry
   Computer Proficiency

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).
See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit
http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Exercise Science Concentration

Process Core
EDF 6432 (3 hours), EDF 6481 (3 hours)
18 hours selected from Program of Study Listing:
http://www.pe.usf.edu
PET 6971 – Thesis: Physical Education (Optional)
Other courses to be selected in consultation with a faculty advisor.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

READING EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1305
Dept Code: EDR
Program (Major/College): ARD ED

CONTACT INFORMATION

College: Education
Department: Childhood Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
This degree is designed to prepare special reading teachers, clinicians, supervisors, directors, and coordinators of reading for school systems.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

In order to be considered for admission, first-time or transferring graduate applicants must:

1. Have a bachelor's degree or equivalent from a regionally accredited university,
2. Have earned a "B" (3.0 on a 4.0 scale) average or higher in all work attempted while registered as an upper division student working in a baccalaureate degree in a regionally accredited institution

Exceptions to minimum requirements will be considered for National Board Certification and an outstanding professional record.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test).

See http://web.usf.edu/iac/admissions/language.html for further clarification and exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study: **36 hours**

Process Core: 3 hours
EDF 6481

Specialization: 3 hours
LAE 6316

Content Specialization: 30 hours
RED 6247 RED 6449 RED 6540
RED 6544 RED 6545 RED 6747
RED 6748 RED 6846 LAE 6315
FLE 5430

Certification: Students who are not certified in elementary education must complete a set of prerequisite courses.

Program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria. Please contact program for more information.

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm

READING EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Reading Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	33
Program Level:	Masters
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	CRD

CONTACT INFORMATION

College:	Education
Department:	Childhood Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

The Master of Education (M.Ed.) degree in Curriculum and Instruction with a concentration in Reading Education is being replaced by the Master of Arts (M.A.) degree in Reading Education. Please refer to the M.A. in Reading Education for information.

READING-LANGUAGE ARTS EDUCATION CONCENTRATION

Education Specialist (Ed. S.) Degree in the Curriculum and Instruction Program
With a concentration in Reading-Language Arts Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Specialist
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	SRD

CONTACT INFORMATION

College:	Education
Department:	Childhood Education
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

Program Description
This degree prepares in-school leaders in the field (directors of R/LA programs for school systems, clinical directors in private or public settings, or curriculum supervisors.) Through program experiences, students acquire expertise in reading/language arts processes, design and evaluation of instructional materials and techniques, and treatment of reading/language arts problems. A student may elect to acquire more depth in certain areas, but a basic knowledge in all is required.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. A 40th percentile GRE score in the verbal, quantitative, and analytical sections
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Proof of initial certification
5. Letters of recommendation
6. Interview
7. Concept Paper or goal statement

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 36 hours beyond the Master's degree, including coursework, written comprehensive examination, and a project. The Ed.S. program is separate from the Ph.D. It is individually planned with an advisor to include coursework in areas such as reading, elementary education, literacy, and research.

Minimum Requirements:	**36 hours**
Specialization Coursework	27 hours
Thesis	9 hours

Comprehensive Exam Required

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

READING AND LANGUAGE ARTS EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Reading and Language Arts Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DRD

CONTACT INFORMATION

College:	Education
Department:	Childhood Education
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

Program Description

The program has been designed primarily to prepare professionals in the area of literacy who will work as teacher educators and researchers at the university level, and leaders and researchers at the district level. The philosophical underpinnings of the program lie in the identification of the roles of teacher educators working in the university settings.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent. Requirements for all applicants include:

1. 40th Percentile GRE scores in verbal, qualitative, and analytical sections.
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Proof of initial certification
5. Letters of recommendation
6. Interview
7. Concept Paper or goal statement

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 75-81 hours beyond the Master's degree. Each student's program is individually planned in consultation with a faculty program committee.

Program of Study: **75-81 hours**

Specialization: 18 hours
To be determined with program director

Cognate: 12 hours
To be determined with program director

Measurement/Statistics/Research/ Design: 9 hours
EDF 6407 EDF 7408
EDF 7410 or EDF 7437 or
EDF 7484 or EDF 7493 or
EDF 7477 or EDF 7478

Foundations: 7-8 hours
Electives in Psychological and Social foundations, Philosophical or Historical foundations

Dissertation: **24 hours**

COURSES see http://www.ugs.usf.edu/sab/sabs.cfm

SCHOOL PSYCHOLOGY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 1
Fall Admission Only

Minimum Total Hours: 30
Program Level: Masters*
Program Status: Active
CIP Code: 42.1701
Dept Code: EDF
Program (Major/College): ASP EJ

*Only available when combined with the Ed. S. or Ph.D. degree

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations
Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.A. degree in School Psychology is offered only when combined with the Ed.S. and/or Ph.D. degrees. The M.A. in School Psychology is not a terminal degree and can not be used for certification or licensure as a school psychologist in the State of Florida. Please see the Ed.S. and Ph.D. program descriptions for information about the School Psychology Program.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Refer to the admission information on the Ed.S. and/or Ph.D. Degree listings.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 550 paper-based, 213 computer-based, or 79 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions.html

DEGREE PROGRAM REQUIREMENTS

Contact program for specific information.
http://www.coedu.usf.edu/schoolpsych

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SCHOOL PSYCHOLOGY CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program
With a concentration in School Psychology

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 1
Fall Admission Only

Minimum Total Hours: 93
Program Level: Specialist
Program Status: Active
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SSP

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
School Psychology is offered as a concentration under the Ed.S. Curriculum and Instruction degree program. The Educational Specialist (Ed.S.) degree consists of approximately 95 graduate semester hours beyond the bachelor's degree, and includes two years of practica experiences and a full year, 1,500 clock hour internship and a thesis or research project. Completion of the Ed.S. degree requires three (3) years of full-time study, including summer semesters beyond the bachelors degree.

The Ed.S. Program is fully approved by the National Association of School Pschologists and the Florida Department of Education. Students who complete the School Psychology Training Program at USF automatically meet the academic and field training requirements for certification as a Nationally Certified School Psychologist (N.C.S.P.)

For additional information on the Ed.S. in Curriculum and Instruction (with a Concentration Specialization in School Psychology), contact the program.
http://www.coedu.usf.edu/schoolpsych

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, NCATE and Approved by the National Association of School Psychologists.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission occurs once each year for the Fall class. The School Psychology program is a limited access program. This means that only a limited number of students are able to be accepted each year. It is also a direct receipt program. Please check with the program for specific information.

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Prerequisite Coursework for Admission

- Bachelor's degree or higher
- An undergraduate (or graduate) course in Statistics
- An undergraduate (or graduate) course in Tests and Measurements (including issues such as reliability, validity, standard error of measurement, etc.)
- An undergraduate (or graduate) course in Research Methods or Experimental Design with a lab component.

Required Admissions Materials

1. Submit a completed Application to the Universities Graduate Admissions Office
2. Submit official GRE scores (Note: Verbal, Quantitative, and Analytical Writing scores are required; scores should not be more than 5 years old)
3. Provide official transcripts from all colleges and universities where you have completed coursework. Applicants must have an undergraduate GPA of 3.5 or higher in upper division level undergraduate coursework.
4. Provide a statement of professional goals. In a 2-3 page statement, explain your immediate, intermediate, and long term goals as well as your research interests. Professional goals and research interests must be compatible with the School Psychology Program.
5. Submit three letters of recommendation from professionals who are familiar with your scholarship and work history.
6. Demonstrate the ability to write professionally by submitting a scholarly paper completed as part of your prior course work.
7. If invited for an interview, a) present self professionally in an oral interview with two or more faculty members and graduate students, and b) provide a writing sample related to a relevant topic to the field of school psychology during the interview process.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 550 paper-based, 213 computer-based, or 79 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://www.usf.edu/iac/admissions/

DEGREE PROGRAM REQUIREMENTS

Problem Solving/Assessment/Intervention
24 Semester Hours

Psychological Foundations
18 Semester Hours

Educational Foundations
11 Semester Hours

Professional Practice
5 Semester Hours

Statistics/Research Design/Thesis
17 Semester Hours

Practicum/Internship
20 Semester Hours

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
www.coedu.usf.edu/schoolpsych

SCHOOL PSYCHOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 1
Fall admission only*

Minimum Total Hours: 102
Program Level: Doctoral
Program Status: Active
CIP Code: 42.1701
Dept Code: EDF
Program (Major/College): DSG ED

******see admission information in text below.*

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The Doctor of Philosophy (Ph.D.) degree consists of approximately 62 semester hours beyond the Ed.S. degree in School Psychology and includes advanced leadership coursework and practica experiences, concentration and area of emphasis courses in school psychology, a 2,000 clock hour internship, and the dissertation. A Master of Arts (M.A.) degree is earned by most students during the first year of their Ph.D. program. However, the M.A. is not considered a terminal degree and is not sufficient for state certification in school psychology.

The Ph.D. program in School Psychology at the University of South Florida is offered through the College of Education's Department of Psychological and Social Foundations. The program has been designed specifically for training in school psychology and has been developed to meet all relevant national accreditation standards. The Ph.D. program is fully accredited by the American Psychological Association and fully approved by the National Association of School Psychologists and the Florida Department of Education. Students who complete the School Psychology Training Program at USF automatically meet the academic and field training requirements for certification as a Nationally Certified School Psychologist (N.C.S.P.)

The Ph.D. program in School Psychology is committed to training professionals who have expertise in the depth and diversity of both psychology and education. This training is accomplished within a scientist-practitioner model that emphasizes comprehensive school psychological services using a social and cognitive behavioral learning theory orientation that recognizes the impact of children's individual differences and the importance of multicultural awareness and skills. Graduates of the Ph.D. program move to positions of employment as university faculty and researchers, as psychologists in school, hospital, and agency settings, and as program leaders in applied settings. The program also offers professional development opportunities for practitioners in the field.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, NCATE, Approved by the National Association of School Psychologists and Accredited by the American Psychological Association.

Major Research Areas:
Pediatric School Psychology, Organizational Development and Consultation, Academic Assessment/Problem-Solving and Intervention, Positive Psychology, Family Systems, Behavior Disorders, Prevention/Intervention with Violence, Parental Collaboration, Life Satisfaction, Gender-related Issues in Early Asolescence, ADHD, Early Literacy

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission occurs once each year for the Fall class. The School Psychology program is a limited access program. This means that only a limited number of students are able to be accepted each year. It is also a direct receipt program. Please check with the program for specific information.

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Prerequisite Coursework for Admission

- Bachelor's degree or higher
- An undergraduate (or graduate) course in Statistics
- An undergraduate (or graduate) course in Tests and Measurements (including issues such as reliability, validity, standard error of measurement, etc.)
- An undergraduate (or graduate) course in Research Methods or Experimental Design with a lab component.

Required Admissions Materials

1. Submit a completed Application to the Universities Graduate Admissions Office
2. Submit official GRE scores (Note: Verbal, Quantitative, and Analytical Writing scores are required; scores should not be more than 5 years old)
3. Provide official transcripts from all colleges and universities where you have completed coursework. Applicants must have an undergraduate GPA of 3.5 or higher in upper division level undergraduate coursework.
4. Provide a statement of professional goals. In a 2-3 page statement, explain your immediate, intermediate, and long term goals as well as your research interests. Professional goals and research interests must be compatible with the school psychology program.
5. Submit three letters of recommendation from professionals who are familiar with your scholarship and work history.
6. Demonstrate the ability to write professionally by submitting a scholarly paper completed as part of your prior course work.
7. If invited for an interview, a)present self professionally in an oral interview with two or more faculty members and graduate students, and b)

provide a writing sample related to a relevant topic to the field of school psychology during the interview process.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 550 paper-based, 213 computer-based, or 79 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions/ .

DEGREE PROGRAM REQUIREMENTS

The Ph.D. program consists of a minimum of 62 credit hours beyond the Ed.S. program. The Ph.D. program requires advanced course work in leadership, interventions, professional practices, statistics/research methods, and an area of emphasis (e.g. pediatric school psychology, policy development/analysis, research concentration) within the broader school psychology curriculum, and additional practica experiences, all allowing for more in-depth study of content and issues in the field. A doctoral level internship (2000 hours) must be completed by all doctoral students.

In addition to admitting students at the Post-Baccalaureate Level, the USF School Psychology program admits Ph.D. students who have already earned an Ed.S. or the equivalent and are credentialed as school psychologists and/or who are looking for advanced doctoral study in the field

Full-time study is required of most Ph.D. students at least until they complete all coursework and Qualifying Exams and have only the dissertation to complete. Minimally, this will involve three years of full-time study after the M.A. degree. Full-time study involves a minimum of 9 semester hours of coursework per semester. Residency involves two semesters of full-time study in a 12 month period; students are allowed assistantship work or a part-time job up to 20 hours per week during residency. A part-time Ph.D. option is available for selected students; more information on this option is available from the Program Coordinator.

Program Requirements:

1. Completion of all coursework for the Ed. S. Program
2. Advanced Course Work in the following Areas:

    a. Statistics/Design-8 sh
    b. Professional Practice-6 sh
    c. Problem Solv/Intervention-8 sh
    d. Practicum/Internship-18 sh
    e. Area of Emphasis-12 sh

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

http://www.coedu.usf.edu/schoolpsych

SCIENCE EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1316
Dept Code: EDI
Program (Major/College): SCE EJ

Concentrations available in:
Biology (ASB)
Chemistry (ASC)
Physics (ASY)
(See separate listings for these concentrations)

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
Plan I – The Plan I track is a program of graduate study designed for those with initial certification in the area of concentration (typically with a baccalaureate degree from a college of education) who desire to increase their competence in the subject specialization. It is an individually planned program of study in consultation with a departmental advisor.

Plan II – Inactive. The Science Education MAT program is a program of graduate study for individuals with a bachelor's degree in a field other than education who wish to become certified teachers in science education at the middle or senior high school level. Please refer to the Science Education MAT program section.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, the National Council for Accreditation of Teacher Education, and the Department of Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admissions requirements include:

1. A bachelor's degree or equivalent from a regionally accredited university or international equivalent.

2. A bachelor's degree in a science field (biology, chemistry, physics, geology, etc.) or coursework in a science teaching field acceptable to the program faculty. Students should provide a typed listing of science courses as part of their application. Students who do not meet this requirement can enroll in undergraduate courses prior to application. These courses will not be counted toward the master's degree and can be taken at any regionally accredited university or community college

3. A "B" (3.0 on a 4.0 scale) average or higher in all work attempted while registered as an upper division student working for a baccalaureate degree, or

4. Students seeking admission by completing three graduate courses with a B or higher in each course while a non-degree seeking student should take: * EDF 6432 Foundations of Measurement and * EDF 6211 or 6215 Psychological Foundations and * SCE 5337 or SCE 5364, and

5. CLAST, GKT, Praxis I or GRE is required. For the GRE the following scores are required: V:430, Q:570, AW:4.

6. Proof of educational or professional experience.

7. Proof of initial certification or relevant degree (Plan I).

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions/

DEGREE PROGRAM REQUIREMENTS

Plan I
Program of Study: 33 hours minimum

A. Process Core 12 hours
EDF 6432
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
EDF 6481 or an equivalent research methods course.

B. Current Trends in Science Education (SCE 6634) 3 hours

C. Specialization: 18 hours minimum – courses to be taken in the College of Arts and Sciences based on the prior background and interests of the student.

D. Comprehensive Examination

Plan II
Inactive

COURSES
See
http://www.coedu.usf.edu/main/departments/seced/science/scemd.htm

SCIENCE EDUCATION PROGRAM

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 39
Program Level: Masters
CIP Code: 13.1316
Dept Code: EDI
Program (Major/College): TSC ED

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Masters of Arts in Teaching (M.A.T.) in Science Education is designed for individuals with a bachelor's degree in science (or equivalent) who wish to become certified teachers in science education at the middle or senior high school level. This program leads to teaching certification in grades 6-12 science education as part of the master's degree program. For the general program structure, admission and program requirements, please see contact the program coordinator.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the Baccalaureate degree
2. CLAST or GKT
3. Graduate coursework may be allowed in lieu of GPA

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions.

DEGREE PROGRAM REQUIREMENTS

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

EDF 4330:	MEASUREMENT FOR TEACHERS
ESE 5342:	TEACHING THE ADOLESCENT LEARNER
ESE 5344:	CLASSROOM MANAGEMENT FOR A DIVERSE SCHOOL AND SOCIETY
FLE 5366:	ESOL EDUCATION IN CONTENT AREAS
SCE 5364:	READING & COMMUNICATION IN SCIENCE EDUCATION
SCE 5334:	METHODS FOR MIDDLE GRADES SCIENCE EDUCATION
SCE 4330:	METHODS FOR SECONDARY SCIENCE EDUCATION
SCE 4330:	TEACHING THE LIFE SCIENCES
SCE 6436:	TEACHING THE PHYSICAL SCIENCES
SCE 6634:	CURRENT TRENDS IN SCIENCE EDUCATION
SCE 6938:	TOPICS IN SCIENCE EDUCATION: FIELD PRACTICUM
SCE 6937:	INTERNSHIP: SCIENCE EDUCATION

TOTAL 39 semester hours

SCIENCE EDUCATION, BIOLOGY CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Science Education, Biology

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters

CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CBI

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student's advisory committee. At least 60 percent of the program hours must be at the 6000 level.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in work done as an upper division student in the Baccalaureate degree
2. Proof of at least two years of educational or professional experience as judged by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions/

DEGREE PROGRAM REQUIREMENTS

Program of Study **33 hours minimum**

A. Process Core 15 hours)
EDF 6432 (3) Foundations of Measurement
EDF 6481 (3) Foundations of Educational Research
EDF 6211 or EDF 6215 (3) Psy. Foundations or Learning Principles
EDF 6517, EDF 6544, or EDF6606 (3) Social Foundations of Education
EDG 6627 (3) Curiculum

B. Science Education Specialization 18 hours minimum, to include:
SCE 6634 Trends in Science Education 3 hours
Specialization (content) Coursework 15 hours from the College of Arts and Sciences and/or the College of Education as determined by the program advisor.

C. Comprehensive Examination

COURSES

See http://www.coedu.usf.edu/main/departments/seced/science/scema.htm

SCIENCE EDUCATION, CHEMISTRY CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Science Education, Chemistry

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CCH

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student's advisory committee. At least 60 percent of the program hours must be at the 6000 level.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

3. Minimum GPA of 3.0 in work done as an upper division student in the Baccalaureate degree
4. Proof of at least two years of educational or professional experience as judged by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions .

DEGREE PROGRAM REQUIREMENTS

Program of Study **33 hours minimum**
A. Process Core 15 hours
EDF 6432 (3) Foundations of Measurement
EDF 6481 (3) Foundations of Educational Research
EDF 6211 or EDF 6215 (3) Psy. Foundations or Learning Principles
EDF 6517, EDF 6544, or EDF6606 (3) Social Foundations of Education
EDG 6627 (3) Curiculum

B. Science Education Specialization 18 hours minimum, to include:
SCE 6634 Trends in Science Education 3 hours
Specialization (content) Coursework 15 hours from the College of Arts and Sciences and/or the College of Education as determined by the program advisor.

C. Comprehensive Examination

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/science/scema.htm

SCIENCE EDUCATION, PHYSICS CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Science Education, Physics

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CPY

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student's advisory committee. At least 60 percent of the program hours must be at the 6000 level.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in work done as an upper division student in the Baccalaureate degree
2. Proof of at least two years of educational or professional experience as judged by the program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions .

DEGREE PROGRAM REQUIREMENTS

Program of Study **33 hours minimum**

A. Process Core 15 hours)
EDF 6432 (3) Foundations of Measurement
EDF 6481 (3) Foundations of Educational Research
EDF 6211 or EDF 6215 (3) Psy. Foundations or Learning Principles
EDF 6517, EDF 6544, or EDF6606 (3) Social Foundations of Education
EDG 6627 (3) Curiculum

B. Science Education Specialization 18 hours minimum, to include:
SCE 6634 Trends in Science Education 3 hours
Specialization (content) Coursework 15 hours from the College of Arts and Sciences and/or the College of Education as determined by the program advisor.

C. Comprehensive Examination

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/science/scema.htm

SCIENCE EDUCATION CONCENTRATION

Education Specialist (Ed. S.) Degree in the Curriculum and Instruction Program
With a concentration in Science Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SSC

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SCIENCE EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Science Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DSC

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu

The degree program which replaces this concentration is entitled "Teaching and Learning in the Content Area: General Education." **Refer to "Teaching and Learning in the Content Area: General Education" in this Graduate Catalog for specific information.**

PROGRAM INFORMATION

The Science Education doctoral program in the College of Education is committed to providing students with opportunities to examine and expand their pedagogical content knowledge and to immerse themselves in the research process. In doing so, the program is able to graduate exceptional leaders to the field. The collective philosophy of the Science Education program, therefore, is to foster a vision of science literacy that encourages: constructing theoretical and practical knowledge of the natures of science, developing habits of mind open to multiple scientific perspectives, stressing skepticism and critical thinking, developing conceptual understanding of epistemology applied to pedagogical content knowledge, embedding science in cultural, moral and historical contexts, and providing opportunities for students to generate their own meaningful questions and design approaches to investigate original issues relevant to the science education community.

The exploration of past, present, and future practices, and understanding how current decisions affect future trends is approached through a close professional and personal relationship between faculty and graduate students. This relationship includes advising and working together in directed studies and seminars, professional associations, and informal gatherings as well as discussions about issues in education in general, and science education in particular. The fact that graduate students are regarded as professional colleagues with unique areas of expertise from the beginning of their association with the department contributes substantially to their development as science educators.

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SECOND LANGUAGE ACQUISITION AND INSTRUCTIONAL TECHNOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 75
Program Level: Doctoral
CIP Code: 13.401
Dept Code: EDI
Program (Major/College): DLT EJ

Cross-listed under the College of Arts and Sciences, the College of Education and the Interdisciplinary Programs Sections.

CONTACT INFORMATION

Colleges: Education and Arts and Sciences
Department: Secondary Education

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

This is an interdisciplinary program between the College of Education and the College of Arts and Sciences and combines the expertise of both faculties to provide a curriculum in pedagogy, second language acquisition, socio-cultural theory, instructional technology, and statistics, research design. The goal of the program is to prepare students for careers in academia.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Second Language Acquisition, Instructional Technology, Foreign Language Education, Distance Learning.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission Requirements

In addition to the general admission requirements under he advanced graduate education programs, applicants must:

1. Submit a "Statement of Purpose" relating their career goals specifically to this doctoral program and describing their experience with instructional technology and language teaching;
2. Supply a current curriculum vitae;
3. Provide 3 letters of recommendation from professors or other individuals who can attest to the applicant's experience and background;
4. Offer evidence of research experience and/or scholarly promise in the statement of purpose and cover letter;
5. Meet with the graduate faculty for a personal interview;
6. Take a two-hour background assessment to assist faculty in planning the prospective student's program of studies;
7. Submit a transcript evaluation from a foreign transcript evaluation service for all transcripts from non-U.S. institutions.

Most students admitted to this program will:

1. Possess a Master's degree (or equivalent academic level) from a regionally accredited institution or its international equivalent;
2. present a minimum GPA of 3.5 at the Master's level (or international equivalent)
3. score at or above 500 on the GRE verbal reasoning and 4 on the GRE analytical writing section;
4. Submit a TOEFL score of 250 (computer-based) or 80 (internet-based), if applicable.

The faculty will evaluate each applicant's dossier based on a composite of variables and goodness of fit with the program.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 550 paper-based, 213 computer-based, or 80 internet-based test). See

http://web.usf.edu/iac/admissions/language.html for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions..

DEGREE PROGRAM REQUIREMENTS

Program of Study: 75 credit hours - core courses (45-46 semester hours); electives 9-12 semester hours); dissertation (18 semester hours)

COURSES -See http://www.coedu.usf.edu/slait/CurrentStudents/currentStudents.htm

OTHER INFORMATION

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

SECONDARY EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program With a Concentration in Secondary Education

DEGREE INFORMATION

Program Admission Deadlines:
Refer to individual content areas for information on deadlines.

Minimum Total Hours:	73-85
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DTL*

CONTACT INFORMATION

College:	Education
Department:	Secondary Education
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The department of Secondary Education offers this program with a concentration entitled Teaching and Learning in the Content Area: General Education. For information in this catalog, **refer to "Teaching and Learning in the Content Area: General Education Concentration".**

This degree program is available in the following major content areas:

English Education
Mathematics Education
Science Education
Social Science Education

**formerly DSD, now coded as DTL for Teaching and Learning in the Content Area.*

ADMISSIONS INFORMATION

Refer to individual content areas for information.

DEGREE PROGRAM REQUIREMENTS

Contact program for information.

SECONDARY MATHEMATICS PROGRAM (6-12)

Master of Art in Teaching (M.A.T.)Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 40-46
Program Level: Masters
CIP Code: 13.1311
Dept Code: EDI
Program (Major/College): TSM ED

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The MAT in Secondary Mathematics Education (6-12) is designed for individuals seeking initial certification to teach mathematics at the High School or Middle School levels.

Please be advised that program and/or course requirements are subject to change per state legislative mandates, Florida Department of Education program approval standards and accreditation criteria.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent. Other Admissions Requirements include:

1. A bachelor's degree or equivalent from a regionally accredited university or its international equivalent

2. An earned minimum grade point average of 3.0 on a 4.0 scale average or higher in all upper division undergraduate coursework in the baccalaureate degree.
   OR
   GRE scores of 450 Verbal and 550 Quantitative or higher taken within five years

3. Meet one of the following criteria: Have passed the Florida Subject Area Exam in Mathematics 6-12
   OR
   Have completed at least 30 credit hours in mathematics to include 6 hours of calculus, 3 hours of linear or abstract algebra, 3 hours of number theory

4. Demonstrate mastery of general knowledge including the ability to read, write, and compute by passing the Florida General Knowledge Test (GKT) or College Level Academic Skills Test (CLAST). For graduate level teacher preparation programs, GRE scores of 450 verbal and 550 quantitative or higher, taken within the last 5 years may be accepted in lieu of GKT or CLAST.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions..

DEGREE PROGRAM REQUIREMENTS

Mathematics Education Studies (28 hours)
Professional Education Studies (12 hours
Internship (6 hours)

COURSES

See
http://coedu.usf.edu/main/departments/seced/Math/Mathma_course.htm

SOCIAL SCIENCE EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 13.1317
Dept Code: EDI
Program (Major/College): ASO EJ

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
Plan I. This program is designed for teachers certified in social science education, typically with a baccalaureate degree from a college of education. It is an individually planned program based on a student's background and professional goals.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools and by the National Council for the Social Studies.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 upper division undergraduate coursework in the baccalaureate degree
2. Proof of educational or professional experience
3. Proof of professional teaching certificate
4. Graduate coursework may be allowed in lieu of GPA

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Plan I

Program of Study	30 hours minimum
Process Core	3 hours
Current Trends in Social Science Education (SSE 6636)	3 hours
Special Topics (SSE 6932)	6 hours
Concentration (Courses taken in the College of Arts and Sciences)	18 hours
Comprehensive examination	

Plan II inactive.

COURSES

See
http://www.coedu.usf.edu/main/departments/seced/SocialS/sseMA1choices.html

SOCIAL SCIENCE EDUCATION PROGRAM

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 39
Program Level: Masters
CIP Code: 13.1317
Dept Code: EDI
Program (Major/College): TSS ED

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The MAT degree is for individuals with a bachelor's degree in a field other than education who wish to become certified teachers in social science at the middle or senior high school level. This program leads to teaching certification in grade 6-12 social sciences as part of the master's degree program. For the general program structure, admission and program requirements, refer to the College of Education listing or contact the program.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools and the National Council for the Social Studies.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 in upper division coursework in the Baccalaureate degree
2. CLAST or GKT
3. Graduate coursework may be allowed in lieu of GPA

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study	**39 hours** Minimum
Process Core	24 hours
Current Trends in Social Science Education (SSE 6636)	3 hours
Special Topics (SSE 6932	6 hours
Internship	6 hours
Comprehensive Examination	

Consult the Program website, www.coedu.usf.edu/main/departments/seced/SocoalS/SSEhome.html, or the program's coordinator for specific requirements.

COURSES

See http://www.coedu.usf.edu/main/departments/seced/SocialS/MATsse.html

SOCIAL SCIENCE EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Social Science Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CSO

CONTACT INFORMATION

College: Education
Department: Secondary Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
This program is designed for professionals who have at least two years of relevant experience in the field, typically, teachers certified in social science education with a baccalaureate degree from a College of Education. Within the M.Ed. framework, the degree is an individually planned program based on a student's background and professional goals. Contact the program coordinator for more information.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools and the National Council for the Social Studies.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements for all applicants include:

1. Minimum GPA of 3.0 upper division undergraduate coursework
2. Proof of 2 years of relevant educational or professional experience as judged by program faculty
3. Proof of teaching certification
4. Graduate coursework may be allowed in lieu of GPA or GRE requirement

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

Program of Study: **33 hours min**.

Process Core	15 hours
Specialization	9 hours
COE Electives	9 hours
Comprehensive Exam	

Consult the Program website, www.coedu.usf.edu/main/departments/seced/SocailS/SSEhome.html , or the program's coordinator for specific requirements.

COURSES

See http://www.coedu.usf.edu/main/departments/seced/SocialS/sseMEdchoices.html

SPECIAL EDUCATION, BEHAVIOR DISORDERS PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1005
Dept Code: EDS
Program (Major/College): ABD ED

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Master's Programs in the Department of Special Education prepare special education teacher leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education.) The program is designed to ensure that all graduates are prepared to be reflective practitioners, able to evaluate and continuously learn from their own teaching; collaborative professionals who affirm diversity; knowledgeable of theory and research; and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so that students can maintain full-time employment while pursuing their degrees through traditional, web-enhanced and on-line course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field application..

Accreditation: Accredited by the Commission on Colleges and Schools of the Southern Association of College and Schools and the National Coouncil for the Accreditation of Teacher Education (NCATE)..

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, programs require earned degrees from regionally accredited institutions or an international equivalent.

Other Requirements include:

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university, or its international equivalent.
2. Scholastic evidence to successfully perform in the academic program, as indicated by one of the following:
   a. An earned graduate degree from a regionally accredited college or university.
   b. A minimum GPA for 3.0 on a 4.0 scale in upper division undergraduate coursework.
   c. The following minimum GRE scores:

Verbal	430
Quantitative	470
Analytical Writing	4

3. A Professional Goals Statement that addresses why the candidate desires to pursue an MA degree in special education.
4. At least two (2) letters of recommendation from persons who have observed the candidate teach and/or work with children and youth.
5. Interview with the MA program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213

computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions.

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their programs of study.

Plan I - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education.

This program is delivered through a number of formats. Evening and on-line courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study: (36 hour minimum)
Process Core: (3 hours)
EDF 6481 Foundations of Educational Research

Special Education Program Core: (21 hours minimum)
EEX 6025 EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752
EEX 6248 EEX 6939
* Not required, if equivalent course taken
in undergraduate program.

Concentration: (9 hours)
Behavior Disorder course (3 hours)
EED 6215

Electives: (6 hours)
Elective coursework relevant to the student's concentration is required and must be aproved by the faculty advisor rior to registering for the course.

Comprehensive Examination: (3 hours) A project is required to fulfill the comprehensive examination requirement.
EEX 6943

Plan II – This program is **no longer offered**. See the M.A.T. in Varying Exceptionalities (Exceptional Student Education-ESE) to earn a graduate degree and certification in ESE and ESOL.
Plan III - This option is available for students who do not hold an undergraduate degree in special education. An interview is required for all students seeking admission to the Plan III Program. Contact student advisor to schedule..

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

SPECIAL EDUCATION, GIFTED PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1004
Dept Code: EDS
Program (Major/College): AGI ED

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Master's Program in Gifted Education (Plan I) provides advanced training for certified teachers to work with gifted and talented students and with other teachers on a consultant or collaborative basis. The courses for this program are offered through an on-line format, though some courses may be taken on campus. Emphasis is placed on developing specific skills in identification of gifted students; focusing on the characteristics and needs of special populations; assessing students' cognitive and affective strengths; modifying educational programs to develop gifted students' potential; and consulting with gifted students, their families, and teachers. This program qualifies students for the State of Florida Endorsement in Gifted Education.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. Courses stress field based experiences. Students provide their own transportation to practicum sites in K-12 education setting.

Accreditation: Accredited by the Commission on Colleges and Schools of the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Admissions Requirements include:

1. An earned bachelor's degree or its equivalent from a regionally accredited college or university
2. An undergraduate GPA of 3.0 on a 4.0 scale as an upper division student in a baccalaureate degree or the following GRE Scores:
   - Verbal: 550 or Analytical Writing: 3.5
   - Quantitative: 520
3. Evidence of successful teaching experiences (at least two years) in a K-12 school setting
4. Two letters of recommendation from administrators familiar with applicant's professional teaching experience and expertise
5. A statement of professional goals
6. Copy of professional teaching certificate (not a temporary certificate)
7. Evidence that applicant currently holds a teaching position in a K-12 setting

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions.

DEGREE PROGRAM REQUIREMENTS

EEX 6025 or EEX 4011 or EEX 4070 (prereqisite)

Program of Study: 36 hours
Process Core: (3 hours)– EDF 6481

Current Trends in Special Education: (3 hours)–
EEX 6939

Concentration: (24 hours)
Special Education Program Core: (3 hours)
EEX 6222

Concentration/Specialization Courses (21 hours)
EGI 5051 EGI 5325 EGI 6232 EGI 6936 EGI 6416 EGI 6943 (6 hours)

Electives: (6 hours)

Comprehensive Examination

For information on other options and requirements contact the program.

A **Graduate Certificate in Gifted Education** is also available. More information on this certificate program can be obtained in the certificate area of the catalog at: http://www.outreach.usf.edu/gradcerts/certinfo.asp?certname=GE The Graduate Certificate includes coursework required for the Florida Endorsement in Gifted Education (15 hours).

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

SPECIAL EDUCATION, MENTAL RETARDATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1006
Dept Code: EDS
Program (Major/College): AMR ED

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Master's Programs in the Department of Special Education prepare special education teacher leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education). The program is designed to ensure that all graduates are prepared to be reflective practitioners, able to evaluate and continuously learn from their own teaching; collaborative professionals who affirm diversity; knowledgeable of theory and research; and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so that students can maintain full-time employment while pursuing their degrees through traditional, web-enhanced and on-line course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field application.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools and the National Council for the Accreditatoin of Teacher Education (NCATE).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Requirements include:

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university, or its international equivalent.
2. Scholastic evidence to successfully perform in the academic program, as indicated by one of the following:
   a. An earned graduate degree from a regionally accredited college or university.
   b. A minimum GPA of 3.0 on a 4.0 scale in upper division undergraduate coursework.
   c. The following minimum GRE scores:

Verbal	430
Quantitative	470
Analytical Writing	4

3. A Professional Goals Statement that addresses why the candidate desires to pursue an MA degree in special education.
4. At least two (2) letters of recommendation from persons who have observed the candidate teach and/or work with children and youth
5. Interview with the MA program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of

transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their programs of study.

Plan I - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study: 36 hour minimum
Process Core: (3 hours)
EDF 6481 Foundations of Educational Research

Special Education Program Core: (21 hours minimum)
EEX 6025* EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752
EEX 6248 EEX 6939
* Not required, if equivalent course taken in undergraduate program.

Concentration: (9 hours)
Mental Retardation course (3 hours)
EMR 6053

Electives: (6 hours)
Elective coursework relevant to the concentration is required and must be aproved by the faculty advisor prior to registering for the course.

Comprehensive Examination: (3 hours) A project is required to fulfill the comprehensive examination requirement.
EEX 6943

Plan II - This program is **no longer offered**. See the M.A.T. in Varying Exceptionalities (Exceptional Student Education-ESE) to earn a graduate degree and certification in ESE and ESOL.

Plan III – This option is available for students who do not hold an undergraduate degree in special education. An interview is required for all students seeking admission to the Plan III Program. Contact student advisor to schedule.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SPECIAL EDUCATION, MOTOR DISABILITIES PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1001
Dept Code: EDS
Program (Major/College): AMD ED

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SPECIAL EDUCATION, SPECIFIC LEARNING DISABILITIES PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1011
Dept Code: EDS
Program (Major/College): ALD ED

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Master's Programs in the Department of Special Education prepare special education teacher leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education). The program is designed to ensure that all graduates are prepared to be reflective practitioners, able to evaluate and continuously learn from their own teaching; collaborative professionals who affirm diversity; knowledgeable of theory and research; and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so that students can maintain full-time employment while pursuing their degrees through traditional, web-enhanced and on-line course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field application.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Other requirements include:

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university, or its international equivalent.
2. Scholastic evidence to successfully perform in the academic program, as indicated by one of the following:
   a. An earned graduate degree from a regionally accredited college or university.
   b. A minimum GPA of 3.0 on a 4.0 scale in upper division undergraduate coursework.
   c. The following minimum GRE scores:

Verbal	430
Quantitative	470
Analytical Writing	4

3. A Professional Goals Statement that addresses why the candidate desires to pursue an MA degree in special education.
4. At least two (2) letters of recommendation from persons who have observed the candidate teach and/or work with children and youth.
5. Interview with the MA program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of

transcripts. For more information, please visit http://web.usf.edu/iac/admissions/

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

Plan I - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study: 36 hour minimum
Process Core: (3 hours)
EDF 6481 Foundataions of Educational Research

Special Education Program Core: (21 hours minimum)
EEX 6025* EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752
EEX 6248 EEX 6939
* Not required, if equivalent course taken in undergraduate program.

Concentration: (9 hours)
Specific Learning Disabilities course (3 hours)
ELD 6015

Electives:
Elective coursework relevant to the concentration is required and must be aproved by the faculty advisor prior to registering for the course.

Comprehensive Examination: (3 hours) A project is required to fulfill the comprehensive examination requirement.
EEX 6943

Plan II - This program is **no longer offered**. See the M.A.T. in Varying Exceptionalities (Exceptional Student Education-ESE) to earn a graduate degree and certification in ESE and ESOL.

Plan III – This option is available for students who do not hold an undergraduate degree in special education. An interview is required for all students seeking admission to the Plan III Program. Contact Student Advisor to schedule.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SPECIAL EDUCATION, VARYING EXCEPTIONALITIES (ESE) PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1001
Dept Code: EDS
Program (Major/College): AVE ED

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Master's Programs in the Department of Special Education prepare special education teacher leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education). The program is designed to ensure that all graduates are prepared to be reflective practitioners, able to evaluate and continuously learn from their own teaching; collaborative professionals who affirm diversity; knowledgeable of theory and research; and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so that students can maintain full-time employment while pursuing their degrees through traditional, web-enhanced and on-line course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field application.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Other requirements include:

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university, or its international equivalent.
2. Scholastic evidence to successfully perform in the academic program, as indicated by one of the following:
   a. An earned graduate degree from a regionally accredited college or university.
   b. A minimum GPA of 3.0 on a 4.0 scale in upper division undergraduate coursework.
   c. The following minimum GRE scores:

Verbal	430
Quantitative	470
Analytical Writing	4

3. A Professional Goals Statement that addresses why the candidate desires to pursue an MA degree in special education.
4. At least two (2) letters of recommendation from persons who have observed the candidate teach and/or work with children and youth.
5. Interview with the MA program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of

transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

Plan I - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study: 36 hour minimum
Process Core: (3 hours)
EDF 6481 Foundations of Educational Research

Special Education Program Core: (21 hours minimum)
EEX 6025* EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752
EEX 6248 EEX 6939
* Not required, if equivalent course taken in undergraduate program.

Concentration: (9 hours)
Varying Exceptionalities courses
EED 6215 ELD 6015 EMR 6052

Comprehensive Examination: (3 hours) A project is required to fulfill the comprehensive examination requirement.
EEX 6943

Plan III – This option is available for students who do not hold an undergraduate degree in special education. An interview is required for all students seeking admission to the Plan III Program. Contact Student Advisor to schedule.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SPECIAL EDUCATION, VARYING EXCEPTIONALITIES (ESE) PROGRAM

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36-48
Program Level: Masters
CIP Code: 13.1001
Dept Code: EDS
Program (Major/College): TVE ED

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Program Description
The Master of Arts in Teaching/ESOL (M.A.T.) is a new graduate program in special education at the University of South Florida. This program will lead to an M.A.T. in Varying Exceptionalities (ESE)/ESOL and teacher certification. This program requires 36-48 credit hours. Although this program is specifically designed for employed out-of-field teachers in special education who do not hold a professional certificate in teaching, this program of studies can be adjusted to allow students who are certified in elementary and secondary education to participate in the program. Preference will be given to those students who do not hold a professional teaching certificate. Students will be admitted each semester and matriculate as members of a cohort. A new M.A.T. cohort is seated each June.

Students in the M.A.T. Program benefit from an Integrated Curriculum taught in six-hour blocks; on-site mentors who are master teachers within the district that provide one-on-one mentoring for each program participant; and accelerated delivery of course content which allows for completion of the degree in two summers and three academic semesters. All students are required to conduct research in their classrooms, investigating how they may use more effectively research-based interventions. This requires that students link theory and practice and encourages an inquiring approach to teaching.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Admission Requirements:

1. An earned baccalaureate or its equivalent from a regionally accredited college or university (or its international equivalent) with a minimum GPA of 2.5.

2. Evidence of ability to perform successfully in the academic program as indicated by **one** of the following:
   a. An earned graduate degree from a regionally accredited college or university or its international equivalent
   b. A minimum GPA of 3.0 on a 4.0 scale in upper division undergraduate coursework.
   c. The following minimum GRE scores: 430 Verbal; 470 Quantitative; and 4 Analytical Writing.

3. Evidence of passing scores on all portions of the CLAST or General Knowledge Test.

4. A letter of application that addresses why the candidate desires to pursue a MAT degree in special education.

5. At least two letters of recommendation, preferably from a person who has observed the candidate teach and/or work with children or youth and the other from an administrator or supervisor.

6. Interview with the MAT program faculty.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS

Includes:

EEX 6051 Creating Positive Learning Environments for Students with Disabilities (6)

RED 6510 The Reading Process in the Elementary School (3)

EDF 6122 Psychological Foundations of Education (3)

FLE 5430 Theory and Practice of Teaching English Language Learners (3)

EEX 6225 Developing Individualized Educational Programs for students with Disabilities (6)

MAE 4310 Teach Elementary Math (3)

EEX 6253 Implementing and Evaluating Individualized Programs for Students with Disabilities (6)

RED 6544 Remediation of Comprehension Problems (3)

EDF 6432 Foundations of Measurement (3)

FLE 5431 Second Language Acquisition and Literacy in Children and Adolescents (3)

EDG 6947 Internship and Classroom Research (6)

FLE 5432 Language Principles, Acquisition, and Assessment for Teaching English Language Learners (3)

The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) ESOL 1, 2, and 3, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in ESOL 1; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a series of weeks; and (4) an ESOL folder, containing all assignments and test results from ESOL 1, 2, and 3.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

SPECIAL EDUCATION, BEHAVIOR DISORDERS CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Special Education, Behavior Disorders

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CBD

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SPECIAL EDUCATION, GIFTED CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Special Education, Gifted

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CGI

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SPECIAL EDUCATION, MENTAL RETARDATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Special Education, Mental Retardation

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions.

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CMR

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SPECIAL EDUCATION, MOTOR DISABILITIES CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Special Education, Motor Disabilities

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CMD

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SPECIAL EDUCATION, SPECIFIC LEARNING DISABILITIES CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Special Education, Specific Learning Disabilities

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CLD

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SPECIAL EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program
With a concentration in Special Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 36
Program Level: Specialist
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: SSE

CONTACT INFORMATION

College: Education
Department: Special Education

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

SPECIAL EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Special Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	DSE

CONTACT INFORMATION

College:	Education
Department:	Special Education
Contact Information:	www.grad.usf.edu

PROGRAM INFORMATION

Program Description
The doctoral program in special education focuses on urban special education and university-school partnerships in preparing researchers, teacher educators, and school leaders. Graduates of the program will have knowledge of the research and philosophical foundations of special education policies and practices; an informed perspective on the ethical issues in the interactions of race, ethnicity, social class and gender with the nature and quality of special education policies, research, teacher education and services; knowledge and skills in the design, implementation and maintenance of university-school partnerships; an interdisciplinary grounding in and respect for multiple genres and methods of inquiry; the ability to conceptualize, plan and conduct research; and the ability to value the conceptual and analytical skills of a scholar. The Department emphasizes interdisciplinary research and development. Faculty members in several departments have joint appointments in special education.

After admission to a program, the student will be assigned a doctoral program advisor who will assist in identifying a major professor.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

All students applying for admission to the doctoral program in the Department of Special Education must meet the USF admission requirements. In addition, the Department of Special Education has the following admission requirements.

Requirements for all applicants:

1. Have a master's or educational specialist's degree, or equivalent, from a regionally accredited college or university (or international equivalent).
2. Have earned a GPA of at least 3.0 on a 4.0 scale in upper division undergraduate coursework, or a minimum GPA of 3.5 on a 4.0 scale in graduate coursework.
3. Have submitted official Graduate Record Examination (GRE).
4. Provide three letters of recommendation from professionals who are familiar with their scholarship and work history.
5. Provide evidence of at least three years of successful work experience in relevant professional roles.
6. Present self professionally in an oral interview with two or more faculty members.
7. Demonstrate the ability to write professionally by submitting a spontaneous writing sample at the time of the interview.
8. Provide a statement of professional goals (immediate, intermediate, and long term) and research interests. Professional goals and research interests should be

compatible with the opportunities provided through a doctoral degree in special education.

9. Receive endorsement by the majority of tenured and tenure-earning faculty members in the department.

For international applicants: Applicants whose native language is not English or who have not earned a degree in the U.S. must, according to university policy, submit a TOEFL score (minimum of 500 paper-based, 213 computer-based, or 80 internet-based test). See http://web.usf.edu/iac/admissions/language.html. for further clarification and possible exemptions. Please check with program regarding the policy on evaluation of transcripts. For more information, please visit http://web.usf.edu/iac/admissions

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm

SPECIAL EDUCATION CONCENTRATION

Doctor of Education (Ed.D.) Degree in the Educational Program Development Program with a concentration in Administration of Special Education

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DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 76-82
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): EPD ED
Concentration Code: ESE

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu

Currently, no students are being admitted to this program.

STUDENT AFFAIRS ADMINISTRATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program
With a concentration in Student Affairs Administration

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 75-81
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DSA

CONTACT INFORMATION

College: Education
Department: Psychological and Social Foundations

Contact Information: www.grad.usf.edu

Currently, no students are being admitted to this program.

TEACHING AND LEARNING IN THE CONTENT AREA: GENERAL EDUCATION CONCENTRATION

Doctor of Philosophy (Ph.D.) Degree in the Curriculum and Instruction Program With a Concentration in Teaching and Learning in the Content Area: General Education

DEGREE INFORMATION

Program Admission Deadlines:
Refer to individual concentration areas for information on deadlines

Minimum Total Hours: 73-85
Program Level: Doctoral
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: DTL

CONTACT INFORMATION

College: Education

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Curriculum and Instruction degree is only offered in conjunction with a concentration area in Teaching and Learning in the Content Area: General Education. Concentrations are available in the following major concentrations areas:

English Education
Mathematics Education
Science Education
Social Science Education

Each program is highly individualized. Candidates' programs are planned with the approval of a faculty committee based upon previous experience and future goals.

Program Description
Refer to each of the individual concentration areas.

English Education
Contact: Dr. Jane Applegate
(applegat@tempest.coedu.usf.edu)
Web Address:
http://www.coedu.usf.edu/main/department/seced/English/Engdoc.htm

Mathematics Education
Contact: Dr. Gladis Kersaint
(kersaint@tempest.coedu.usf.edu)
Web Address:
http://www.coedu.usf.edu/main/department/seced/math.math.htm

Science Education
Contact: Dr. Dana L. Zeidler (zeidler@coedu.usf.edu)
Web Address:
http://www.coedu.usf.edu/main/departments/seced/science/SCEdoc.htm

Social Science Education
Contact: Dr. Michael J. Berson
(berson@tempest.coedu.usf.edu)
Web Address:
http://www.coedu.usf.edu/main/departments/seced/SocialS/ssePhDchoices.html

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas: Information available by accessing the concentration areas, listed above.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below. Refer to each concentration area for program admission requirements or contact the program coordinator for assistance.

PROGRAM DEGREE REQUIREMENTS

General Program Requirements for the Curriculum and Instruction degree, (minimum requirements):

Program of Study –	73-85 hours minimum
Concentration -	18-24 hours minimum
Curriculum and Instruction -	3 hours
Cognate Area -	12 hours minimum
Statistics/Measurement/Research Design -	16-20 hours
Psychological and Social Foundations -	6-8 hours
Dissertation -	18 hours

Dissertation- Beginning with the semester immediately following admission to candidacy, the student must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. Students may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. Students may elect not to register for dissertation hours during the summer semester if in this two-year period they are not using university facilities or other USF resources, including faculty and staff time. If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is not completed by the time the 18 hours of dissertation credit have been accrued, students must enroll continuously, including Summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final submission of the dissertation is made to the Graduate School).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified may result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required by the University or the Graduate School.

Residency- Students must enroll for at least nine hours in each of two semesters in a 12-month period. The Ph.D. program requires that during the residency period, students may be employed no more than half-time. Individual programs may have additional residency requirements.

Doctoral Qualifying Examination - Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, www.coedu.usf.edu, click on information; also consult Faculty Program contact).

Individual areas of concentration may have variations in the requirements. For information contact the department/program offering the specialization of interest.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES

See concentration area website listed above.

THEATRE EDUCATION CONCENTRATION

Master of Education (M.Ed.) Degree in the Curriculum and Instruction Program
With a concentration in Theatre Education

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.0301
Dept Code: CNI
Program (Major/College): CUR ED
Concentration Code: CTE

CONTACT INFORMATION

College: Education
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, no students are being admitted to this program.

VOCATIONAL EDUCATION CONCENTRATION

Education Specialist (Ed.S.) Degree in the Curriculum and Instruction Program
With a concentration in Vocational Education

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	36
Program Level:	Specialist
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	CUR ED
Concentration Code:	SVO

CONTACT INFORMATION

College:	Education
Department:	
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

Students are considered for this degree on a case by case basis. Please contact the Program Coordinator prior to applying.

VOCATIONAL EDUCATION CONCENTRATION

Doctor of Education (Ed.D.) Degree in the Educational Program Development Program
With a concentration in Career and Workforce Education

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours:	75-81
Program Level:	Doctoral
CIP Code:	13.0301
Dept Code:	CNI
Program (Major/College):	EPD ED
Concentration Code:	EVO

CONTACT INFORMATION

College:	Education
Department:	
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

Students are considered for this degree on a case by case basis. Please contact the program coordinator prior to applying.

Section 18

College of Education
USF St. Petersburg

USF St. Petersburg
College of Education
140 Seventh Avenue South - COQ 201
St. Petersburg, FL 33701

Web address:
http://www.stpt.usf.edu/coe/index.htm

Phone: 727-873-4155
Fax: 727-873-4191
Email: walkerj@stpt.usf.edu

College Dean: Vivian Fueyo

Accreditation:
Commission on Colleges, Southern Association of Colleges and Schools, National Council for Accreditation of Teacher Education.

Mission Statement:
The College of Education at USF St. Petersburg offers graduate and undergraduate degree programs recognized for accomplishing defined learning outcomes, supported by a foundation of applied research, and committed to meeting the needs of the community and the students it serves. In pursuit of this mission, faculty in the College of Education are guided by a respect for evidence, creating and extending knowledge by supporting research, and by the pursuit of scholarship. The College of Education seeks to prepare exemplary teachers and other educational personnel for roles in a diverse and changing society. It promotes life long learning , is committed to stewardship that reflects the ethics of community responsibility, and continually strives to meet the educational needs of all learners.

Major Research Areas:
See individual programs.

Types of Degrees Offered:
Master of Arts (M.A.)
Master of Arts in Teaching (M.A.T.)
Master of Education (M.Ed.)

Name of Programs Offered:
Educational Leadership (M.Ed.)
Elementary Education (M.A.)
English Education (M.A.)
Reading Education (M.A.)
Special Education, Varying Exceptionalities (M.A., M.A.T.)

Concentrations:
Elementary Education
Science and Mathematics

Dual Tracks:
Elementary Education /ESOL

Graduate Certificates Offered:
n/a

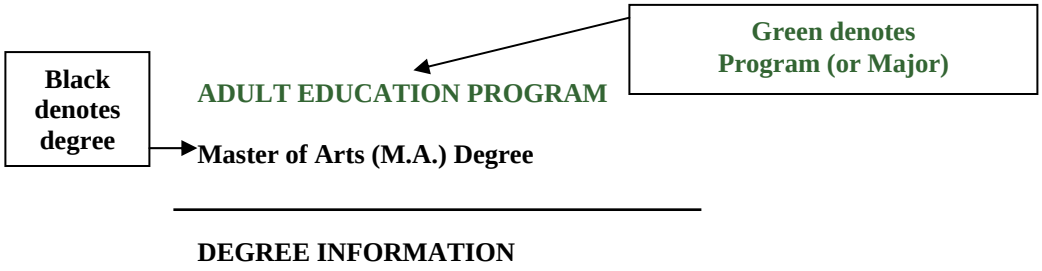
COLLEGE REQUIREMENTS

Contact college for information.

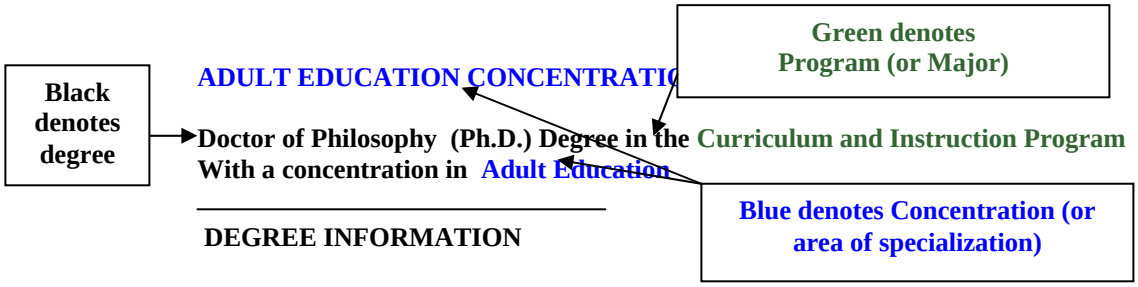
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

EDUCATIONAL LEADERSHIP PROGRAM AT USF ST. PETERSBURG

Master of Education (M.Ed.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.0401
Dept Code: LEA
Program (Major/College): CAS EP

CONTACT INFORMATION

College: Education at St. Petersburg

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The *Leadership for Results* program at USF St. Petersburg brings together faculty expertise in educational leadership development and the latest research on standards-based leadership to create a model program for preparing school leaders who can drive the instructional improvement agendas in schools. The program is designed to prepare instructional leaders to be change agents and problem solvers focused on action leadership to improve student learning. The curriculum is grounded in the research on best practices and critical inquiry emphasizing rich and varied field experiences, active coaching and mentoring by practicing administrators, and standards based outcome assessment to ensure success in building the requisite skills and knowledge that will enable graduates to have a positive impact on schools. In partnership with local school divisions, this program emphasizes pairs experienced and less experienced leaders in a junior-colleague mentorship model that serves as a pipeline for the continual preparation of educational leaders for Florida's school districts.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) and the National Council for Accreditation of Teacher Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Applicants must satisfy the following:

A. Present satisfactory evidence of a bachelor's degree or equivalent from a regionally accredited institution.
B. Hold a professional teaching certificate.
C. Have completed at least two years of teaching.
D. Meet at least one of the following:
   a. Shall have earned a graduate degree from a regionally accredited institution, or
   b. Shall have earned a "B" (3.0 on a 4.0 scale) or better in all work attempted while registered as an upper division student working for a baccalaureate degree, or
   c. Shall have a GRE General Test score.

The applicant is expected to provide a letter of application, three letters of professional reference, and a copy of his/her teaching certificate at the time of application.

DEGREE PROGRAM REQUIREMENTS

Required Courses in Sequence

Area A:

EDA 6061	Principles of Education Administration	3
EDG 6931	Technology and Data Analysis	3
EDG 6627	Foundations of Curriculum and Instruction	3
EDF 6492	Applied Educational Program Evaluation	3

Area B:

EDG 6285	School Curriculum Improvement	3
EDA 6232	School Law	3
EDS 6050	Principles & Practices of Educational Supervision	3
EDA 6242	School Finance	3

Area C:

EDA 6106	Administrative Analysis and Change	3
EDA 6503	The Principalship	3
EDA 6192	Educational Leadership	3
EDA 6945	Administrative Practicum	3
	Total credit hours	36

Outcome Assessment Portfolio
Students will create a portfolio developed from performance tasks across all courses in the program of study. Program faculty will evaluate the portfolio. Satisfactory completion of the portfolio is a degree requirement.

COURSES: http://www.ugs.usf.edu/sab/sabs.cfm

ELEMENTARY EDUCATION PROGRAM AT USF ST. PETERSBURG

Master of Arts (M.A.) Degree in the Elementary Education Program With a concentration in Science and Mathematics

DEGREE INFORMATION

This is a concentration offered under the M.A. degree in the Elementary Education Program and is only offered at USF St. Petersburg.

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours:	31
Program Level:	Masters
CIP Code:	13.1202
Dept Code:	EDR
Program (Major/College):	AEE EP
Concentration Code:	MSM

CONTACT INFORMATION

College:	Education at St. Petersburg
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

This program is intended for certified, practicing elementary classroom teachers who have a strong interest in, and preparation for, teaching K-5 mathematics and science. We hope to prepare elementary teachers for leadership roles in mathematics and science in their respective schools and districts.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) and the National Council for Accreditation of Teacher Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Applicants must have at least a 2.5 GPA for their four-year undergraduate degree and for the last two years of their undergraduate degree. In addition, applicants must have a 3.0 GPA or higher for the last two years of their undergraduate degree; a GRE score

DEGREE PROGRAM REQUIREMENTS

Program of Study
Core Courses (13 credit hours)

EDF 6481	Foundations of Educational Research	3
EDF 6120	Child Development	4
or		
EDF 6215	Learning Principles Applied to Instruction	4
EDG 6931	Current Trends in Math/Science Assessment	3
EDG 6935	Seminar in Curriculum Research	3

Emphasis Courses (18 credit hours)*
*Currently, Pinellas County School District pays the tuition for five of the six emphasis courses in this program for its practicing teachers. This practice is dependent upon annual funding.

EDG 6931	Problem Solving for Elementary Teachers	3
EDG 3931	Geometry for Elementary Teachers	3
EDG 6931	Algebraic Thinking for Elementary Teachers	3
SCE 6616	Trends in Science Education	3
SCE 5937	Selected Topics in Life Science	3
SCE 5937	Selected Topics in Physical/Earth Science Education	3

Total Hours: 31

ELEMENTARY EDUCATION PROGRAM AT USF ST. PETERSBURG

Master of Arts (M.A.) Degree in the Elementary Education Program With an Application Track for ESOL (Dual Track)

DEGREE INFORMATION

This is an application track offered under the M.A. degree in the Elementary Education Program and is only offered at USF St. Petersburg.

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 64
Program Level: Masters
CIP Code: 13.1202
Dept Code: EDR
Program (Major/College): AEE EP

CONTACT INFORMATION

College: Education at St. Petersburg

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This program is for those who hold a bachelor's degree in a field outside of education who want to become an elementary teacher (grades K-6). Completion of the entire program (coursework and internships) leads to initial certification in Elementary Education with ESOL endorsement and a Master of Arts degree in Elementary Education.

Editor's Note: "Concentrations" are official and approved areas of study that are noted on the transcript; "Application Tracks" are informal areas of study, but are not noted on the transcript.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) and the National Council for Accreditation of Teacher Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Successful completion of all portions of the CLAST, or the Praxis I, or the General Knowledge Test, or a GRE score. The General Knowledge Test is recommended if none have been taken.
2. At least a 2.5 grade point average for the four-year undergraduate degree, and for the upper-level courses of the undergraduate degree.
3. At least a 3.0 grade point average for the upper-level courses of the undergraduate degree.
4. OR a score of 1000 or greater on the combined verbal and quantitative portions of the Graduate Record Exam (GRE).

DEGREE PROGRAM REQUIREMENTS

Program of Study

RED 4310	Early Literacy Learning	(3)
EDF 6120	Child Development	(4)
FLE 5345	Teaching ELLs K-12	(3)
MAE 4310	Teaching Elementary School Mathematics I	(3)
EEX 4070	Integrating Exceptional Students in the Regular Classroom	(3)
EDE 4301	Classroom Management, Safety, Ethics, School Law	(3)
EDF 4430	Measurement	(3)
EDF 3604	Social Foundations of Education	(3)
EDE 4223	Creative Experiences for the Child	(3)
HLP 4722	Health and Physical Education for the Child	(2)
MAE 4326	Teaching Elementary School Mathematics II	(3)
SCE 4310	Teaching Elementary Science	(3)
SSE 4313	Teaching Elementary Social Studies	(3)
FLS 5145	Language Principals, Acquisition and Teaching	(3)
LAE 6316	Literature in a Diverse Society	(3)
LAE 6616	Trends in Language Arts	(3)
RED 6544	Cognition, Comprehension, Remediation, And Content Area Reading	(3)
EDG 6931	Practicum in Elementary Education	(3)
EDF 6481	Foundations of Educational Research	(3)

FLE 5940	ESOL Practicum	(1)
EDG 6947	Final Internship	(6)
Total hours		64

Comprehensive Exam
Certification Exams: General Knowledge Test, Elementary Education
K-6, Professional Education

At graduation all credits used to satisfy requirements for the Master's Degree must have been completed within 7 academic years. Courses taken in lieu of those listed here must be approved in writing by the program, and the College of Education's Graduate Studies Office.

ENGLISH EDUCATION PROGRAM AT USF ST. PETERSBURG

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 13.1305
Dept Code: EDI
Program (Major/College): AEN JP

CONTACT INFORMATION

College: Education at St. Petersburg

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This program is designed for fully certified teachers of English and meets state requirements to teach at the Community College level.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) and the National Council for Accreditation of Teacher Education (NCATE).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Applicants must have at least a 2.5 grade point average for their four-year undergraduate degree, and for the last two years of their undergraduate degree.

A GRE score. Applicants with a grade point average of 3.0 or greater for the last two years of their undergraduate degree need not submit GRE scores.

DEGREE PROGRAM REQUIREMENTS

Select one of the following:

EDF 6432	Foundations Measurement	(3)
OR		
EDF 6481	Foundations of Educational Research	(3)
AND		
LAE 6637	Current Trends in English Education	(3)
18 Hours of Graduate (6000 level) English Electives		(18)
9 Hours of Graduate Electives in Education from Approved List of Elective Courses		(9)
Comprehensive Examination		
Total Hours		33

COURSES: http://www.ugs.usf.edu/sab/sabs.cfm

READING EDUCATION PROGRAM AT USF ST. PETERSBURG

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1305
Dept Code: EDR
Program (Major/College): ARD EP

CONTACT INFORMATION

College: Education at St. Petersburg

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Reading Education Program is designed to prepare teachers, clinicians, supervisors, directors and coordinators of reading for school systems. The program provides an in-depth view of reading research, theories, and the application of theory to classroom teaching. Methods and theories studies in the program are based on sound and current scientific research. Successful completion on all sections of the CLAST (prior to June 30, 2002), or the General Knowledge Test, or a Florida Professional Educator Certificate is an entrance requirement for this program. Successful completion of the Professional Education exam or a Florida Professional Educator Certificate is necessary for certification.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) and the National Council for Accreditation of Teacher Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Applicants must have at least a 2.5 grade point average for the last two years of their undergraduate degree.
A GRE score. Applicants with a grade point average of 3.0 or greater for the upper-level undergraduate courses need not submit GRE scores.

Successful completion of all portions of the CLAST taken before July 2002, General Knowledge test after July 2002 or a GRE score of 1000 or greater.

DEGREE PROGRAM REQUIREMENTS

For certified students (Elementary, ESE or Early Childhood) Undergraduate Pre-or Co-requisites:

RED 4310	Reading and Learning to Read	(3)
RED 4511	Linking Literacy Assessment to Instruction	(3)
LAE 4414	Literature in Childhood Education	(3)
Or		
LAE 6415	Literature and the Learner	(3)

Process Core:

EDF 6481	Foundations of Educational Research	(3)

Current Trends in Specialization:

LAE 6316	Trends in Literature in a Diverse Society	(3)

Content Specialization:

RED 6545	Issues in Vocabulary and Word Study	(3)
RED 6116	Current Trends in Elementary Reading Instruction	(3)
LAE 6315	Writing and Writers: Trends and Issues	(3)
RED 6544	Cognition, Comprehension and Content Area Reading: Remediation of Reading Problems	(3)
RED 6247	District and School Level Supervision in Reading	(3)
RED 6540	Assessment in Literacy	(3)
RED 6846	Practicum in Reading	(3)
RED 6449	Literacy and Technology	(3)
EDG 6935	Seminar in Curriculum Research	(3)

ESOL:

FLE 5345	Teaching ELLs K-12	(3)
Total hours		45

For certified students (Secondary):

Same as above plus 12 hours of Process Core:		
EDF 6481	Foundations of Educational Research	(3)
EDF 4430	Tests and Measurement	(3)
EDF 3122	Learning and the Developing Child	(3)
Or		
EDF 3214	Human Development and Learning	(3)
EDF 3604	Social Foundations of Education	(3)
Total hours		54

For non-certified students:

Same as above (for Secondary) plus:		
EDG 6947	Internship	(3)
Total hours		60

COURSES: http://www.ugs.usf.edu/sab/sabs.cfm

EXCEPTIONAL STUDENT EDUCATION PROGRAM AT USF ST. PETERSBURG

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 13.1001
Dept Code: EDS
Program (Major/College): AVE EP

CONTACT INFORMATION

College: Education at St. Petersburg

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.A. in Special Education, Varying Exceptionalities is one of two degrees received upon completion the Teacher for All Children (TAC) Program.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) and the National Council for Accreditation of Teacher Education (NCATE).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Contact the academic program advisor for the Teacher for All Children (TAC) program.

DEGREE PROGRAM REQUIREMENTS

EMR 6052	Advanced Theories and Practices in Mental Retardation	(3)
ELD 6015	Advanced Theories and Practices in Specific Learning Disabilities	(3)
EED 6215	Advanced Theories and Practices in Behavior Disorders	(3)
EEX 6943	Practicum	variable
EEX6248	Instructional Approaches for Exceptional Students	(3)
EEX 5752	Working with Families: A Pluralistic Perspective	(3)
EEX 6939	Advanced Seminar in Special Education	(3)
EEX 6732	Consultation and Collaboration in Special Education	(3)
EDF 6481	Foundations of Education Research	(3)
EEX 6245	Transitional Programming for Adolescents and Adult Exceptional Students	(3)
EEX 6222	Advanced Psychoeducational Assessment of Exceptional Students	(3)
EEX 6612	Management and Motivational Strategies	(3)

Total Hours 33 plus variable credit practicum

COURSES:
http://www.ugs.usf.edu/sab/sabs.cfm

EXCEPTIONAL STUDENT EDUCATION PROGRAM AT USF ST. PETERSBURG

Master of Arts in Teaching (M.A.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36-48
Program Level: Masters
CIP Code: 13.1001
Dept Code: EDS
Program (Major/College): TVE EP

CONTACT INFORMATION

College: Education at St. Petersburg

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This program will lead to a MAT degree and certification in Exceptional Student Education as well as ESOL endorsement. Although this program is specifically designed for those who do not hold a professional certificate in teaching, the program can be adjusted to allow those students who are certified in elementary and secondary education to complete the degree and receive Exceptional Student Education certification. The MAT in Special Education is highlighted by:

An Integrated Curriculum: The MAT curriculum will be introduced, taught, and mastered in a series of instructional blocks that integrate content in a spiraling manner.

An accelerated pace where in the program may be completed in 2 summers and 3 academic semesters.
Action Research: Where students investigate how they may more effectively use research-based interventions, link theory and practice, and develop an inquiring approach to teaching.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) and the National Council for Accreditation of Teacher Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university.

2. Evidence of ability to perform successfully in the academic program, as indicated by one of the following:

3.
   a. An earned graduate degree from a regionally accredited college or university, or

   b. An undergraduate GPA of 3.0 or higher in all work attempted while registered as an upper division student working on a baccalaureate degree, or

   c. A GRE score or

   d. Exceptions may be considered by department faculty committee.

4. Successful completion of all portions of the CLAST, or the Praxis I, or the General Knowledge Test, or a GRE score of 1000 or higher. General Knowledge Test is recommended if none of the above has been taken.

5. A letter of application that addresses why the candidate desires to pursue a master's degree in special education.

6. At least two (2) letters of recommendation, one from a person who has seen the candidate teach and/or work with children and you and the other from an administrator or supervisor.

7. In addition to the above criteria the student must have a cumulative GPA in the baccalaureate degree of at least a 2.50.

DEGREE PROGRAM REQUIREMENTS

EEX 6051	Creating Positive Learning Environment for Students with Disabilities	(6)
EEX 6225	Developing Individualized Education Programs for Students with Disabilities (Prerequisite: EEX 6051)	(6)
EEX 6253	Implementing and Evaluating Program For Students with Disabilities (Prerequisites EEX 6051, EEX 6225)	(6)
RED 6510	Reading Process in the Elementary School	(3)

Or

RED 5147	Foundations of Developmental Reading	(3)
MAE 6117	Math Methods	(3)

Or

EDG 6931	Teaching Elementary Math	(3)
FLE 5430	ESOL I, Theory and Practice of Teaching English Lang.	(3)
EDF 6211	Psychological Foundations of Education	(3)

Or

EDF 6120	Child Development	(4)

Or

EDF 6215	Advanced Theories and Practices in Behavior Disorders	(3)
EDF 6432	Foundations of Measurement	(3)

Or

EDG 6931	Current Trends in Assessment	(3)
RED 6544	Remediation of Comprehension Problems Prerequisite: RED 6510	(3)
EEX 6947	Internship and Classroom Research Prerequisites: EEX 6051, EEX 6225, EEX 6253	(6)
FLE 5435	Teaching ELLs K-12: Theory to Practice	(3)
FLE 5145	Language Principles Acquisition and Teaching Prerequisite: FLE 5345	(3)
FLE 5940	ESOL Practicum Prerequisites: FLE 5345, FLE 5145	(1)

Total Hours 36-48 varied

COURSES: http://www.ugs.usf.edu/sab/sabs.cfm

Section 19

College of Engineering

University of South Florida
College of Engineering
4202 E. Fowler Ave ENB118
Tampa, FL 33620

Web address: http://www2.eng.usf.edu/

Phone: 813-974-3780
Fax: 813-974-5094
Email: n/a

Interim College Dean: Sunil Saigal
Associate Dean: Rafael Perez

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools. Contact College for additional accreditation information

Mission Statement:
The mission of the USF College of Engineering is to continuously aspire to excellence in teaching, research and public service. The College values academic excellence, professionalism, ethics, and cultural diversity among its students, staff, and faculty. The College is committed to addressing the needs of our constituencies and gives careful consideration to the urban and suburban populations in our immediate service area. At the undergraduate level, the college is committed to provide students with a strong, broad-based, fundamental engineering education as preparation for careers in industry in a global environment, and government, or as preparation for advanced studies in professional schools of engineering, science, law, business, and medicine. At the graduate level, students working in close collaboration with faculty, pursue advanced topics within their disciplines that will result in advancements in their professions and society at large. Utilizing the expertise of its individual and collective faculty, the College is dedicated to the development of new fundamental knowledge, processes or procedures through research, which will benefit all humanity. The College promotes multi-disciplinary approaches, commitment to life-long learning, and awareness of societal issues, which are requisite for meeting technological challenges. The College provides technical assistance and technology transfer to the region, state and nation. In all facets of teaching, research and service, the College emphasizes close liaison with industry and government to provide students and faculty with the skills and perspectives needed to ensure effective technological leadership.

Major Research Areas:
Contact the College for information.

Degrees Offered:
See individual listings for current active status

Master of Chemical Engineering (M.C.H.E.)
Master of Civil Engineering (M.C.E.)
Master of Engineering (M.E.)
Master of Environmental Engineering (M.E.E.)
Master of Industrial Engineering (M.I.E.)
Master of Mechanical Engineering (M.M.E.)
Master of Science in Biomedical Engineering (M.S.B.E.)
Master of Science in Chemical Engineering (M.S.C.H.)
Master of Science in Civil Engineering (M.C.E.)
Master of Science in Computer Engineering (M.S.C.P.)
Master of Science in Computer Science (M.S.C.S.)
Master of Science in Electrical Engineering (M.S.E.E.)
Master of Science in Engineering (M.S.E.)

Master of Science in Engineering Management (M.S.E.M.
Master of Science in Engineering Science (M.S.E.S.)
Master of Science in Environmental Engineering (M.S.E.V.)
Master of Science in Industrial Engineering (M.S.I.E.)
Master of Science in Mechanical Engineering (M.S.M.E.)

Doctor of Philosophy (Ph.D.)

Programs Offered:
See individual listings for current active status

Master of Chemical Engineering (M.C.H.E.)
Chemical Engineering

Master of Civil Engineering (M.C.E.)
Civil Engineering

Master of Engineering (M.E.)
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Environmental Engineering
Industrial Engineering
Mechanical Engineering

Master of Environmental Engineering (M.E.V.E.)
Environmental Engineering

Master of Industrial Engineering (M.I.E.)
Industrial Engineering

Master of Mechanical Engineering (M.M.E.)
Mechanical Engineering

Master of Science in Biomedical Engineering (M.S.B.E.)
Biomedical Engineering

Master of Science in Chemical Engineering (M.S.C.H.)
Chemical Engineering

Master of Science in Civil Engineering (M.S.C.E.)
Civil Engineering

Master of Science in Computer Engineering (M.S.C.P.)
Computer Engineering

Master of Science in Computer Science (M.S.C.S.)
Computer Science

Master of Science in Electrical Engineering (M.S.E.E.)
Electrical Engineering

Master of Science in Engineering (M.S.E.)
Engineering (Post Bacc)
Engineering (5 yr program)

Master of Science in Engineering Management (M.S.E.M.)
Engineering Management

Master of Science in Engineering Science (M.S.E.S.)
Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering
Engineering Science
Environmental Engineering
Industrial Engineering
Mechanical Engineering

Master of Science in Environmental Engineering (M.S.E.V.)
Environmental Engineering

Master of Science in Industrial Engineering (M.S.I.E.)
Industrial Engineering

Master of Science in Mechanical Engineering (M.S.M.E.)
Mechanical Engineering

Doctor of Philosophy (Ph.D.)
Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Science and Engineering
Electrical Engineering
Engineering Science
Industrial Engineering
Mechanical Engineering

Concentrations:
Biomedical and Biotechnology (Chemical Engineering)
Circuits, Controls, and Systems (Electrical Engineering)
Communications and Signal Processing (Electrical Engineering)

Digital Architecture & Design (Electrical Engineering)
Electric Power Systems (Electrical Engineering)
Engineering Management (Industrial Engineering)
Geotechnical (Civil Engineering)
Interdisciplinary Transportation (Civil Engineering)
Manufacturing (Chemical Engineering)
Manufacturing Systems (Industrial Engineering)
Materials (Civil Engineering)
Microelectronics (Electrical Engineering)
Physics (Engineering Science)
Quantitative Analysis (Industrial Engineering)
Structures (Civil Engineering)
Transportation (Civil Engineering)
Water Resources (Civil Engineering)
Wireless Circuits and Systems (Electrical Engineering)

Graduate Certificates Offered: See Graduate Certificates

COLLEGE REQUIREMENTS

General Program Requirements
The requirements for graduate degrees from the College of Engineering consist of University requirements, College requirements, and Program requirements. For University requirements refer to the Graduate School Policies and Procedures. College requirements are listed below. Refer to the degree program sections for other requirements.

Master's Degree Programs
The Master's degree is awarded for advanced study beyond the baccalaureate degree within an area of specialty. The College of Engineering offers several programs leading to degrees at the master's level.

Master of Science in Designated Engineering Field - This degree is normally awarded to a Master's graduate who holds a Bachelor's degree in the designated field. Some programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (30 credits).

Master of Science in Engineering Science - This program is designed to meet the needs who wish to pursue an interdisciplinary course of study and research. This degree is individually tailored to student needs. Some programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (30 credits).

Master of Science in Engineering - This degree is normally awarded to a Master's graduate who has a Bachelor's degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses. It is a thesis program. Some programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (30 credits).

Master of Designated Discipline - This degree is normally awarded to a Master's graduate who has an undergraduate degree in the discipline and who follows an all coursework program or a project program.

Master of Engineering - This degree is normally awarded to a Master's graduate who has a Bachelor's degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses.

Manufacturing Option - In addition, the departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering offer a Master of Science in Engineering with a Manufacturing Systems Option (consisting of an 18 hour core and 18 hours of electives). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree with areas of Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems available for emphasis. The student, upon completion of the core courses, may choose electives and concentrate within one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making elective course choices from several departments.

College of Engineering Requirements for Master's Degree

1. A thesis program must contain a minimum of 24 credit hours of coursework and a minimum of 6 credit hours of thesis. (If a student transfers from a thesis program to all coursework program, no thesis hours may be transferred, converted or counted toward the degree.)

2. Non-thesis program requirements vary according to department but must contain a minimum of 30 credits of approved coursework.

3. Students must maintain an overall grade point average of 3.00. No grade below "C" will be accepted in a graduate program. If a student's average falls below 3.00, the student will be placed on probation and must obtain a directed program from the appropriate advisor, and approval by the Engineering Associate Dean for Academic Affairs, prior to continuing coursework for a degree.

4. All students are required to pass a final oral or written comprehensive examination prior to receiving the degree. These examinations are arranged and administered by the student's department.

Five-Year Programs Leading to Bachelor and Master's Degrees

Students who, at the end of the junior year, clearly are interested in graduate study are invited to pursue a five-year program leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master degrees. This program offers the opportunity to take graduate courses during the fourth year and deferring senior courses to the fifth year. Students in the Five-Year Program may apply 6 credit hours of coursework, which must be approved by the Graduate Program Coordinator, to count both degrees.

Students apply for admission to this program through their advisors, who should be consulted regarding additional requirements. Several factors, which vary by academic department, are considered for admission. However, all applicants must have a GPA of at least 3.30.

Doctoral Degree Programs

The Doctor of Philosophy degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Unlike the baccalaureate and Master's degrees, the Ph.D. degree cannot be earned by an accumulation of course credits over a period of residence alone. After adequate fundamental preparation to gain competence, the student must demonstrate research capability through completion of an authoritative investigation in the chosen engineering field, culminating in a written dissertation. The dissertation must demonstrate that the student possesses the ability to reason logically, the talent for engaging in significant and original research, and the ability to organize and present conclusions in a professional manner.

Doctor of Philosophy in Designated Engineering Field - This degree is awarded to students pursuing a program in one of the following Engineering disciplines: Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering. Students receiving this degree must demonstrate a thorough foundation in the designated discipline.

Doctor of Philosophy in Engineering Science - This program is designed to meet the needs of students who wish to pursue doctoral studies in interdisciplinary areas closely related to engineering.

College of Engineering Requirements for Doctoral Degrees

1. Supervisory Committee. An advisor will be appointed by the chair of the appropriate department or program for each student during the first semester of registration at the University of South Florida. The advisor will help determine the student's area of research interest and will delineate preliminary course assignments. At the earliest possible date, a major professor will be appointed and a supervisory committee formed. This committee will monitor the student's program of studies and has full responsibility for conducting the student's qualifying examination. The Supervisory Committee consists of a minimum of five members. One member of the committee must be outside the College of Engineering. (The requirement may be waived if special reasons exist and prior approval is obtained from the Engineering Associate Dean for Academic Affairs.) A majority of the committee will be from the College of Engineering, with at least two departments of the College represented.

2. Credit Hours. A minimum of 60 hours of coursework beyond the baccalaureate degree plus a minimum of 20 hours of dissertation research is required. Total hours of credit must equal or exceed 90 hours. A minimum of 27 hours coursework in an engineering area of concentration is required. The 27 hours need not be coursework in the same department, but must focus directly upon the areas of concentration; at least 20 hours must be at the

6000 level. In addition, a minimum of 8 hours of mathematics or statistics is required. Engineering Mathematics may be approved by the committee if appropriate. Also, a minimum of 8 hours of coursework as defined by the committee outside the major area of concentration is required. Further requirements may be imposed by the candidate's committee.

3. Learning Focus. Throughout the student's program of study, independent learning will be emphasized. For the first time in the participant's career, in most cases, the student will be responsible for mastering a new domain of knowledge without the aid of organized lectures and textbooks. The principal information source will be current literature. Such experience is a necessary preparation for a meaningful career in engineering and other fields where the professional must keep pace with a large, ever-changing body of knowledge.

4. Diagnostic Examination. All prospective candidates must pass a Ph.D. diagnostic examination that includes an area of mathematics and a prescribed area of concentration. This examination must be taken after the student has completed appropriate studies, usually equivalent to one year's coursework. Students entering with a Master's degree must take this examination before the end of the first year after admission to the program.

5. Qualifying Examination. A written and oral qualifying examination, conducted by the supervisory committee, will be taken by each Ph.D. student as soon as a substantial majority of coursework is completed. Completion of this examination and the tools of research admits the student to candidacy.

6. Admission to Candidacy. Students must be admitted to candidacy before they register for dissertation. Before admission to candidacy, students must have: a) passed the diagnostic examination of paragraph 4; b) passed the qualifying examination of paragraph 5; c) demonstrated proficiency in written and spoken English; d) satisfied the Tools of Research requirement; e) been accepted by a department faculty member credentialed to serve as chair of the dissertation committee. It is the responsibility of the Ph.D. committee for each doctoral student to define the tools of research requirement. Once admitted to candidacy students must enroll for a minimum of 2 credit hours each semester of the academic year until completion of program.

7. Dissertation Research. The student must carry out an investigation resulting in an original and significant contribution to the knowledge in the field of research. The requirement of uniqueness means that the dissertation research will provide an important creative experience for the student. As the final stage of the student's program, the candidate must prepare a written dissertation covering the research. Students in the Ph.D. program must take an appropriate number of doctoral dissertation credits, but not less than 20 hours; the exact number is determined by department and/or individual requirements. The defense of the dissertation will conform to Graduate School general rules.

8. Residency. Minimum residency requirements may be satisfied by completing at the University of South Florida, beyond the Master's degree or equivalent, the following: (1) the University's minimal requirement, or (2) 24 hours in one calendar year, or (3) 30 hours in no more than four semesters within a period of three calendar years. Any graduate work counted toward the fulfillment of the requirement for the Ph.D. degree after admission to candidacy must be accomplished within 5 calendar years.

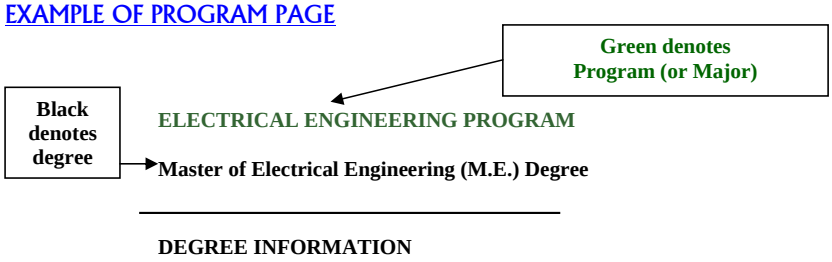
Collaboration with Other Colleges and Departments

Advanced study and research challenges exist at the interfaces between engineering and other academic disciplines. Examples include surface physics and chemistry applied to semiconductor processing technology; semiconductor physics applied to VLSI and analog integrated circuit design, manufacture and quality control; chemical processing and its relation to chemical principles; environmental engineering and chemical identification of minute impurities; environmental and transportation engineering and its relation to public health and public administration; water resources engineering and geo-hydrology; and biomedical engineering, to name only a few. The College collaborates with other academic units of the University in research activities and selectively educates students to become proficient in such interdisciplinary fields.

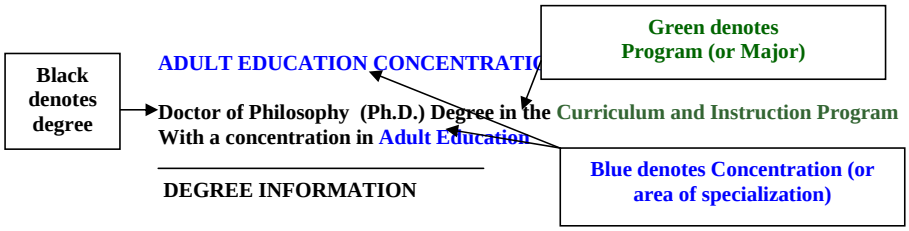
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

BIOMEDICAL ENGINEERING PROGRAM

Master of Science in Biomedical Engineering (M.S.B.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30/33
Program Level: Masters
CIP Code: 14.0501
Dept Code: DEA
Program (Major/College): EBI EN

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Biomedical Engineering is a highly interdisciplinary program that combines engineering and the medical sciences. The student works with an advisor to develop a graduate program that draws on courses from engineering, medicine, public health, and the life sciences. Current active areas of research include: biomechanics, biomaterials, medical limaging, tissue engineering, sensors, telehealth, cellular-level drug delivery, and rehabilitation engineering. Participating institutions include the James Haley Veterans Administration Hospital, Shriners Orthopedic Hospital for Children, Florida Orthopedics Institute, and Tampa General Hospital. Dr. William Lee (Lee@eng.usf.edu) is the Program Director

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Undergraduate GPA of 3.00 or higher.
2. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
3. An undergraduate Bachelor's degree or equivalent in Engineering or Science;
4. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
5. 3 letters of reference;
6. Statement of research interests.

DEGREE PROGRAM REQUIREMENTS

The thesis option consists of 30 hours of coursework, including 6 hours of thesis. Students with non-engineering undergraduate degrees can apply; remedial courses may be required that will not count towards the degree.

Currently there are three required classes:

GMS 6xxx	Anatomy and Physiology for Engineers	3
BME 6xxx	Foundations of Biomedical Engineering	3
PHC 6051	Biostatistics II	3
BME 5740	Theory and Design of Bioprocesses	3
BME 5742	Pharmaceutical Engineering	2
BME 5746	Introduction to Biomedical Engineering	3
BME 5748	Selected Topics in Biomedical Engineering	1-3
BME 5910	Directed Research in Bioengineering	1-3

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

BIOMEDICAL ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0501
Dept Code: DEA
Program (Major/College): EBI EN

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Biomedical Engineering is a highly interdisciplinary program that combines engineering and the medical sciences. The student works with an advisor to develop a graduate program that draws on courses from engineering, medicine, public health, and the life sciences. Current active areas of research include: biomechanics, biomaterials, medical limaging, tissue engineering, sensors, telehealth, cellular-level drug delivery, and rehabilitation engineering. Participating institutions include the James Haley Veterans Administration Hospital, Shriners Orthopedic Hospital for Children, Florida Orthopedics Institute, and Tampa General Hospital. Dr. William Lee (Lee@eng.usf.edu) is the Program Director

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ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Undergraduate GPA of 3.00 or higher.
2. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
3. An undergraduate Bachelor's degree or equivalent in Engineering or Science;
4. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
5. Three (3) letters of reference;
6. Statement of research interests.

DEGREE PROGRAM REQUIREMENTS

The thesis option consists of 30 hours of coursework, including 6 hours of thesis. Students with non-engineering undergraduate degrees can apply; remedial courses may be required that will not count towards the degree.

Currently there are three required classes:

GMS 6xxx	Anatomy and Physiology for Engineers	3
BME 6xxx	Foundations of Biomedical Engineering	3
PHC 6051	Biostatistics II	3
BME 5740	Theory and Design of Bioprocesses	3
BME 5742	Pharmaceutical Engineering	2
BME 5746	Introduction to Biomedical Engineering	3
BME 5748	Selected Topics in Biomedical Engineering	1-3
BME 5910	Directed Research in Bioengineering	1-3

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

BIOMEDICAL ENGINEERING PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 14.0501
Dept Code: ECH
Program (Major/College): EBI EN

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Ph.D. in Biomedical Engineering at the University of South Florida prepares individuals to contribute in this highly interdisciplinary field both as individuals and as members of interdisciplinary teams. Graduates are prepared to solve complex problems in areas such as diagnostic instrumentation, artificial organs, prosthetic devices, rehabilitation, and health care system design and operations. The doctoral program capitalizes on USF's strong programs in Engineering and in the Health Sciences as well as the contiguously located H. Lee. Moffitt Cancer Center and Research Institute, the Shriner's Orthopedic Hospital and the James Haley Veterans Administration Hospital.

Students in the program may choose to concentrate in one of four nationally recognized areas of Biomedical Engineering strength at USF.

* Medical Imaging
* Rehabilitation Engineering
* Biomechanics and Biomaterials
* Cardiovascular Engineering

The BioMedical Engineering Program at USF provides students with an integrated knowledge of engineering, biomedical science and other appropriate disciplines to allow participation in and advancement of the interdisciplinary field of Biomedical Engineering. The program also facilitates biomedical engineering research at USF through interactions with USF faculty and with industry and other health care institutions and catalyzes the growth of biomedical product companies throughout the region through the development, dissemination, and commercialization of new biomedical technologies. Overall, the program strives to develop and promote technologies and processes that will lead to better health care and improved quality of life for citizens of the State of Florida and beyond.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Successful applicants to the Ph.D. degree program in biomedical engineering will typically have presented the following preferred qualifications:

1. GRE scores (V and Q) > 75 %tile and an AW > 4.0.
2. An undergraduate GPA of >3.5 (out of a possible 4.0) based on official transcripts.
3. Completion of a Master's degree in biomedical engineering or a related field including a Master's thesis.
4. Evidence of sustained interest in Biomedical
5. Engineering including a statement of research interest
6. Three Letters of recommendation.

Note: Admissions decisions will be made using multiple measures indicated above. We strongly encourage applicants to contact specific faculty conducting research related to the student's interests. Such direct contact with individual faculty can greatly strengthen an application.

DEGREE PROGRAM REQUIREMENTS

1) **Core Courses:**
A minimum of 22 credits including:
-*BME Fundamentals*
-*Anatomy and Physiology for BME*
-*Biostatistics II*

Plus one additional approved course in Biostatistics and two approved courses in the Medical Sciences.

2) Specialization Courses:
A minimum of 18 credit hours selected from one of the four areas
of specialization:
-*Medical Imaging*
-*Rehabilitation Engineering*
-*Biomechanics and Biomaterials*
-*Cardiovascular Engineering*
Courses completed as part of a Master's degree may be used to partially meet the above course requirements.

3) Dissertation:
A minimum of 50 credits of dissertation research are required. As with other engineering Ph.D. degrees, evidence of the significance of the conducted research is provided by publication in appropriate refereed journals.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Graduate Assistantships and Fellowships
A limited number of financially competitive teaching and research graduate assistantships will be offered to incoming students. The College of Engineering is also home to several national graduate student support programs including NSF sponsored IGERT, GK-12 and Bridge to the Doctorate programs, the latter particularly emphasizing support for underrepresented minorities. Of special importance are the research opportunities and support available through affiliated institutions including the H. Lee Moffitt Cancer Center and Research Institute, the James Haley VA Hospital and the Shriner's Hospital. In addition, particularly outstanding applicants will be nominated for university fellowships including Presidential Fellowships which provide stipends of $20 K per year plus tuition, fees and Health Insurance renewable for five years.

Results
Doctoral graduates of this program have been prepared for and are successfully engaged in research careers in Government, Corporate, and University Laboratories. In addition, since much of Biomedical Engineering research translates directly into biomedical devices and instrumentation, graduates have also been directly involved in technology transfer including the establishment of new Biomedical Engineering related businesses.

Graduate Certificates
As a valuable complement to doctoral training in Biomedical Engineering, students are encouraged to also consider earning a graduate certificate particularly in the areas of:
Clinical Epidemiology
Entrepreneurship
Health Management and Leadership
Infection Control
Materials Science & Engineering
Regulatory Affairs.
Rehabilitation Engineering
Technology Management

CHEMICAL ENGINEERING PROGRAM

Master of Chemical Engineering (M.Ch.E) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters

CIP Code: 14.0701
Dept Code: ECH
Program (Major/College): ECH EN

Concentrations available in:
Biomedical and Biotechnology (BEB)

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering
Program Contact Information Link

Comment [c1]: link to contact page

PROGRAM INFORMATION

Contract Program for Information

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University.

Chemical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. GRE required, Applicantsmust score >650 (Q), .350 (V)) and Analytical of 3.0 or greater.
2. An undergraduate Bachelor's degree or equivalent in Chemical Engineering;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. Two (2) letters of reference;
5. Statement of Purpose.

DEGREE PROGRAM REQUIREMENTS

Contract Program for Information

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CHEMICAL ENGINEERING PROGRAM

Master of Engineering (M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0701
Dept Code: ECH
Program (Major/College): ECH EN

Concentrations available in:
Biomedical and Biotechnology (BEB)

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

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ADMISSION INFORMATION

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Program Admission Requirements

1. GRE required. Applicants must score >650 (Q), >350 (V) and Analytical of 3.0 or greater.
2. An undergraduate Bachelor's degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. Two (2) letters of reference;
5. Statement of Purpose.

DEGREE PROGRAM REQUIREMENTS

Contact Program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CHEMICAL ENGINEERING PROGRAM

Master of Science in Chemical Engineering (M.S.Ch.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0701
Dept Code: ECH
Program (Major/College): ECH EN

Concentrations available in:
Biomedical and Biotechnology (BEB)

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

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1. GRE required. Applicants must score >650 (Q), >350 (V) and Analytical of 3.0 or greater.
2. An undergraduate Bachelor's degree or equivalent in Chemical Engineering;
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4. Two (2) letters of reference;
5. Statement of research interests.

DEGREE PROGRAM REQUIREMENTS

Contact Program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CHEMICAL ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0701
Dept Code: ECH
Program (Major/College): ECH EN

Concentrations available in:
Biomedical and Biotechnology (BEB)

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

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ADMISSION INFORMATION

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Program Admission Requirements
1. GRE required. Applicants must score >650 (Q), >350 (V) and Analytical of 3.0 or greater.
2. An undergraduate Bachelor's degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. Two (2) letters of reference;
5. Statement of research interests.

DEGREE PROGRAM REQUIREMENTS

Contact Program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CHEMICAL ENGINEERING PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 14.0701
Dept Code: ECH
Program (Major/College): ECH EN

Concentrations available in:
Manufacturing (MFT)
Biomedical and Biotechnology (BEB)

CONTACT INFORMATION

College: Engineering
Department: Chemical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact Program for Information

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University.

Chemical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. GRE required. Applicants must score >700 (Q), >500 (V), and Analytical of 4.0 or greater;
2. An undergraduate Bachelor's degree or equivalent in Chemical Engineering.
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. Three (3) letters of reference.
5. Statement of Research Interests.

DEGREE PROGRAM REQUIREMENTS

Contact Program for Information

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CIVIL ENGINEERING PROGRAM

Master of Civil Engineering (M.C.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0801
Dept Code: EGX
Program (Major/College): ECE EN

Concentrations available in:

Geotechnical Engineering (GTL)
Interdisciplinary Transportation (ITP)
Materials Engineering and Science (MTL)
Structural Engineering (STR)
Transportation Engineering (TPT)
Water Resources (WRS)

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The M.C.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. The MCE degree is intended for students who have at least two years of civil engineering related work experience prior to completion of degree requirements. The work experience should include the preparation of engineering reports. The student's graduate advisor may require documentation of report writing ability before approving this degree. These degrees are recommended for part-time students who find it difficult to do thesis research because of their work commitment. Many of the department's graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q, 350V and 3.0 AW
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Three (3) Letters of Reference
5. Statement of Purpose
6. Exceptions made on a case-by-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS

The minimum coursework requirement for the Master of Engineering degrees is 30 credit hours.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CIVIL ENGINEERING PROGRAM

Master of Engineering (M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0801
Dept Code: EGX
Program (Major/College): ECE EN

Concentrations available in:
- Geotechnical Engineering (GTL)
- Interdisciplinary Transportation (ITP)
- Materials Engineering and Science (MTL)
- Structural Engineering (STR)
- Transportation Engineering (TPT)
- Water Resources (WRS)

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q, 350V, 3.0AW
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Three (3) letters of reference.
5. Statement of Purpose.
6. Exceptions made on a case-by-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS

The minimum coursework requirement for the Master of Engineering degrees is 30 credit hours.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CIVIL ENGINEERING PROGRAM

Master of Science in Civil Engineering (M.S.C.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 14.0801
Dept Code: EGX
Program (Major/College): ECE EN

Concentrations available in:

Geotechnical Engineering (GTL)
Interdisciplinary Transportation (ITP)
Materials Engineering and Science (MTL)
Structural Engineering (STR)
Transportation Engineering (TPT)
Water Resources (WRS)

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The MSCE is a research oriented degree in which the student writes, as a major part of the degree requirements, a thesis that defines, examines, and reports in depth on a subject area relevant to engineering. The purpose of the thesis is to instill in the student the ability to inspect, evaluate, and report on a subject of interest to the engineering profession.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q, 350V and, 3.0AW.
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Three (3) letters of reference.
5. Statement of Purpose.
6. Exceptions made on a case-by-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS:

The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CIVIL ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 14.0801
Dept Code: EGX
Program (Major/College): ECE EN

Concentrations available in:
- Geotechnical Engineering (GTL)
- Interdisciplinary Transportation (ITP)
- Materials Engineering and Science (MTL)
- Structural Engineering (STR)
- Transportation Engineering (TPT)
- Water Resources (WRS)

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q, 350V, 3.0AW.
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Three (3) letters of reference.
5. Statement of Purpose.
6. Exceptions made on a case-by-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS

Contact Program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CIVIL ENGINEERING PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 60/90
Program Level: Doctoral
CIP Code: 14.0801
Dept Code: EGX
Program (Major/College): ECE EN

Concentrations available in:
- Geotechnical Engineering (GTL)
- Interdisciplinary Transportation (ITP)
- Materials Engineering and Science (MTL)
- Structural Engineering (STR)
- Transportation Engineering (TPT)
- Water Resources (WRS)

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The Ph.D. degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Ph.D. students may work in all of the areas of Civil Engineering: Engineering Mechanics, Environmental Engineering, Geotechnical Engineering, Pavement Engineering, Materials Engineering and Science, Structural Engineering, Transportation Engineering and Planning, and Water Resources Engineering.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. GRE 700Q, 450V, 4.0AW.
2. TOEFL (International applicants only) 550 or 213 (CBT).
3. Three (3) letters of reference.
4. Statement of Purpose.

DEGREE PROGRAM REQUIREMENTS

The program consists of a minimum of 60 credits of coursework beyond the bachelor's degree and 30 credits of dissertation/research.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

COMPUTER ENGINEERING PROGRAM

Master of Engineering (M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students

Fall:	March 15
Spring:	October 15
Summer:	No Admit

International Students:

Fall:	January 2
Spring:	July 1
Summer:	no admit

Minimum Total Hours:	33
Program Level:	Masters
CIP Code:	14.0901
Dept Code:	ESB
Program (Major/College):	ECP EN

CONTACT INFORMATION

College:	Engineering
Department:	Computer Science and Engineering
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC's and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department's facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

There are specialized laboratories for research in Artificial Intelligence/Intelligent Systems, Autonomous Unmanned Vehicle Systems, Computer Vision and Image Analysis, Distributed Systems, Information Systems, Robotics, Software Security, Theoretical Computer Science, and VLSI, Computer Architecture and Parallel Processing (VCAPP). These laboratories provide access to special purpose hardware and software including high-performance servers, graphics workstations, parallel machines, multiple robotics platforms, and specialized software packages. Engineering Computing operates large open access PC labs and SUN Servers for the College of Engineering. Some graduate courses offered by the department are available to practicing engineers through the Academic and Professional Engineering Excellence (APEX) program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, distributed systems, expert systems, fault-tolerant computing, formal verification, human-computer interface, image processing, robotics, software engineering, software security, and VLSI design and CAD.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. GRE (must make at least 500 V, 700Q)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total), 213 (computer-based total) or 79 (internet-based total).
4. Three letters of recommendation
5. Statement of purpose
6. The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential

Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structure, operating systems and algorithms.

7. For teaching assistantship consideration applicants from non-English speaking countries must take and pass the speaking component of the internet-based TOEFL with a score of 26 or above.

DEGREE PROGRAM REQUIREMENTS

Contact Computer Science and Engineering for information

COURSES -See http://www.ugs.usf.edu/sab/sabs.cfm

COMPUTER ENGINEERING PROGRAM

Master of Science in Computer Engineering (M.S.C.P.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students

Fall:	March 15
Spring:	October 15
Summer:	no admit

International Students:

Fall:	January 2
Spring:	July 1
Summer:	no admit

Minimum Total Hours:	30 thesis: 30 non-thesis
Program Level:	Masters
CIP Code:	14.0901
Dept Code:	ESB
Program (Major/College):	ECP EN

CONTACT INFORMATION

College:	Engineering
Department:	Computer Science and Engineering
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC's and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department's facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

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Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:

An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, distributed systems, expert systems, fault-tolerant computing, formal verification, human-computer interface, image processing, robotics, software engineering, software security, and VLSI design and CAD.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. GRE (must make at least 500V, 700Q)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total) or 79 (internet-based total).
4. Three letters of recommendation
5. Statement of purpose
6. The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and

computer engineering, including logic design, computer architecture, data structure, operating systems and algorithms.

7. For teaching assistantship consideration, applicants from non-English speaking countries must take and pass the speaking component of the internet-based TOEFL with a score of 26 or above.

DEGREE PROGRAM REQUIREMENTS

Successful completion of three core graduate-level courses: Principles of Computer Architecture, Operating Systems, and Theory of Algorithms (non-thesis option students must make a grade of "B" or higher in these core courses). In addition, thesis option requires completion of 15 credit hours of CSE graduate-level electives and 6 credit hours of thesis, and non-thesis option requires 24 credit hours of CSE graduate-level electives.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

COMPUTER ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students

Fall:	March 15
Spring:	October 15
Summer:	no admit

International Students:

Fall:	January 2
Spring:	July 1
Summer:	no admit

Minimum Total Hours:	30
Program Level:	Masters
CIP Code:	14.0901
Dept Code:	ESB
Program (Major/College):	ECP EN

CONTACT INFORMATION

College:	Engineering
Department:	Computer Science and Engineering
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC's and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department's facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

There are specialized laboratories for research in Artificial Intelligence/Intelligent Systems, Autonomous Unmanned Vehicle Systems, Computer Vision and Image Analysis, Distributed Systems, Information Systems, Robotics, Software Security, Theoretical Computer Science, and VLSI, Computer Architecture and Parallel Processing (VCAPP). These laboratories provide access to special purpose hardware and software including high-performance servers, graphics workstations, parallel machines, multiple robotics platforms, and specialized software packages. Engineering Computing operates large open access PC labs and SUN Servers for the College of Engineering. Some graduate courses offered by the department are available to practicing engineers through the Academic and Professional Engineering Excellence (APEX) program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, distributed systems, expert systems, fault-tolerant computing, formal verification, human-computer interface, image processing, robotics, software engineering, software security, and VLSI design and CAD.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. GRE (must make at least 500V, 700Q)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total) or 79 (internet-based total).
4. Three letters of recommendation
5. Statement of purpose
6. The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structure, operating systems and algorithms.

7. For teaching assistantship consideration applicants from non-English speaking countries must take and pass the speaking component of the internet-based TOEFL with a score of 26 or above.

DEGREE PROGRAM REQUIREMENTS

Contact Computer Science and Engineering for information

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

COMPUTER SCIENCE PROGRAM

Master of Science in Computer Science (M.S.C.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: No admit

Minimum Total Hours: 30 thesis: 30 non-thesis
Program Level: Masters
CIP Code: 14.0901
Dept Code: ESB
Program (Major/College): ECC EN

CONTACT INFORMATION

College: Engineering
Department: Computer Science and Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC's and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department's facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

There are specialized laboratories for research in Artificial Intelligence/Intelligent Systems, Autonomous Unmanned Vehicle Systems, Computer Vision and Image Analysis, Distributed Systems, Information Systems, Robotics, Software Security, Theoretical Computer Science, and VLSI, Computer Architecture and Parallel Processing (VCAPP). These laboratories provide access to special purpose hardware and software including high-performance servers, graphics workstations, parallel machines, multiple robotics platforms, and specialized software packages. Engineering Computing operates large open access PC labs and SUN Servers for the College of Engineering. Some graduate courses offered by the department are available to practicing engineers through the Academic and Professional Engineering Excellence (APEX) program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, distributed systems, expert systems, fault-tolerant computing, formal verification, human-computer interface, image processing, robotics, software engineering, software security, and VLSI design and CAD.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. GRE (must make at least 500V, 700Q)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total) or 79 (internet-based total).
4. Three letters of recommendation
5. Statement of purpose
6. The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structure, operating systems and algorithms.
7. For teaching assistantship consideration, applicants from non-English speaking countries must take and pass the speaking component of the internet-based TOEFL with a score of 26 or above.

DEGREE PROGRAM REQUIREMENTS

Successful completion of three core graduate-level courses: Principles of Computer Architecture, Operating Systems, and Theory of Algorithms (non-thesis option students must make a grade of "B" or higher in these core courses). In addition, thesis option requires completion

of 15 credit hours of CSE graduate-level electives and 6 credit hours of thesis, and non-thesis option requires 24 credit hours of CSE graduate-level electives.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

COMPUTER SCIENCE PROGRAM

Master of Engineering (M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Closed for new admissions

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 14.0901
Dept Code: ESB
Program (Major/College): ECC EN

CONTACT INFORMATION

College: Engineering
Department: Computer Science and Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC's and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department's facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

There are specialized laboratories for research in Artificial Intelligence/Intelligent Systems, Autonomous Unmanned Vehicle Systems, Computer Vision and Image Analysis, Distributed Systems, Information Systems, Robotics, Software Security, Theoretical Computer Science, and VLSI, Computer Architecture and Parallel Processing (VCAPP). These laboratories provide access to special purpose hardware and software including high-performance servers, graphics workstations, parallel machines, multiple robotics platforms, and specialized software packages. Engineering Computing operates large open access PC labs and SUN Servers for the College of Engineering. Some graduate courses offered by the department are available to practicing engineers through the Academic and Professional Engineering Excellence (APEX) program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, distributed systems, expert systems, fault-tolerant computing, formal verification, human-computer interface, image processing, robotics, software engineering, software security, and VLSI design and CAD.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

CLOSED FOR NEW ADMISSIONS

1. GRE (must make at least 500V, 700Q)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total) or 79 (internet-based total).
4. Three letters of recommendation
5. Statement of purpose
6. The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structure, operating systems and algorithms.
7. For teaching assistantship consideration, applicants from non-English speaking countries must take and pass the speaking component of the internet-based TOEFL with a score of 26 or above.

DEGREE PROGRAM REQUIREMENTS

Contact Computer Science and Engineering for information

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

COMPUTER SCIENCE PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
US Students:

Fall:	March 15
Spring:	October 15
Summer:	No admit

International Students:

Fall:	January 2
Spring:	July 1
Summer:	No admit

Minimum Total Hours:	30
Program Level:	Masters
CIP Code:	14.0901
Dept Code:	ESB
Program (Major/College):	ECC EN

CONTACT INFORMATION

College:	Engineering
Department:	Computer Science and Engineering
Contact Information:	www.grad.usf.edu
Other Resources:	www.usf4you

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC's and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department's facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

There are specialized laboratories for research in Artificial Intelligence/Intelligent Systems, Autonomous Unmanned Vehicle Systems, Computer Vision and Image Analysis, Distributed Systems, Information Systems, Robotics, Software Security, Theoretical Computer Science, and VLSI, Computer Architecture and Parallel Processing (VCAPP). These laboratories provide access to special purpose hardware and software including high-performance servers, graphics workstations, parallel machines, multiple robotics platforms, and specialized software packages. Engineering Computing operates large open access PC labs and SUN Servers for the College of Engineering. Some graduate courses offered by the department are available to practicing engineers through the Academic and Professional Engineering Excellence (APEX) program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, distributed systems, expert systems, fault-tolerant computing, formal verification, human-computer interface, image processing, robotics, software engineering, software security, and VLSI design and CAD.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. GRE (must make at least 500V, 700Q)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total) or 79 (internet-based total).
4. Three letters of recommendation
5. Statement of purpose
6. The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structure, operating systems and algorithms.
7. For teaching assistantship consideration, applicants from non-English speaking countries must take and pass the speaking component of the internet-based TOEFL with a score of 26 or above.

DEGREE PROGRAM REQUIREMENTS

Contact Computer Science and Engineering for information

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

COMPUTER SCIENCE AND ENGINEERING PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
US Students:
Fall: March 15
Spring: October 15
Summer: No admit

International Students:
Fall: January 2
Spring: July 1
Summer: No admit

Minimum Total Hours: 90/60
Program Level: Doctoral
CIP Code: 14.0901
Dept Code: ESB
Program (Major/College): CSE EN

CONTACT INFORMATION

College: Engineering
Department: Computer Science and Engineering

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC's and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department's facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

There are specialized laboratories for research in Artificial Intelligence/Intelligent Systems, Autonomous Unmanned Vehicle Systems, Computer Vision and Image Analysis, Distributed Systems, Information Systems, Robotics, Software Security, Theoretical Computer Science, and VLSI, Computer Architecture and Parallel Processing (VCAPP). These laboratories provide access to special purpose hardware and software including high-performance servers, graphics workstations, parallel machines, multiple robotics platforms, and specialized software packages. Engineering Computing operates large open access PC labs and SUN Servers for the College of Engineering. Some graduate courses offered by the department are available to practicing engineers through the Academic and Professional Engineering Excellence (APEX) program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, distributed systems, expert systems, fault-tolerant computing, formal verification, human-computer interface, image processing, robotics, software engineering, software security, and VLSI design and CAD.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. GRE (must make at least 500V,700Q)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate study and thereafter.
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total) or 79 (internet-based total).
4. Teaching assistant applicants whose native language is not English must take and pass the TSE (Test of Spoken English)
5. Three letters of recommendation
6. Statement of purpose
7. For teaching assistantship consideration, applicants from non-English speaking countries must take and pass the speaking component of

the internet-based TOEFL with a score of 26 or above.

DEGREE PROGRAM REQUIREMENTS

90 credit hours beyond the baccalaureate (including at least 20 dissertation hours). The 90 hours must include at least 8 credit hours each in two minor fields: a math minor and an elective minor. Up to 15 credit hours of thesis/independent study/directed research can be used towards the 90 credit hours. In addition, the Ph.D. student must teach at least one course, pass the Doctoral Qualifying examinations (in Computer Architecture, Operating Systems, and Math/Algorithms, and the student's Specialty Area), be admitted to Candidacy, and successfully write and defend the disseration.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

ELECTRICAL ENGINEERING PROGRAM

Master of Engineering (M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: No admit

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.100**1**
Dept Code: EGE
Program (Major/College): EEL EN

Concentrations available in:
Circuits, Controls and Systems (CCS)
Communications and Signal Processing (CSG)
Digital Architecture and Design (DAD)
Electric Power Systems (EPS)
Microelectronics (MLS)
Wireless Circuits and Systems (WCS)

Also offered as:
Dual M.S. Degree in Physics/Engineering;
Joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

CONTACT INFORMATION

College: Engineering
Department: Electrical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master's level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department's research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, thin dielectric films, restructurable VLSL communications and signal processing, power and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm.-software, comm.-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering. Master's programs include options in the five major areas listed above. Other programs may be tailored for students with special interests. The M.E. Degree is an option for students whose B.S. Degree is in an engineering discipline other than Electrical Engineering.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. Minimum GPA of 3.0
2. GRE Required
3. Educational experience required
4. TOEFL score of 550; 213 on computerized test; 79 internet based exam

DEGREE PROGRAM REQUIREMENTS

Please contact Electrical Engineering for information.

Thesis Option	
Required Courses	24 hours
Thesis hours	6
Total hours	30
Project Option	
Required Courses	27 hours
Project hours	3
Total hours	30
Course Work Only Option	
Required courses	30

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

ELECTRICAL ENGINEERING PROGRAM

Master of Science in Electrical Engineering (M.S.E.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1001
Dept Code: EGE
Program (Major/College): EEL EN

Concentrations available in:
Circuits, Controls and Systems (CCS)
Communications and Signal Processing (CSG)
Digital Architecture and Design (DAD)
Electric Power Systems (EPS)
Microelectronics (MLS)
Wireless Circuits and Sy stems (WCS)

Also offered as:
Dual M.S. Degree in Physics/Engineering;
Joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

CONTACT INFORMATION

College: Engineering
Department: Electrical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master's level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department's research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, thin dielectric films, restructurable VLSI, communications and signal processing, power and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering. Master's programs include options in the five major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master's studies, comprising 30 credit hours of course work without a thesis are possible.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. Minimum 3.00 GPA
2. GRE Required
3. Educational experience required
4. TOEFL score of 550; 213 on computerized test; 79 on internet based exam

DEGREE PROGRAM REQUIREMENTS

Please contact Electrical Engineering for information

Thesis Option	
Required Courses	24 hours
Required Thesis Hours	6 hours
Total hours:	30 hours

Project Option	
Required Courses	37 hours
Required Project Hours	3 hours
Total hours:	30 hours

Course work only	
Required Courses	30 hours

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ELECTRICAL ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1001
Dept Code: EGE
Program (Major/College): EEL EN

Concentrations available in:
Circuits, Controls and Systems (CCS)
Communications and Signal Processing (CSG)
Digital Architecture and Design (DAD)
Electric Power Systems (EPS)
Microelectronics (MLS)
Wireless Circuits and Systems (WCS)

Also offered as:
Dual M.S. Degree in Physics/Engineering;
Joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

CONTACT INFORMATION

College: Engineering
Department: Electrical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master's level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department's research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, thin dielectric films, restructurable VLSI, communications and signal processing, power and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering. Master's programs include options in the five major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master's studies, comprising 30 credit hours of course work without a thesis are possible. The M.S.E.S. Degree is an option for students whose B.S. Degree is in a discipline other than engineering.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.
1. Minimum 3.00 GPA
2. GRE Required
3. Educational experience
4. TOEFL score of 550; 213 on computerized test; 79 internet based exam..

DEGREE PROGRAM REQUIREMENTS

Please contact Electrical Engineering for information

Thesis Option	
Required Courses	24 hours
Required Thesis Hours	6 hours
Total hours:	30 hours

Project Option	
Required Courses	37 hours
Required Project Hours	3 hours
Total hours:	30 hours

Course work only	
Required Courses	30 hours

COURSES -See http://www.ugs.usf.edu/sab/sabs.cfm

ELECTRICAL ENGINEERING PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 90/60
Program Level: Doctoral

CIP Code: 14.1001
Dept Code: EGE
Program (Major/College): EEL EN

Concentrations available in:
- Circuits, Controls and Systems (CCS)
- Communications and Signal Processing (CGS)
- Digital Architecture and Design (DAD)
- Electric Power Systems (EPS)
- Microelectronics (MLS)
- Wireless Circuits and Systems (WCS)

Contact Electrical Engineering for a current list of active Concentrations.

CONTACT INFORMATION

College: Engineering
Department: Electrical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master's level. The Department's research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, thin dielectric films, restructurable VLSI, communications and signal processing, power and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. Minimum 3.00 GPA
2. GRE Required
3. Educational experience
4. TOEFL score of 550; 213 on computerized test; 79 internet based exam...
5. Three (3) Letters of Reference
6. Statement of Purpose

DEGREE PROGRAM REQUIREMENTS

Please contact Electrical Engineering for information

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENGINEERING (POST-BACCALAUREATE)

Master of Science in Engineering (M.S.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters
Program Status: Active
CIP Code: 14.0101
Dept Code: DEA
Program (Major/College): EGP EN

Concentrations available in each department.

CONTACT INFORMATION

College: Engineering
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This degree is normally awarded to a student who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Same as general University Requirement.

DEGREE PROGRAM REQUIREMENTS

Each department in the College is authorized to offer this degree. Please check with the individual department for requirements.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENGINEERING MANAGEMENT PROGRAM

Master of Science in Engineering Management (M.S.E.M.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 33
Program Level: Masters

CIP Code: 14.3502
Dept Code: EGS
Program (Major/College): EMA EN

CONTACT INFORMATION

College: Engineering
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This program is designed to prepare engineers from various disciplines to make the transition to technical management. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. They combine qualitative approaches with quantitative techniques. Courses are available on campus or the internet via the FEEDS system.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. BS in Engineering or equivalent.
2. Minimum 3.00 GPA upper level
3. GRE 400V, 600Q
4. Letter of recommendation.
5. Resume
6. TOEFL score of 550 or higher (213 or higher on computerized test)
7. Two years professional experience or internship

DEGREE PROGRAM REQUIREMENTS

A minimum of 33 credits of approved coursework beyond the bachelor level is required, 18 credits of core work and 15 credits of electives. A thesis option is available to M.S.E.M. students who are interested in applied research. Up to 6 hours of advanced courses in the student's area of specialty may be taken as electives.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENGINEERING MANAGEMENT PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 14.3502
Dept Code: EGS
Program (Major/College): EMA EN

CONTACT INFORMATION

College: Engineering
Department: Industrial and Management Systems Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This program is designed to prepare engineers from various disciplines to make the transition to technical management. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. They combine qualitative approaches with quantitative techniques. Courses are available on campus or the internet via the FEEDS system.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. BS in Engineering or equivalent.
2. Minimum 3.00 GPA upper level
3. GRE 400V, 600Q
4. Letter of recommendation.
5. Resume
6. TOEFL score of 550 or higher (213 or higher on computerized test)
7. Two years professional experience or internship

DEGREE PROGRAM REQUIREMENTS

A minimum of 33 credits of approved coursework beyond the bachelor level is required, 18 credits of core work and 15 credits of electives. A thesis option is available to M.S.E.M. students who are interested in applied research. Up to 6 hours of advanced courses in the student's area of specialty may be taken as electives.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENGINEERING SCIENCE (5-YEAR) PROGRAM

Master of Science in Engineering Science (M.S.E.S) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0101
Dept Code: ESB
Program (Major/College): EGC EN

Also offered as: 5 year M.S.E.S. program - available in each department

CONTACT INFORMATION

College: Engineering
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This program is designed to meet the needs of students who wish to pursue studies in interdisciplinary engineering areas. A strong foundation in rigorous scientific and engineering principles and practice is expected. It is normally awarded for completion of a thesis program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Check the admission requirements of the host department; student's interest of study.

DEGREE PROGRAM REQUIREMENTS

Each department in the College is authorized to offer the Master of Science in Engineering Science and the Master of Science in Engineering. These degrees are individually tailored to student needs. Please check with the individual department for requirements.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENGINEERING SCIENCE PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 14.0101
Dept Code: DEA
Program (Major/College): EGC EN

Concentrations available in:
Physics (ENP)

Also offered as:
Five (5) year M.S.E.S. program -available in each department

CONTACT INFORMATION

College: Engineering
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This program is designed to meet the needs of students who wisoh to pursue studies in interdisciplinary engineering areas. A strong foundation in rigorous scientific and engineering principles and practice is expected. It is normally awarded for completion of a thesis program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Check the admission requirements of the host department; student's min interest of study.

DEGREE PROGRAM REQUIREMENTS

Each department in the College is authorized to offer the Master of Science in Engineering Science and the Master of Science in Engineering. These degrees are individually tailored to student needs. Please check with the individual department for requirements.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENGINEERING SCIENCE / PHYSICS PROGRAM

Dual Degree (Joint degree) Program
Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.0101
Dept Code: ESB
Program (Major/College): EGC EN

Also offered as:
Interdisciplinary - Ph.D. in Engineering Science

CONTACT INFORMATION

Colleges: Engineering and Arts and Sciences
Departments: Engineering / Physics

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact the program for information. Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain a Ph.D. in Engineering under the dissertation direction of a Physics Director of Graduate Studies

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
See listings for Physics and Engineering Science.

DEGREE PROGRAM REQUIREMENTS

Contact the program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENGINEERING SCIENCE / PHYSICS PROGRAM

Dual Degree (Joint degree) Program
Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 14.0101
Dept Code: DEA
Program (Major/College): EGC EN
Concentration Code: ENP

CONTACT INFORMATION

Colleges: Engineering and Arts and Sciences
Department: Engineering / Physics

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact the program for information. Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain a Ph.D. in Engineering under the dissertation direction of a Physics Director of Graduate Studies

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
See listings for Physics and Engineering Science.

DEGREE PROGRAM REQUIREMENTS

Contact the program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENVIRONMENTAL ENGINEERING PROGRAM

Master of Engineering (M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1401
Dept Code: EGX
Program (Major/College): EVE EN

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department's graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q; 350V with minimum of 3.0 AW
3. TOEFL (interantional applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-bay-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS

The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours.

COURSES:

See http://www.ugs.usf.edu/sab/sabs.cfm

ENVIRONMENTAL ENGINEERING PROGRAM

Master of Environmental Engineering (M.E.V.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1401
Dept Code: EGX
Program (Major/College): EVE EN

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department's graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q; 350V with3.0 AW
3. TOEFL (interantional applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-bay-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS:

The minimum coursework requirement for the Master of Engineering degrees is 30 credit hours.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENVIRONMENTAL ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1401
Dept Code: EGX
Program (Major/College): EVE EN

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department's graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q; 350V with 3.0 AW
3. TOEFL (interantional applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-bay-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS:

The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENVIRONMENTAL ENGINEERING PROGRAM

Master of Science in Environmental Engineering (M.S.E.V.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1401
Dept Code: EGX
Program (Major/College): EVE EN

CONTACT INFORMATION

College: Engineering
Department: Civil and Environmental Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department's graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Overall GPA 2.75; GPA in major 3.00
2. GRE 650Q; 350V with 3.0AW
3. TOEFL (interantional applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-bay-case basis where warranted.

DEGREE PROGRAM REQUIREMENTS:

The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

INDUSTRIAL ENGINEERING PROGRAM

Master of Industrial Engineering (M.I.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 14.3501
Dept Code: EGS
Program (Major/College): EIE EN

Concentrations available in:
Engineering Management (IMA)
Quantitative Analysis (QAS)

CONTACT INFORMATION

College: Engineering
Department: Industrial and Management Systems Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The department participates in the college's M.S.E., M.E. and M.S.E.S. programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. An undergraduate degree in industrial engineering with a 3.0/4.0 GPA; non engineering degrees will be required to take supplemental undergraduate courses
2. GRE Required
3. TOEFL for international students 213 (550 paper version)
4. Three letters of reference

DEGREE PROGRAM REQUIREMENTS

Contact the department for information. Total of 33 approved credit hours plus comprehensive exam.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

INDUSTRIAL ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1401
Dept Code: EGS
Program (Major/College): EIE EN

Concentrations available in:
Engineering Management (IMA)
Quantitative Analysis (QAS)

CONTACT INFORMATION

College: Engineering
Department: Industrial and Management Systems Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The department participates in the college's M.S.E., M.E. and M.S.E.S. programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. An undergraduate degree in industrial engineering with a 3.0/4.0 GPA; non engineering degrees will be required to take supplemental undergraduate courses
2. GRE Required
3. TOEFL for international students 213 (550 paper version)
4. Three letters of reference

DEGREE PROGRAM REQUIREMENTS

Master of Science in Engineering -- Manufacturing Systems Option

In addition, the Departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering, offer a Master of Science in Engineering with a Manufacturing option (consisting of 18 hours core and either 18 hours of electives or 6 hours of electives and a thesis). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree emphasizing Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems.The student may choose electives and concentrate in one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making their elective course choices from several departments.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

INDUSTRIAL ENGINEERING PROGRAM

Master of Science in Industrial Engineering (M.S.I.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
- **Fall:** March 15
- **Spring:** October 15
- **Summer:** March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1401
Dept Code: EGX
Program (Major/College): EVE EN

Concentrations available in:
Engineering Management (IMA)
Quantitative Analysis (QAS)

CONTACT INFORMATION

College: Engineering
Department: Industrial and Management Systems Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The department participates in the college's M.S.E., M.E. and M.S.E.S. programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. An undergraduate degree in Industrial Engineering with a 3.0/4.0 GPA; non engineering degrees will be required to take supplemental undergraduate courses
2. GRE Required
3. TOEFL for international students 213 (550 paper version)
4. Three letters of reference
5. Statement of purpose including evidence of research potential

DEGREE PROGRAM REQUIREMENTS

Minimum of 24 credit hours of approved course work and six credit hours of thesis. Contact the department for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

INDUSTRIAL ENGINEERING PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 14.3501
Dept Code: EGS
Program (Major/College): EIE EN

Concentrations available in:
Engineering Management (IMA)
Manufacturing Systems (MFS)
Quantitative Analysis (QAS)

CONTACT INFORMATION

College: Engineering
Department: Industrial and Management Systems Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Contact the department for information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Although USF only requires Ph.D. Students to complete two consectuive semesters as full-time students, the IMSE Dept. policy is for Ph.D. Students to complete their total doctoral program as full-time Tampa campus students. Other requirements include:

1. GRE Required
2. TOEFL for international students 213 (550 paper version)
3. Three letters of reference
4. Statement of Purpose including evidence of research potential

DEGREE PROGRAM REQUIREMENTS

Minimum of 90 credit hours beyond BS degree. Minimum of 60 credit hours of approved course work and 20 credit hours of research. Contact the department for information.

Also visit http://imse.eng.usf.edu

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MECHANICAL ENGINEERING PROGRAM

Master of Engineering (M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 33
Program Level: Masters
CIP Code: 14.1901
Dept Code: EGR
Program (Major/College): EME EN

CONTACT INFORMATION

College: Engineering
Department: Mechanical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering.

Research opportunities are available in the following areas: Mechanism Design, Kinematics, System Dynamics and Vibrations, Mechanical Controls, Tribology, Mechanical Design, Robotics, Rehabilitation Engineering, Composite Materials, Solid Mechanics, Fluid Dynamics, Thermal Energy Systems, Microelectronic Device Thermal Management, Clean and Renewable Energy Systems, Micro and Nano scale materials and systems, MEMS, Biosensors, Biofluids, Biomedical Engineering, and Engineering Education.

Department facilities include the following laboratories: Computational Fluid Dynamics, Computational Solid Mechanics, Computer-Aided Design, Dynamic Systems, Hydraulics, Rehabilitation Engineering, Robotics, Biofuel cells and Biomimetics, Nanomaterials and Thin Films, Advanced Materials Processing and Characterization, Biofluids and Biosensors, Microelectronic Thermal Management and Heat Transfer, and Compliant Mechanisms.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
All applicants must take the GRE. A minmum score of 350V, 700Q must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master's Program. International students must score a minimum of 500 on the TOEFL examination.

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department's entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MECHANICAL ENGINEERING PROGRAM

Master of Mechanical Engineering (M.M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1901
Dept Code: EGR
Program (Major/College): EME EN

CONTACT INFORMATION

College: Engineering
Department: Mechanical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering.

Research opportunities are available in the following areas: Mechanism Design, Kinematics, System Dynamics and Vibrations, Mechanical Controls, Tribology, Mechanical Design, Robotics, Rehabilitation Engineering, Composite Materials, Solid Mechanics, Fluid Dynamics, Thermal Energy Systems, Microelectronic Device Thermal Management, Clean and Renewable Energy Systems, Micro and Nano scale materials and systems, MEMS, Biosensors, Biofluids, Biomedical Engineering, and Engineering Education.

Department facilities include the following laboratories: Computational Fluid Dynamics, Computational Solid Mechanics, Computer-Aided Design, Dynamic Systems, Hydraulics, Rehabilitation Engineering, Robotics, Biofuel cells and Biomimetics, Nanomaterials and Thin Films, Advanced Materials Processing and Characterization, Biofluids and Biosensors, Microelectronic Thermal Management and Heat Transfer, and Compliant Mechanisms.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
All applicants must take the GRE. A minmum score of 350V, 700Q must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master's Program. International students must score a minimum of 500 on the TOEFL examination.

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department's entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MECHANICAL ENGINEERING PROGRAM

Master of Science in Engineering Science (M.S.E.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1901
Dept Code: EGR
Program (Major/College): EME EN

CONTACT INFORMATION

College: Engineering
Department: Mechanical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering.

Research opportunities are available in the following areas: Mechanism Design, Kinematics, System Dynamics and Vibrations, Mechanical Controls, Tribology, Mechanical Design, Robotics, Rehabilitation Engineering, Composite Materials, Solid Mechanics, Fluid Dynamics, Thermal Energy Systems, Microelectronic Device Thermal Management, Clean and Renewable Energy Systems, Micro and Nano scale materials and systems, MEMS, Biosensors, Biofluids, Biomedical Engineering, and Engineering Education.

Department facilities include the following laboratories: Computational Fluid Dynamics, Computational Solid Mechanics, Computer-Aided Design, Dynamic Systems, Hydraulics, Rehabilitation Engineering, Robotics, Biofuel cells and Biomimetics, Nanomaterials and Thin Films, Advanced Materials Processing and Characterization, Biofluids and Biosensors, Microelectronic Thermal Management and Heat Transfer, and Compliant Mechanisms.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
All applicants must take the GRE. A minmum score of 350V, 700Q must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master's Program. International students must score a minimum of 500 on the TOEFL examination.

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department's entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MECHANICAL ENGINEERING PROGRAM

Master of Science in Mechanical Engineering (M.S.M.E.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 14.1901
Dept Code: EGR
Program (Major/College): EME EN

CONTACT INFORMATION

College: Engineering
Department: Mechanical Engineering

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering.

Research opportunities are available in the following areas: Mechanism Design, Kinematics, System Dynamics and Vibrations, Mechanical Controls, Tribology, Mechanical Design, Robotics, Rehabilitation Engineering, Composite Materials, Solid Mechanics, Fluid Dynamics, Thermal Energy Systems, Microelectronic Device Thermal Management, Clean and Renewable Energy Systems, Micro and Nano scale materials and systems, MEMS, Biosensors, Biofluids, Biomedical Engineering, and Engineering Education.

Department facilities include the following laboratories: Computational Fluid Dynamics, Computational Solid Mechanics, Computer-Aided Design, Dynamic Systems, Hydraulics, Rehabilitation Engineering, Robotics, Biofuel cells and Biomimetics, Nanomaterials and Thin Films, Advanced Materials Processing and Characterization, Biofluids and Biosensors, Microelectronic Thermal Management and Heat Transfer, and Compliant Mechanisms.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
All applicants must take the GRE. A minmum score of 350V, 700Q must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master's Program. International students must score a minimum of 500 on the TOEFL examination.

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department's entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MECHANICAL ENGINEERING PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15
Summer: March 1

Minimum Total Hours: 72
Program Level: Doctoral
CIP Code: 14.1901
Dept Code: EGR
Program (Major/College): EME EN

Concentrations available in:
Manufacturing (MFG)

CONTACT INFORMATION

College: Engineering
Department: Mechanical Engineering

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering.

Research opportunities are available in the following areas: Mechanism Design, Kinematics, System Dynamics and Vibrations, Mechanical Controls, Tribology, Mechanical Design, Robotics, Rehabilitation Engineering, Composite Materials, Solid Mechanics, Fluid Dynamics, Thermal Energy Systems, Microelectronic Device Thermal Management, Clean and Renewable Energy Systems, Micro and Nano scale materials and systems, MEMS, Biosensors, Biofluids, Biomedical Engineering, and Engineering Education.

Department facilities include the following laboratories: Computational Fluid Dynamics, Computational Solid Mechanics, Computer-Aided Design, Dynamic Systems, Hydraulics, Rehabilitation Engineering, Robotics, Biofuel cells and Biomimetics, Nanomaterials and Thin Films, Advanced Materials Processing and Characterization, Biofluids and Biosensors, Microelectronic Thermal Management and Heat Transfer, and Compliant Mechanisms.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
As a rule only students with an M.S. in Mechanical Engineering or a closely related field will be admitted into the Ph.D. Program. Students without an M.S. in Mechanical Engineering may also be admitteed but will be required to take a minmum of 6 credit hours from the Fluid and Thermal Sciences area and a minmum of 6 credit hours from the Mechanics and Systems area. Minimum requirements for admission are 400V, 750Q on the GRE .

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department's entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

Section 20
College of Marine Science

University of South Florida
College of Marine Science
140 7th Avenue S, MSL119
St. Petersburg, FL 33701

Web address: http://www.marine.usf.edu/
Email: advisor@marine.usf.edu
Phone: 727-553-1130
Fax: 727-553-1189

College Dean: Peter Betzer
Associate Dean: n/a
Graduate Coordinator: Ted Van Vleet

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools

Mission Statement:
The College of Marine Science (CMS) was formed during 2000 from the previous Department of Marine Science, initiated in 1967 with three founding faculty members. The Florida Board of Regents declared it a University Center of Excellennce in 1978 and approved the Marine Science Ph.D. program in 1982. Staff and faculty serve students on the St. Petersburg campus, Tampa, and the other regional campuses together with their surrounding communities, espousing goals of both diversity and equal opportunity. The CMS at the University of South Florida is constituted as a graduate-level research program that forms the basis for educational opportunities at the Ph.D. and M.S. degree levels and for public service to the State of Florida. The College administratively reports to the Provost of USF.

Mission
The primary mission of the College is to conduct basic and applied research in ocean science. Here, ocean science is defined by application of the traditional fields of science to both the biology, chemistry, geology, and physics of the marine environment and to the interactions between the marine environment and the adjoining atmosphere and land systems – presently and throughout earth's history. Included in the primary ocean science mission is the development of new technologies and tools for exploring the coupled ocean-atmosphere-land systems. The College expects its faculty to develop research programs of outstanding caliber and to fully engage the national and international scientific communities, through the reporting of research results in the most respected oral and written venues, and by professional service. Integral to the ocean science research mission is the education of graduate students.

The College recruits, trains, and graduates productive, creative scientists at the Ph.D. and M.S. levels that are prepared to make independent contributions to ocean science. The faculty are expected to develop outstanding graduate education programs that will afford students the opportunity to participate in all aspects of research. The College recognizes that graduate education requires strong mentoring along with traditional classroom instruction. An ancillary but important mission of the College is education outreach for students at all levels and for the public at large. Our outreach programs have significantly expanded our educational responsibilities, and they are intended to movtivate all generations to become scientifically literate citizens and to understand the environment in which they live.

The College pursues innovative avenues for educational outreach. Efforts are made to attract more junior and senior level undergraduates into both the ocean science core courses and into advanced courses for which they have pre-requisites. Historically, this is a way in which students have made career decisions to engage in ocean science. In this manner the College maintains close ties with the student body in other University of South Florida Colleges and campuses.

The College of Marine Science's specialized laboratories include those for trace metal analysis, water quality, organic and isotope geochemistry, physical chemistry, optical oceanography, satellite imagery, sedimentology, geophysics, physical oceanography, micropaleontology, physiology, benthic ecology, microbiology, planktology, and ichthyology. The College has a large flume facility and laser Doppler velocimeter for interdisciplinary boundary layer studies. It is often the case that a student's research is primarily conducted at sea. Bayboro Harbor can accommodate any ship in the fleet of the U.S. oceanographic vessels, and is home-port to the principal vessels operated by the Florida Institute of Oceanography for the entire State University System. Marine science students frequently participate in Gulf of Mexico cruises on either of two FIO vessels, the R/V Suncoaster (110ft) and the R/V Bellows (71ft). Ship time on other vessels in the U.S. fleet of oceanographic vessels, as well as foreign research vessels, is generally obtained through federal funding. Over the past decade, the College's students and faculty have conducted research in the Antarctic, Atlantic, Indian, and Pacific Oceans, as well as the Norwegian, Bering, Mediterranean and Caribbean Seas.

Major Research Areas:
Refer to College Information above.

Types of Degrees Offered:
Master of Science (M.S.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Science M.S.
Marine Science

Doctor of Philosophy Ph.D.
Marine Science

Concentrations:
Biological Oceanography (M.S., Ph.D.)
Chemical Oceanography (M.S., Ph.D.)
Geological Oceanography (M.S., Ph.D.)
Physical Oceanography (M.S., Ph.D.)
Interdisciplinary

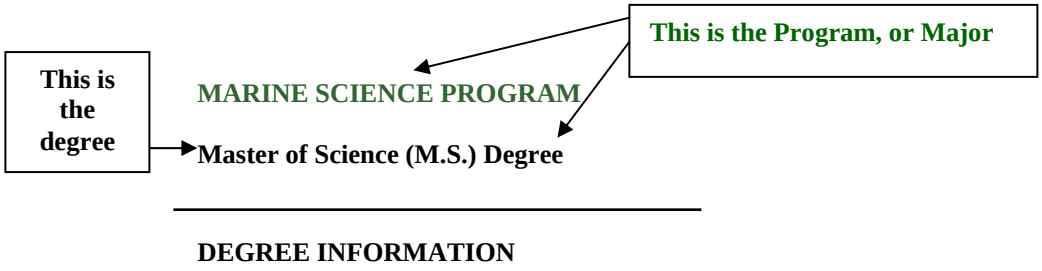
Graduate Certificates Offered:
n/a

COLLEGE REQUIREMENTS
Refer to College website for information

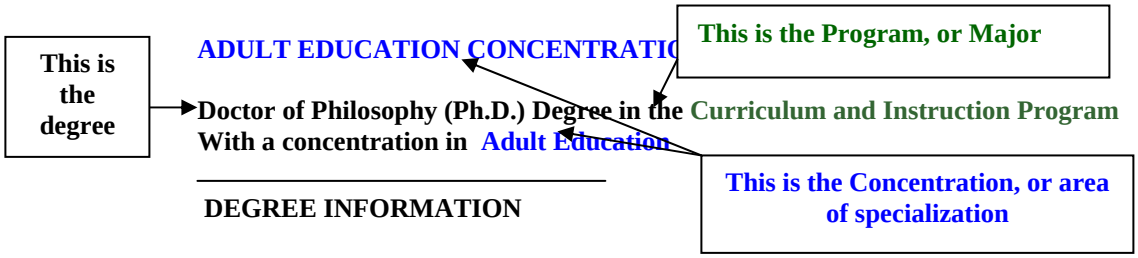
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

MARINE SCIENCE PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Citizens:
Fall: January 15
Spring: October 1

Internatational Students
(not currently residing in U.S.):
Fall: January 2
Spring: July 1

International Students
(currently residing in U.S.:):
Fall: January 15
Spring: September 1

Minimum Total Hours: 32
Program Level: Masters
CIP Code: 40.0607
Dept Code: MSC
Program (Major/College): MSC MS

Concentrations available in:
Biological Oceanography (BOC)
Chemical Oceanography (COB)
Geological Oceanography (GOG)
Physical Oceanography (POG)
Interdisciplinary (IDY)

CONTACT INFORMATION

College: Marine Science

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The College of Marine Science (CMS) offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 30 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and college facilities is available from the College upon request.

The College's location on St. Petersburg's Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home-port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the State University System. The College's principal building is shared with FIO and is adjacent to the Fish and Wildlife Research Institute (FWRI), the research arm of the Florida Fish and Wildlife Conservation Commission (FWCC). A recently completed research building shared by CMS and FWCC houses a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of CMS graduate students.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

A. Bachelor's degree or equivalent from a regionally accredited university (Preferable

majors include biology, chemistry, geology, physics or math)

B. Have earned a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree

C. Have completed all of the coursework listed on our website (http://www.marine.usf.edu) under "Undergraduate Preparation"

D. Have taken the Graduate Record Examination (GRE) within 5 years preceding application. The scores generally considered acceptable by the College are as follows: Verbal = 500, Quantitative = 600

E. Have the commitment of a Marine Science faculty member to serve as advisor during the student's graduate studies.

DEGREE PROGRAM REQUIREMENTS

A committee, consisting of a major advisor and at least 2 other members of the graduate faculty, will be appointed to supervise and guide the program of each student. Students must complete a minimum of 32 credits under the following areas:

1. Core courses completed with a grade of "B" or better:
OCB 6050
OCC 6050
OCG 6051
OCP 6050

2. Six (6) credits of OCE 6971

3, Other coursework as required by thesis advisory committee

4. Students must also complete a thesis and pass a final oral examination conducted by members of the student's advisory committee.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MARINE SCIENCE PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Citizens:
Fall: January 15
Spring: October 1

Internatational Students
(not currently residing in U.S.):
Fall: January 2
Spring: July 1

International Students
(currently residing in U.S.:):
Fall: January 15
Spring: September 1

Minimum Total Hours: 90
Program Level: Doctoral

CIP Code: 40.0607
Dept Code: MSC
Program (Major/College): MSC MS

Concentrations available in:
Biological Oceanography (BOC)
Chemical Oceanography (COB)
Geological Oceanography (GOG)
Physical Oceanography (POG)
Interdisciplinary (IDY)

CONTACT INFORMATION

College: Marine Science

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The College of Marine Science (CMS) offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in oceanographythrough course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 28 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and college facilities is available from the College upon request.

The college's location on St. Petersburg's Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home-port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the State University System. The college's principal building is shared with FIO and is adjacent to the Fish and Wildlife Research Institute (FWRI), the research arm of the Florida Fish and Wildlife Conservation Commission (FWCC). A recently completed research building shared

by CMS and FWCC houses a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of CMS graduate students.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

A. Bachelor's degree or equivalent from a regionally accredited university (preferable majors include biology, chemistry, geology, physics or math). Master's degree in one of the above sciences highly preferable.

B. Have earned a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree.

C. Have completed all of the coursework listed on our website (http://www.marine.usf.edu) under "Undergraduate Preparation"

D. Have taken the Graduate Record Examination (GRE) within 5 years preceding application. The scores generally considered acceptable by the college are as follows: Verbal = 500, Quantitative = 600

E. Have the commitment of a Marine Science faculty member to serve as advisor during the student's graduate studies.

DEGREE PROGRAM REQUIREMENTS

A committee, consisting of a major advisor and at least 4 other members of the graduate faculty, is appointed to supervise and guide the program of the candidate. One member shall be from a science department outside Marine Science. Students must complete a minimum of 90 credits beyond the Bachelor's degree, and must complete the following:

1. A core program consisting of OCB 6050, OCC 6050, OCG 6051, and OCP 6050 with a grade of "B" or better,

2, Other coursework as required by thesis advisory committee

3. A comprehensive qualifying exam consisting of a written and oral portion., A student must receive a passing vote on the qualifying exam from at least 4 committee members before admission to Ph.D. candidacy.

4. A minimum of 16 credits of OCE 7980. Following admission to candidacy, the student must enroll in OCE 7980 when engaged in research, data collection, or writing activities relevant to the dissertation. The student is required to accumulate a minimum of 6 credits during each previous 12 month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.

5. A dissertation, and a dissertation defense examination.

COURSES

http://www.ugs.usf.edu/sab/sabs.cfm

Section 21

College of Medicine

University of South Florida
College of Medicine
12901 Bruce B. Downs Blvd. MDC40
Tampa, FL 33612-4799

Web address:
www.health.usf.edu/medicine/graduatestudies

Email: fjackson@health.usf.edu
Phone: 813-974-2256
Fax: 813-974-4317

College Dean: Steven Klasko
Interim Associate Dean: Michael Barber
Interim Graduate Coordinator: Michael Barber

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools

Mission Statement:
The College of Medicine Graduate Faculty consist of scientists who conduct research in many fields of science basic to understanding disease processes and to the development of improved methods of diagnosis, treatment and prevention of disease. Students receive their research training in up-to-date methods of scientific investigation and gain experience in modern well-equipped laboratories. The faculty is dedicated to providing high quality education in an environment conducive to scholarly activity and scientific achievement.

Candidates for the Ph.D. in Medical Science enter into an interdisciplinary program enabling them to major in any one of the six concentrations that are offered. Collaboration among laboratory scientists of all disciplines is encouraged. The programs of study allow students to tailor their programs to individual needs and interests. Thanks to faculty research awards, students have a multitude of opportunities to participate in cutting-edge research projects. Medical Science Ph.D. graduates go on to become deeply involved in research sponsored by academic, industrial and government institutions

The master's degree in Medical Sciences (M.S.) can be completed in as little as one year and has been designed to assist students who are seeking admissions into doctoral programs (Ph.D. or M.D.). Successful graduates of the Medical Science master's program can improve their chances for admissions into professional programs by further developing their foundational knowledge of biomedical science. Currently, the Medical Sciences master's degree program boasts a ninety percent success rate for adequately preparing students for entry into doctoral or professional programs.

Financial Aid - A limited number of assistantships, fellowships, and tuition waivers are available for doctoral students.

Major Research Areas:
Allergy, Immunology and Infectious Diseases
Cancer Biology
Cardiovascular Research
Neuroscience Research

Degrees and Programs Offered:

Master of Science (M.S.M.S.)
Medical Sciences

Master of Arts(M.A.B.M.H.)
Bioethics and Medical Humanities

Master of Science (M.S.B.C.B.)
Bioinformatics and Computational Biology

Master of Science
Biotechnology

Doctor of Philosophy (Ph.D.)
Medical Sciences

Doctor of Physical Therapy (D.P.T.)
Physical Therapy

Dual Program in Physical Therapy (D.P.T.) and Public Health (M.P.H.)

Combined M.D./Ph.D. Program

Concentrations available in:
Aging and Neuroscience (M.S.M.S.)
Anatomy (Ph.D.)
Biochemistry and Molecular Biology (Ph.D.)
Clinical and Translational Research (M.S.M.S.)
Microbiology and Immunology (Ph.D.)
Molecular Medicine (M.S.M.S.)
Neuroscience (Ph.D.)
Pathology & Laboratory Medicine (Ph.D.)
Pharmacology & Therapeutics (Ph.D.)
Physiology & Biophysics (Ph.D.)
Women's Health (M.S.M.S.)

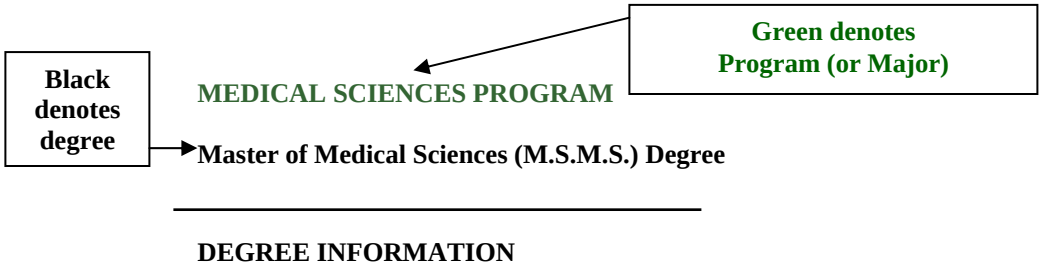
Graduate Certificates Offered:
Aging and Neuroscience
Biochemistry & Molecular Biology
Bioinformatics
Biostatistics
Biotechnology
Cardiovascular Engineering
Clinical Investigation
Molecular Medicine
See: http://www.outreach.usf.edu/gradcerts/

COLLEGE REQUIREMENTS:
Refer to College for information.

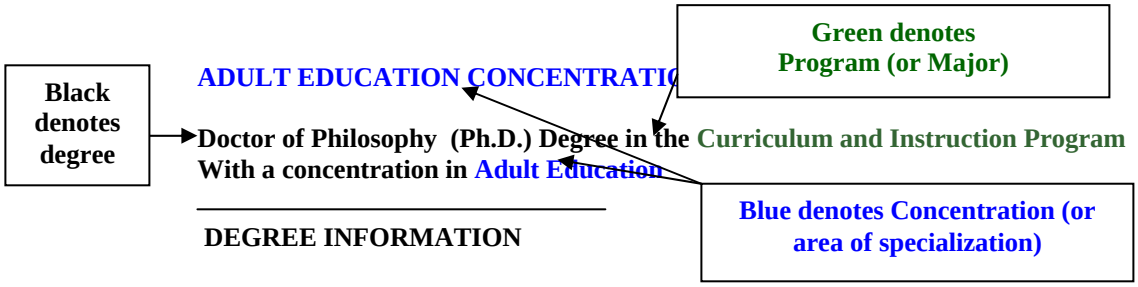
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

BIOETHICS AND MEDICAL HUMANITIES PROGRAM

Master of Bioethics and Medical Humanities (M.A.B.M.H.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 36
Program Level: Masters
CIP Code: 51.3201
Dept Code: MED
Program (Major/College): BMH MD

CONTACT INFORMATION

College: Medicine
Department: Biomedical and Medical Humanities

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

This innovative program, the first in Florida to combine bioethics and medical humanities, is designed to prepare leaders for increasingly complex healthcare concerns, especially those raised by advancements in technology, the distribution of scarce resources, and emerging global tensions. It is designed to focus on questions associated with genetic research and therapy, new reproductive technologies, health care delivery systems, end-of-life decisions, bio-terrorism, and numerous challenges associated with cultural sensitivities and competencies. The program is founded on the premise that questions posed by contemporary health care dilemmas, whether local, national or international, do not reside within the province of any single discipline, but require collaborative integration of insights from science, humanities, history, law, medicine, public health, nursing, philosophy, education and social-behavioral sciences.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. BA or equivalent degree from a regionally accredited university, with a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working toward a baccalaureate degree; AND
2. Graduate Record Examination (GRE) scores (500V, 500Q) OR
3. GMAT scores of 500 or better; OR
4. An equivalent measure approved by the Board of Trustees, taken within five years preceding application

Applicants to the program will be expected to have some competency in basic research design and methods (either qualitative or quantitative) that will be determined from student transcripts. Students who do not meet this prerequisite will be encouraged to enroll in USF courses that provide this foundation.

DEGREE PROGRAM REQUIREMENTS

Four required core courses (12 credit hours) and
Research Ethics Seminar (3 credit hours)
Four Elective courses (12 credit hours)
Two internships (6 credit hours)
Thesis project or three month internship (6 credit hours)

Core Courses
BMS 6821 Medical Ethics and Humanities
BCH 6411 Biomedical Genomics and Genetics
BCH 6xxx Philosophical and Religious Perspectives on Ethics
BCH 6xxx Bioethics in Contemporary Society

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

BIOINFORMATICS AND COMPUTATIONAL BIOLOGY PROGRAM

Master of Bioinformatics and Computational Biology (M.S.B.C.B.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 42
Program Level: Masters
CIP Code: 26.1103
Dept Code: MED
Program (Major/College): BCB MD

CONTACT INFORMATION

College: Medicine
Department: Biomedical and Medical Humanities

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Masters Program in Bioinformatics and Computational Biology at the University of South Florida represents a multi-college partnership and a truly interdisciplinary collaboration. Participating departments include the Departments of Biochemistry & Molecular Biology in the College of Medicine, Mathematics in the College of Arts and Sciences, Computer Sciences and Engineering and the Division of Biomedical Engineering in the College of Engineering, Epidemiology & Biostatistics in the College of Public Health and Information Systems & Decision Sciences in the College of Business Administration. The program is designed to meet the increasing demand for trained people in this emerging area, which crosses the traditional fields of biological, mathematical and computer sciences. The program, therefore, builds on and complements the current strengths of the university.

The goal of the Masters Program in Bioinformatics & Computational Biology is to provide students enrolled in the program with high quality training and education that will prepare them for careers in science, industry, health care and education. The curriculum has been designed accordingly and provides the theoretical background, the practical training and, with the internships, the "real life" experience, which will equip students with the essential tools for a successful career in the field of Bioinformatics & Computational Biology.

The Masters Program in Bioinformatics & Computational Biology is designed for 40 credit hours to be obtained during two years of study. Nine core courses will provide the foundation and basics before advanced work, including four electives, and a Master's thesis or internship will be pursued. The curriculum is flexible and will be tailored to the individual student's background, interests and career goals. However, electives must be selected from at least two of the participating departments to assure breadth of training. Exceptional students with extra motivation and commitment can enroll in the Ph.D.- PLUS program. The Ph.D.-PLUS program provides the opportunity to study for a Ph.D. in Biochemistry and Molecular Biology and a Master's degree in Bioinformatics and Computational Biology concurrently. Nine credit hours can be double credited. http://biochem.usf.edu/phdplus/index.html

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. A bachelor's degree or equivalent from a regionally accredited university
2. Minimum overall grade-point average of 3.0 out of a possible 4.0 with a minimum grade-point average of 3.0 in the sciences
3. Graduate Record Examination
4. Completed pre-requisites in:
    a. Calculus I-III
    b. Linear algebra
    c. Biostatistics
    d. At least "C" and "maple" or "mathematica" or "math-cad"
    e. General biology (1 year)
    f. Organic chemistry (1 year)

DEGREE PROGRAM REQUIREMENTS

Prerequisites:
Calculus I-III, linear algebra, biostatistics, at least "C" and "maple" or "mathematica" or "math-cad", one year of general biology and one year of organic chemistry.

Required courses:

GMS 6200	Core Course in Medical Biochemistry	3-5
BCH 6888	Bioinformatics I	3
MAT 5932	Selected Topics in Combinatorics and Graph Theory	3
BCH 6411	Biomedical Genomics and Genetics	
GMS 7930	Bioinformatics II	3
MAT 5932	Selected Topics in Probability Theory	3
GMS 7930	Research Ethics	2
CIS 6930	Advanced Data Structures	3
MAT 6932	Selected Topics in Bioinformatics and Computational Biology	2

Complete M.S. Thesis Project or Internship 4-6

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MEDICAL SCIENCES PROGRAM

Master of Science in Medical Sciences (M.S.M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 26.9999
Dept Code: MED
Program (Major/College): MSG MD

Concentrations Available in:
Aging and Neuroscience (ANS)
Clinical and Translational Research (CTR)
Molecular Medicine (MLM)
Women's Health (WSH)

CONTACT INFORMATION

College: Medicine
Department: Medical Sciences

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The program is designed to provide students with advanced training in either Anatomy, Biochemistry, Medical Microbiology, or Pharmacology. Students successfully completing the program will have a foundation that will prepare them for a higher degree in biomedical science such as a M.D. or Ph.D. or qualify them to work as teachers or research assistants in academia or in the private sector.

The program will provide a solid core of training in the latest findings, concepts, and experimental techniques. Students will be allowed to individualize their training through elective courses and will have the opportunity to conduct laboratory research. The program is intended for students who wish training beyond a baccalaureate degree but do not wish to commit to a Ph.D. program or do not meet the qualifications required for admissions into a M.D. or Ph.D. program.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. A bachelor's degree or equivalent from a regionally accredited university
2. Minimum overall grade-point average of 3.0 out of a possible 4.0 with a minimum grade-point average of 3.0 in the sciences*
3. GRE or MCAT
4. Completed pre-requisites in:
    a. General biology (1 year)
    b. General chemistry (1 year)
    c. General physics (1 year)
    d. Organic chemistry (1 year)
    e. Quantitative analysis (1 course)
    f. Mathematics including integral and differential calculus

DEGREE PROGRAM REQUIREMENTS

Degree requirements are individualized according to research interests and goals. Thirty credit hours minimum.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

MEDICAL SCIENCES PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 26.9999
Dept Code: MED
Program (Major/College): MSG MD

Concentrations available in:
Anatomy (ANA)
Biochemistry and Molecular Biology (BMB)
Microbiology and Immunology (MMI)
Neuroscience (NEU)
Pathology and Laboratory Medicine (PLM)
Pharmacology and Therapeutics (PAT)
Physiology and Biophysics (PAB)

CONTACT INFORMATION

College: Medicine
Department: Medical Sciences

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The program is designed to provide students with a broad knowledge in the basic medical sciences, while preparing them for careers as effective and knowledgeable teachers, as well as productive and versatile researchers. To meet these objectives, students take courses in the medical sciences and related areas, participate in seminars, and receive individual research training. Departmental advisory committees counsel the entering students in planning their first year curriculum. In addition to course work and participation in seminars, first year students are expected to become familiar with ongoing research in their chosen department; when possible, they are encouraged to work on a part-time basis as research assistants in their department. Once the student selects a major professor, a formal dissertation committee is appointed. The dissertation committee assists the student in planning the research and course of study, evaluates the student's progress, supervises the comprehensive examination, and conducts the final dissertation defense.

By the end of the second year, a student has usually completed sufficient course work and met the other research requirements to take the comprehensive qualifying examination. Successful completion of this examination leads to formal admission to candidacy for the Ph.D. degree. The final phase of the program emphasizes research and independent study and leads to a written dissertation. The Ph.D. degree is awarded upon successful completion and oral defense of the dissertation. Departments within the College of Medicine may have additional requirements that pertain to their respective training program. Contact the department for information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Allergy, Immunology and Infectious Diseases Cancer Biology
Cardiovascular Research
Neuroscience Research

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. A bachelor's degree or equivalent from a regionally accredited university
2. Minimum overall grade-point average of 3.0 out of a possible 4.0 with a minimum grade-point average of 3.0 in the sciences
3. Graduate Record Examination (minimum 600Q)
4. Completed pre-requisites in:
    a. General biology (1 year)
    b. General chemistry (1 year)
    c. General physics (1 year)
    d. Organic chemistry (1 year)
    e. Quantitative analysis (1 course)
    f. Mathematics including integral and differential calculus
5. Three (3) letters of recommendation
6. Personal Interview
7. One-two page personal statement

DEGREE PROGRAM REQUIREMENTS

Degree requirements are individualized according to research interests and goals. Ninety credit hours minimum including 24 minimum directed research hours.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

PHYSICAL THERAPY PROGRAM

Doctor of Physical Therapy (D.P.T.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Rolling Admissions. One class admitted each August. Contact program for details.

Minimum Total Hours: 107
Program Level: Doctoral Professional
CIP Code: 51.2308
Dept Code: PHT
Program (Major/College): MPT MD

CONTACT INFORMATION

College: Medicine
Department: School of Physical Therapy and Rehabilitation Sciences

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Physical therapists are health professionals with special expertise in the science of movement. They use this knowledge to provide preventive and therapeutic services and psychological support to people of all ages with movement dysfunction. Professional education includes study of basic sciences and the professional skills needed for client examination, evaluation, diagnosis, prognosis, intervention and outcomes. Students will participate in comprehensive clinical internships throughout the program. The School of Physical Therapy and Rehabilitation Sciences is a component of the College of Medicine and is a limited access first professional degree program with an annual enrollment of up to 36 students per year. Students complete the majority of their first year studies on a parallel path with the first year curriculum in medicine.

Accreditation:
Accredited by the Commission on Accreditation in Physical Therapy Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Have a bachelor's degree or equivalent from a regionally accredited university, and completion of prerequisite courses.

2. Have earned a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree; overall GPA of 3.0 and on all prerequisite coursework..

3. Interview upon request of the School of Physical Therapy and Rehabilitation Sciences.

4. Have at least 20 total hours of documented, observational, volunteer or other work experience in both hospital outpatient and inpatient physical therapy settings

5. English competency. Applicants who have completed a degree in which English is not the primary language of instruction must present evidence of competency to pursue studies in the English language prior to being extended an offer of admission. Acceptable English language proficiency tests for applicants to the Doctor of Physical Therapy program are: TOEFL (Test of English as a Foreign Language) a minimum score of 600 (paper version); 230 (computer version).

6. Have a written autobiographical statement of personal values and purpose for attending USF's DPT Degree Program. ***

*** This requirement will be effective for applicants applying for 2006 admission.***

DEGREE PROGRAM REQUIREMENTS

Students must complete 107 credit hours of professional coursework and meet the general graduate requirements of the School of Physical Therapy and Rehabilitation Sciences and College of Medicine for admission and graduation.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

PHYSICAL THERAPY AND PUBLIC HEALTH PROGRAM

Dual Degree Program
Doctor of Physical Therapy (D.P.T.) and Master of Public Health (M.P.H.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Rolling Admissions. One class admitted each August. Contact program for details.

Minimum Total Hours: Contact Programs
Program Level: Professional/Masters
Program Status: Active
CIP Codes: 51.2308/
Dept Code: PHT/
Program (Major/College): MPT MD

CONTACT INFORMATION

Colleges: Medicine and Public Health
Departments: School of Physical Therapy and Rehabilitation Sciences and Public Health

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Physical therapists are health professionals with special expertise in the science of movement. They use this knowledge to provide preventive and therapeutic services and psychological support to people of all ages with movement dysfunction. Professional education includes study of basic sciences and the professional skills needed for client examination, evaluation, diagnosis, prognosis, intervention and outcomes. Students will participate in comprehensive clinical internships throughout the program. The School of Physical Therapy and Rehabilitation Sciences is a component of the College of Medicine and is a limited access first professional degree program with an annual enrollment of up to 36 students per year. Students complete the majority of their first year studies on a parallel path with the first year curriculum in medicine.

Accreditation:
Accredited by the Commission on Accreditation in Physical Therapy Education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Contact programs for complete information.

Program Admission Requirements

1. Have a bachelor's degree or equivalent from a regionally accredited university, and completion of prerequisite courses.

2. Have earned a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree; overall GPA of 3.0 and on all prerequisite coursework..

3. Interview upon request of the School of Physical Therapy and Rehabilitation Sciences.

4. Have at least 20 total hours of documented, observational, volunteer or other work experience in both hospital outpatient and inpatient physical therapy settings

5. English competency. Applicants who have completed a degree in which English is not the primary language of instruction must present evidence of competency to pursue studies in the English language prior to being extended an offer of admission. Acceptable English language proficiency tests for applicants to the Doctor of Physical Therapy program are: TOEFL (Test of English as a Foreign Language) a minimum score of 600 (paper version); 230 (computer version).

6. Have a written autobiographical statement of personal values and purpose for attending USF's DPT Degree Program. ***

*** This requirement will be effective for applicants applying for 2006 admission.***

DEGREE PROGRAM REQUIREMENTS

Contact programs for complete information.

Students must complete 107 credit hours of professional coursework and meet the general graduate requirements of the School of Physical Therapy and Rehabilitation Sciences and the College of Medicine for admission and graduation.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

Section 22

College of Nursing

University of South Florida
College of Nursing
12901 Bruce B. Downs Blvd. MDC22
Tampa, FL 33620

Web address:
http://hsc.usf.edu/nocms/nursing/index.html
Email: vwisenee@health.usf.edu
Phone: 813-974-2191
Fax: 813-974-5418

College Dean:	Patricia Burns
Associate Dean of Research	Mary Evans
Associate Dean of Academic Affairs	Mary Webb

Graduate Coordinators:	
Ph.D. Program Coordinator:	Mary Evans
DNP Program Coordinator:	Mary Webb
Masters Program Coordinator:	Mary Webb
College Contact:	Victoria Wise-Neely

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools, and the National League for Nursing Accreditation Commission, 61 Broadway, New York, NY 10006; (212) 363-5555 extension 153, and the Commission on Collegiate Nursing Education, One Dupont Circle, Suite 530, Washington D.C. 20036-1120:(202) 887-6791.

Mission Statement:
The College of Nursing is committed to advance the science and practice of the profession by creating environments conducive to learning, scholarly inquiry, and the development of innovative community partnerships. The College of Nursing is dedicated to achieving national recognition for its contributinos to improving health care outcomes.

Major Research Areas:
Research opportunities include: Quality of Life/ End of Life; Heart Disease and Women, Women, Children, Families and Communities; Health Services Research, Interdisciplinary Mental Health, Obesity, Psyhoneuroimmunology, Patient Safety.

Degrees Offered:
Master of Science (M.S.), Doctor of Philosophy (Ph.D.), Doctor of Nursing Practice (D.N.P.), Dual Degree M.S./MPH in Occupational Health Nursing/Adult Nurse Practitioner

Name of Programs Offered:
Nursing

Concentrations:
Acute Care Nurse Practitioner
Adult Nurse Practitioner
Pediatric Nurse Practitioner
Clinical Nurse Leader
Family Nurse Practioner
Gerontological Nurse Practitioiner
Oncology Nurse Practitioner
Nurse Anesthesia
Nursing Education
Occupational Health Nursing
Psychiatric-Mental Health Nurse Practiioner

COLLEGE REQUIREMENTS

For specific degree requirements for the M.S. and Ph.D. programs in Nursing, refer to the Nursing Program Information

Graduate Certificates Offered:
See: http://www.outreach.usf.edu/gradcerts/
Hospice, Palliative Care and End of Life Studies Nursing ,
Post Master's Nurse Practitioner: Adult Health, Child Health, Family Health, Psych/Mental Health, , Gerontology, Oncology Nursing, Nursing Education. The credit hours will vary depending on the area of specialization.

Baccalaureate Degree (Nursing) to Master's Degree Program (BS to MS)

Nurses with a baccalaureate degree in nursing are prepared to enroll directly in graduate course work. The total number of credits required is specific to the nursing concentration. Admission criteria include:

- BS (Nursing) from an accredited program
- Earned grade point average of 3.0 or higher on 4.0 scale
-
- Courses in UG health assessment, research, and statistics
- Current license as a registered nursing in the State of Florida
- Three letters of recommendation
- Current resume or curriculum vita
- Written statement of professional goals
- A personal interview with a designated faculty member may also be required
- Some concentrations may have additional practice requirements

Registered Nurse to Master's Degree Program (RN to MS)

The RN/MS option is designed for registered nurses who have earned a baccalaureate degree in another discipline. The student must also complete the following courses at the undergraduate level before admission to the Master's program: statistics, research, health assessment, community health theory and community health clinical practice.

- BS/BA from an accredited program
- Earned grade point average of 3.0 or higher on 4.0 scale
- Courses in health assessment, research, statistics, community health theory and clinical
- Current license as a registered nursing in the State of Florida
- Three letters of recommendation
- Current resume or curriculum vita
- Written statement of professional goals
- A personal interview with a designated faculty member may also be required
- Some concentrations may have additional practice requirements

Associate Degree in Nursing to Master's Degree (ADN to MS)

The ADN/MS option allows the Associate Degree in Nursing prepared nurse to access gradaute study directly. Students complete 18 credit hours of coursework in the baccalaureate program before applying to the Graduate Program and taking the GREs.

- Associate Degree (Nursing) from an accredited program
- Earned grade point average of 3.0 or higher on 4.0 scale
- Completion of general education and state mandated prerequisites
- Current license as a registered nursing in the State of Florida
- Three letters of recommendation
- Current resume or curriculum vita
- Written statement of professional goals
- Completion of 18 undergraduate nursing credits with 3.0 GPA
- A personal interview with a designated faculty member may also be required
- Some concentrations may have additional practice requirements

Note: The GRE is required only for the Nurse Anesthesia Program and the Doctoral Programs (Ph.D. and D.N.P.)

PROGRESSION POLICY

Effective Fall 2004 And Applies To All Graduate Students (Current and New)

Graduate students must earn the grade of B or higher (B minus is not acceptable) in each required course in their respective nursing program. Graduate students must also maintain an overall average of 3.0 (B) in order to be considered to be "in good standing. " Students also must meet any special conditions of their admissions. No grade below C will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall

GPA of 3.0 at the completion of their respective program, or they will not be awarded a degree from the University of South Florida.

If a student earns a grade below a B in a required course, she/he must repeat the course. The course must be taken in the next semester that it is offered and the student must earn a B or higher. Any student, who earns below a B in two or more required courses or earns below a B in a required course twice, will be dismissed from the College. The Dean of the College of Nursing, or her designee (Associate Dean of Academic Affairs or the Associate Dean of Reserach), will notify students who are dismissed, in writing.

Clinical Performance

Patient safety and welfare are the most critical criteria of the clinical rotation. If at any time during the clinical rotation the student places the patient in an actual or potentially hazardous or unsafe situation or the faculty judges the student to be deficient in clinical competence for patient care responsibility, the student will fail the course regardless of previous clinical performance. Students who receive an unsatisfactory grade for their clinical performance may be dismissed from the program, regardless of academic standing in other classes.

Human Research Conduct

The protection of the rights of human subjects is the most critical criteria of any research study involving human subjects. If at any time during the conduction of a human subject study, a student violates the rights of the participants, the study will be stopped. Permission to continue with the study will be dependent upon an investigation by the University of South Florida Institutional Review Board, the student's research advisor and the Dean of the College of Nursing.

Progression Process

Any student who is not in good standing at the end of a semester shall be placed on probation. The College may also place students on probation for other reasons as designated. The Associate Dean shall make notification of probation in writing to the student, the student's program coordintator, and the Student Affairs Committee. The student shall meet with their program coordinator to develop a Probation Plan detailing the plan for removal of probationary status. The Associate Dean shall approve the Plan. A copy of the approved Plan will be given to the student and program coordinator, a written copy will also be placed in the student's academic record.

At the end of the probationary semester, the program coordinator shall review the student's progress and compliance with the Probationary Plan, and recommend to the Student Affairs Committee one of the three alternatives: (1) Removal of probation, (2) Continued probation and continuance of the Probation Plan, and (3) Dismissal from the degree program. The Student Affairs committee shall make a recommendation, in writing, to the Associate Dean (s). for The Associate Dean shall notify the student in writing of his/her academic status.

The Dean of the Graduate School, upon recommendation by the Dean of the student's College, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two semesters of probationary status will result in termination of benefits.

Approved at March 2003 Faculty Council.
Approved December 15, 2003 Graduate Council
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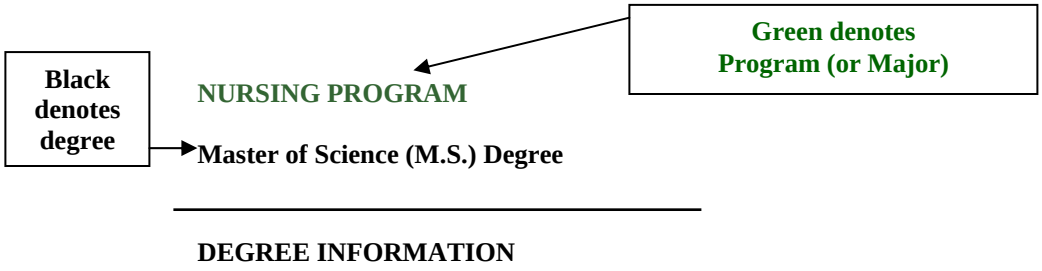
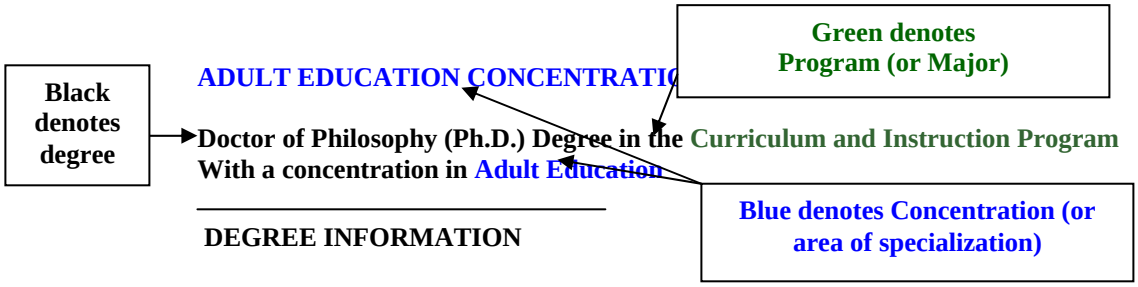
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

NURSING PROGRAM

Master of Science (M.S.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 44-62
Program Level: Masters
CIP Code: 51.1601
Dept Code: NUR
Program (Major/College): NUR NR

Concentrations available in:

Academic Role (NAR)
Acute Care Nursing (NAC)
Adult Health Nursing (NAH)
Child Health Nursing (NCH)
Clinical Nurse Leader (NCL)
Family Health Nursing (MFH)
Gerontological Nursing (NGE)
Health Systems Informations (CNLCNL)
Nurse Anesthesia* (NAN)
Nursing Education (NED)
Occupational Health Nursing (NOH)
Oncology Nursing (NON)
Psychiatric-Mental Health Nursing (NPM)

*Nurse Anesthesia students are admitted only once a year. See web site for more information.

Also offered as: Dual Degree M.S./MPH in Occupational Health Nursing/Adult Nurse Practitioner

CONTACT INFORMATION

College: Nursing
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Applications are reviewed as files are completed. Check published admission dates for a given semester.

The program in nursing leading to a Master of Science degree prepares its graduates for careers in advanced practice, nursing education and nursing administration and informatics or as clinical nurse leaders.. Students choose from a variety of nursing specialty options in advanced practice roles and enroll in a prescribed set of core courses central to all specialty options as well as specialty courses and electives.

Successful completion of the master's program in advanced nursing practice (Adult, Health, Family Health, Child Health, Oncology Nursing, and Psychiatric-Mental Health, Acute Care, Gerontology) meets the eligibility requirements for advanced practice licensure (ARNP-nurse practitioner) in Florida and qualifies students to take the specialty national certification examinations. Successful completion of the master's program in Healthcare Systems Leadership qualifies graduates to take the American Nurses' Association Credentialing Center examination in Nursing Administration. Successful completion of the concentration in Nursing Informatics qualifies graduates to take the American Nurses' Association Credentialing Center examination in nursing informatics.

Graduate Program Objectives

Graduates of the M.S. in Nursing at the University of South Florida are prepared to:

1. Synthesize knowledge from the natural and social sciences, the arts and humanities and the art of science of nursing in advanced practice nursing.

2. Apply principles of advanced nursing practice to improve health outcome culturally diverse and vulnerable populations.

3. Contribute to the advancement of the profession through research, consultation, collaboration, education, leadership and clinical excellence.

4. Influence the development of health policy through leadership as a clinical expert, client advocate, or professional participant in the health care delivery system.

5. Create a professional practice environment that values and integrates legal/ethical principles in the provision of quality health care.

6. Embrace the pursuit of life-long learning for professional development through participation informal and informal education.

7. Support excellence in health care delivery by utilizing research findings, participating in the research process and identifying new issues for further investigative development.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; National League for Nursing Accreditation Commission

Major Research Areas:
Research opportunities include: Quality of Life/ End of Life; Heart Disease and Treatment, Women, Children, Families and Communities; Health and Services Research, Interdisciplinary Mental Health, and Patient Safety.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

RN-BS(nursing)-MS
1. BS Nursing;
2. 3.0 GPA;
3. RN Licensure;
4. 3 letters reference;
5. CV;
6. Professional Goals

RN – BS/BS (non-nursing) – MS
1. BS/BA (non-nursing);
2. 3.0 GPA;
3. RN Licensure;
4. 3 letters reference;
5. CV;
6. Profession Goals;
7. Successful completion of designated courses: Physical Exam, Community Health Nursing (theory & clinical), Research, & Statistics

RN – MS
1. RN Licensure;
2. Admission to the baccalaureate program;
3. completion of sixty (60) hours of general education requirements;
4. Successful completion of eighteen (18) hours of nursing baccalaureate coursework: Physical Exam, Community Health Nursing (theory & clinical), Research, Leadership/Management, Ed Transitions;
5. 3.0 GPA;
6. 3 letters reference;
7. CV;
8. Professional Goals

Note: GRE is required for the CRNA students only.

DEGREE PROGRAM REQUIREMENTS

The M.S. program in nursing requires completion of the credit hours required by the concentration. Academic advisors work with students to design both full-time and part-time program plans in the specialty areas. The curricula for all advanced practice concentrations include the following components: theory-research component, advanced practice component, and specialty core. Students must complete either a thesis or take the Capstone Course: Writing for Publication.

The Master's Program for advanced practice concentrations is organized in three curriculum components:

1. Theory-Research Component (15 credit hours)
NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)
NGR 6080 Family & Population-Based Health Promotion (3)
NGR 6800 Nursing Research (3)
NGR 6135 Ethical, Legal & Policy Issues in Advanced Nursing (3)
NGR 6971 Thesis (3) Or
NGR 6950 Capstone Course: Writing for Publication (3)

2. Advanced Practice Component (9 credit hours)
NGR 6140 Pathophysiology for Advanced Practice (3)
NGR 6199 Pharmacology for Advanced Practice (3)
NGR 6001 Health Assessment in Advanced Practice (3)

3. Specialty Cores
Primary Care Advanced Practice - Specialty Core
Specialty Core (23 -20 credits)

Primary Care Concentrations:

NGR 6205	Primary Care: Adolescent/Women	(3)
NGR 6205L	PC Practicum: Adolescent/Women	(3)
NGR 6207	Primary Care: Adult	(3)
NGR 6207L	PC Practicum: Adult	(3)
NGR 6305	Primary Care: Child	(3)
NGR 6305L	PC Practicum: Child	(3)

NGR 6271	Adult Health Management	(3)
NGR 6371	Child Health Management	(3)
NGR 6700	Advance Practice Transitions	(2)
NGR 6700L	APN Transitions Practicum	(3)

Oncology – Specialty Core

NGR 6096	Oncology Nursing Concepts	(3)
NGR 6142	Pathobiology of Neoplasia	(3)
NGR 6207	Primary Care: Adult	(3)
NGR 6947L	Practicum I in Advanced Oncology Nursing	(3)
NGR 6948L	Practicum II in Advanced Oncology Nursing	(3)
NGR 6949L	Practicum III in Advanced Oncology Nursing	(3)
Electives		(3)

Psych/Mental Health – Specialty Core

NGR 6500	Theoretical Foundations for Advanced Psychiatric Nursing	(3)
NGR 6501	Psychopathology for Advanced Psychiatric Nursing	(3)
NGR 6502	Treatment Modalities for Advanced Psychiatric Nursing	(3)
NGR 6500L	Psychiatric ARNP Practicum: Psychiatric Care Outpatient	(3)
NGR 6501L	Psychiatric ARNP Practicum: Psychiatric Care Inpatient	(3)
NGR 6538	Psychopharmacology for Advanced Nursing Practice	(2)
NGR 6700	Advanced Practice Transitions	(2)
NGR 6700L	APN Transitions Practicum	(3)

CHOICE
Primary Care: Adult, Adolescents & Young Adult or Children (3)

Clinical Nurse Leader in Nursing (Generalist Masters)

NGR 6080	Family & Population-Based Health Promotion	(3)
NGR 6800	Nursing Research	(3)
NGR 6135	Ethical, Legal, and Policy Issues in Advanced Nursing Practice	(3)
NGR 6140	Pathophysiology for Advanced Practice	(3)
NGR 6199	Pharmacology for Advanced Practice	(3)
NGR 6001	Health Assessment in Advanced Practice	(3)
NGR 5635	Informatics in Nursing and Healthcare	(3)
NGR 6931	Epidemiology & Biostatistics for Nursing	(3)
NGR 6723	Applied Management in Nursing and Healthcare	(3)
NGR 6734	Healthcare Systems Leadership: Seminar	(2)
NGR 6734L	Healthcare Systems Leadership: Internship	(3)

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

PROGRESSION POLICY
USF College of Nursing

Effective Fall 2004 and Applies To All Graduate Students (Current and New)

Graduate students must earn the grade of B or higher (B minus is not acceptable) in each required course in their respective nursing program. Graduate students must also maintain an overall average of 3.0 (B) in order to be considered to be "in good standing. " Students also must meet any special conditions of their admissions. No grade below C will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall GPA of 3.0 at the completion of their respective program, or they will not be awarded a degree from the University of South Florida.

If a student earns a grade below a B in a required course, she/he must repeat the course. The course must be taken in the next semester that it is offered and the student must earn a B or higher. Any student, who earns below a B in two or more required courses or earns below a B in a required course twice, will be dismissed from the College. The Dean of the College of Nursing, or her designee (Associate Dean of Academic Affairs or the Associate Dean of Research), will notify students who are dismissed, in writing.

Clinical Performance

Patient safety and welfare are the most critical criteria of the clinical rotation. If at any time during the clinical rotation the student places the patient in an actual or potentially hazardous or unsafe situation or the faculty judges the student to be deficient in clinical competence for patient care responsibility, the student will fail the course regardless of previous clinical performance. Students who receive an unsatisfactory grade for their clinical performance may be dismissed from the program, regardless of academic standing in other classes.

Human Research Conduct

The protection of the rights of human subjects is the most critical criteria of any research study involving human subjects. If at any time during the conduction of a human subject study, a student violates the rights of the participants, the study will be stopped. Permission to continue with the study will be dependent upon an investigation by the University of South Florida Institutional Review Board, the student's research advisor and the Dean of the College of Nursing.

Progression Process

Any student who is not in good standing at the end of a semester shall be placed on probation. The College may also place students on probation for other reasons as designated. The Associate Dean shall make notification

of probation in writing to the student, the student's program director, and the Student Affairs Committee. The student shall meet with their program coordinator to develop a Probation Plan detailing the plan for removal of probationary status. The Associate Dean shall approve the Plan. A copy of the approved Plan will be given to the student and their program coordinator; a written copy will also be placed in the student's academic record.

At the end of the probationary semester, the program coordinator shall review the student's progress and compliance with the Probationary Plan, and recommend to the Student Affairs Committee one of the three alternatives: (1) Removal of probation, (2) Continued probation and continuance of the Probation Plan, and (3) Dismissal from the degree program. The Student Affairs committee shall make a recommendation, in writing, to the Associate Dean The Associate Dean shall notify the student in writing of their academic status.

The Dean of the Graduate School, upon recommendation by the Dean of the student's College, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two semesters of probationary status will result in termination of benefits.

Approved at March 2003 Faculty Council.
Approved December 15, 2003 Graduate Council

NURSING SCIENCE PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall:	March 15
Spring:	October 15
Summer:	March 1

Minimum Total Hours: 60-72
Program Level: Doctoral
CIP Code: 51.1608
Dept Code: NUR
Program (Major/College): NUS NR

CONTACT INFORMATION

College: Nursing

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Applications are reviewed as files are completed. Check published admission dates for a given semester.

The Ph.D. prepares scholars to 1) generate and disseminate knowledge through independent and/or collaborative efforts; 2) conduct intra/interdisciplinary research; (3) assume leadership roles in nursing education and practice; 4) influence the delivery of health care services, especially for high risk and medically underserved groups; and 5) educate future generations of nurses for health care delivery in the 21st Century through the use of innovative intra/interdisciplinary educational approaches.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Research opportunities include: Quality of Life/ End of Life; Heart Disease and Treatment; Women, Children, Families and Communities; Health and Services research, Interdisciplinary Mental Health, and Patient Safety.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

BS (Nursing) – Ph.D.

1. MS Nursing;
2. GRE
3. 3.0 GPA;
4. RN Licensure;
5. 3 letters reference;
6. CV;
7. Professional Goals;
8. Evidence of Commitment to Nursing Scholarship;
9. Potential;
10. Experience

M.S. (Nursing) – Ph.D.

1. MS Nursing;
2. GRE:
3. 3.0 GPA;
4. RN Licensure;
5. three letters reference;
6. CV;
7. Professional Goals;
8. Evidence of Commitment to Nursing Scholarship;
9. Potential;
10. Experience

DEGREE PROGRAM REQUIREMENTS

There are two programs of study that lead to the Ph.D. in Nursing.

MS (Nursing) - Ph.D.
A minimum of 60 hours post-master's is required. The program can be completed in three to four years by full-time students and five or more years for part-time students. Specific program requirements are determined on an individual basis by the student's supervisory committee.

Knowledge Building Core (Required)

NGR 7123	Theory Development in Nursing	(3)
NGR 7124	Advances in Nursing Science	(3)
NGR 7705	Academic Citizenship	(1)
	Or	
NGR 6712	Foundations of Nursing Education	(3)
NGR 7816	Research Designs and Methods in Nursing	(3)
NGR 7841	Statistical Methods in Nursing	

	Research I	(3)
NGR 7842	Statistical Methods in Nursing Research II	(3)
NGR 7xxx	Statistical Methods in Nursing Research III	(3)
NGR 7815	Qualitative Methods in Nursing Research	(3)
NGR 7823	Psychometrics and Measurement for Nursing Research	(3)
NGR 7941	Nursing Research Pro Seminar	(3)
NGR 7911	Ethics in Nursing and Health Care	(3)
NGR 7912	Health Policy Issues in Nursing and Health Care	(3)

Satisfactory completion of the Knowledge Building Core required courses prepares students to successfully complete the dissertation research.

Cognate (12-15 Credits)
Students select a cognate area to further support the student's area of expertise in nursing and the research problem that will be addressed by the dissertation research. Examples of appropriate areas of study for the cognate might be organizational administration, health policy, physiology, cognitive psychology, organizational psychology, gerontology, epidemiology, biostatistics, administration, applied anthropology, educational measurement or a nursing specialty.

Electives (3-6 Credits) Students must complete 3-6 elective credits. Three credits must be in research methods.

Qualifying Examinations:
The qualifying examination is to be completed as soon as the majority of core and minor coursework is completed. The purpose of the qualifying examination is to assess the student's level of scholarship and research skills and to determine if the student possesses the critical and analytical skills necessary to undertake the dissertation research.

Components of the qualifying examination for the College of Nursing

Written component: The written component of the qualifying examination consists of two parts:

a. Completion and submission of a manuscript to a refereed journal for publication.
b. Preparation and submission of a research grant application for funding to an appropriate agency.

Oral Examination Component: An oral examination component will be used to clarify and verify that the student has met the written components of the qualifying examination and will be used to formally admit the student to candidacy.

Dissertation (12- 24 Credits)
Students must complete and successfully defend a dissertation.

B.S. (Nursing) -Ph.D.
A minimum of 96 hours post-baccalaureate is required. The program is designed as a full-time four-year course of study.

Knowledge Building Core (Required)

NGR 6800	Nursing Research	(3)
NGR 6121	Theoretical Basis of Advanced Practice Nursing	(3)
NGR 6140	Pathophysiology for Advanced Practice Nursing	(3)
NGR 6001	Health Assessment for Advanced Practice	(3)
NGR 6199	Pharmacology for Advanced Nursing Practice	(3)
NGR 6931	SPSS Data Management	(3)
NGR 6950	Capstone: Writing for Publication	
NGR 7124	Advances in Nursing Science	(3)
NGR 7816	Research Designs and Methods in Nursing	(3)
NGR 7841	Statistical Methods in Nursing Research I	(3)
NGR 7842	Statistical Methods in Nursing Research II	(3)
NGR 7xxx	Statistical Methods in Nursing Research III	(3)
NGR 7815	Qualitative Methods in Nursing Research	(3)
NGR 7941	Nursing Research Pro Seminar	(3)
NGR 7123	Theory Development in Nursing	(3)
NGR 7823	Psychometrics and Measurement for Nursing Research	(3)
NGR 7911	Ethics in Nursing and Health Care	(3)
NGR 7912	Health Policy Issues in Nursing and Health Care	(3)
NGR 7915	Directed Research	(3)
NGR 6712	Foundations of Nursing Education	(3)
NGR 6822	Evaluation Strategies in Nursing Education	(3)
NGR 6747	Academic Nursing Practicum	(3)
NGR 6710	Teaching/Learning Strategies	(3)

Nursing Specialty (CHOICE) – 12 Credits
Psychiatric Mental Health
Adult Health
Child Health
Community/Public Health
Oncology
Informatics
Health Systems Leadership

Cognate 12-15 Credits
Students select a cognate area of study to further support the student's area of expertise in nursing and the research problem that will be addressed by the dissertation research. Examples of appropriate areas of study for the minor might be organizational administration, health policy, physiology, cognitive psychology, organizational psychology, gerontology, epidemiology, biostatistics,

administration, applied anthropology, educational measurement or a nursing specialty.

Electives (3-6 Credit Hours) Students must complete 3-6 elective credits. Three credits must be in research methods.

Qualifying Examinations:
The qualifying examination is to be completed as soon as the majority of core and minor coursework is completed. The purpose of the qualifying examination is to assess the student's level of scholarship and research skills and to determine if the student possesses the critical and analytical skills necessary to undertake the dissertation research.

Components of the qualifying examination for the College of Nursing

Written component: The written component of the qualifying examination consists of two parts:

a. Completion and submission of a manuscript to a refereed journal for publication.
b. Preparation and submission of a research grant application for funding to an appropriate agency.

Oral Examination Component: An oral examination component will be used to clarify and verify that the student has met the written components of the qualifying examination and will be used to formally admit the student to candidacy.

Dissertation 12- 24 Credits
Students complete and successfully defend a dissertation.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

NURSING SCIENCE PROGRAM

Doctor of Nursing Practice (D.N.P.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15
Spring: October 15

Minimum Total Hours: 52-72
Program Level: Doctoral
CIP Code: 51.1608
Dept Code: NUR
Program (Major/College): NUS NR

CONTACT INFORMATION

College: Nursing

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Applications are reviewed as files are completed. Check published admission dates for a given semester.

The DNP program prepares the graduate for the highest level of advanced nursing practice with individuals or populations. Advanced practice includes any form of nursing intervention that influences health care outcomes, including the direct care of patients, management of care for individuals asnd populations, admnistration for nursing and health care organizations, and the development of health policy.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Experience

M.S. (nursing) – DNP
1. MS Nursing;
2. GRE: 550 Verbal; 550 Quantitative (suggested)
3. 3.0 GPA;
4. RN/ARNP Licensure;
5. National Certification
6. 3 letters reference;
7. CV;
8. Professional Goals;

DEGREE PROGRAM REQUIREMENTS

MS (Nursing) - DNP
A minimum of 52 hours post-master's is required. The program can be completed in two to three years by full-time students and five or more years for part-time students. Specific program requirements are determined on an individual basis by the student's supervisory committee.

Knowledge Building Core (Required)

NGR 5871	Informatics in Nursing and Healthcare	(3)
PHC 6000	Epidemiology	(3)
NGR 6931	Statistics for Nursing Practice	(3)
NGR 6950	Capstone: Writing for Publication	(3)
NGR 7103	Evidence Based Practice	(3)
NGR 7141	Pathophysiology for Advanced Practice II	(3)
NGR 7xxx	Leadership & System Analysis	(3)
NGR 7911	Esthetics and Ethics in Nursing and Health Care	(3)
NGR 7912	Health Policy Issues in Nursing and Health Care	(3)
NGR 7932	Evidence Based Project	(4)
NGR 7932	DNP Residency	(6)

Advanced Practice Cognate

NGR 7003	Advanced Health Assessment II	(3)
NGR 7176	Pharmacotherapeutics	(3)
NGR 7xxx	Diagnostic Reasoning	(3)
NGR 7xxx	Advanced Practice Procedures	(3)

Electives

Leadership Cognate
Stuents complete a minimum of 15 credits of courses in Educational or healthcare leadership. Course may be Taken at Colleges throughout the University.

Section 23

College of Public Health

University of South Florida
College of Public Health
13201 Bruce B. Downs Blvd MDC56
Tampa, FL 33612

Web address: http://www.publichealth.usf.edu
Email: advisor@health.usf.edu
Phone: 813-974-6665
Fax: 813-974-8121

College Dean: Donna Petersen
Associate Dean: Karen Liller
Graduate Coordinator: Karen Liller

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education for Public Health and the MSPH in Industrial Hygiene is accredited by the Accreditation Commission of the Accreditation Board for Engineering and Technology.

Mission Statement:
The College of Public Health's mission is to promote public health through research, education and service. Goals include building strong focused research programs that reward and encourage scholarship and creative activities, continual improvement of academic programs and student centered learning, a college culture that supports our mission, vision, and values, a strong sustainable infrastructure, and active service and meaningful community engagement.

The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field is open to students from diverse academic disciplines including Health Sciences, Education, Business, Communication, Mathematics, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health careers as administrators, managers, educators, researchers, and direct service providers.

The College's five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. The program in Public Health Practice is College-wide.

Core content is directly related to addressing and meeting public health issues. Off campus or alternate calendar programs may reflect additional offerings to meet specific needs. The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes, online delivery of courses and graduate certificates, and a executive MPH for experienced health professionals.

The College hosts several College and Departmental based centers that augment the learning opportunities for students, including the Center for Biological Defense, Center for Leadership in Public Health Practice, Center for Positive Health, the Florida Health Information Center, the Global Center for Disaster Management and Humanitarian Action, The James and Jennifer Harrell Center for the Study of Family Violence, the Lawton and Rhea Chiles Center for Healthy Mothers and Babies, and the Florida Prevention Research Center.

Major Research Areas:
Faculty major research areas are quite varied and may be viewed on-line at http://publichealth.usf.edu/facultyaffaris.facultyprofile.html

Degrees Offered:
Master of Health Administration (MHA)
Master of Public Health (MPH)
Master of Science in Public Health (MSPH)
Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Health Administration - MHA
Public Health - MPH, MSPH, Ph.D.

Dual Degrees Offered:
Public Health and Anthropology (MPH/MA or Ph.D.)
Public Health and Medicine (MPH/M.D.) for already enrolled USF College of Medicine students.
Public Health and Social Work (MPH/MSW)
Public Health (Occupational Health) and Nursing/Adult Nurse Practitioner (MPH/MS)
Public Health and Biochemistry/Molecular Biology (MPH/Ph.D.)
Public Health and Physical Therapy (DPT/MPH)

Concentrations available in*:
Accelerated Health Education (MPH)
Behavioral Health (MPH, MSPH, Ph.D.)
Bioinformatics (MSPH)
Biostatistics (MPH, MSPH, Ph.D.)
Community and Family Health (Ph.D.) *(Focus Areas Include: Behavioral Health, Maternal and Child Health, Health Education, Socio-health Sciences)*
Environmental and Occupational Health (Ph.D.)
Environmental Health (MPH, MSPH, Ph.D.)
Epidemiology (MPH, MSPH, Ph.D.)
Epidemiology and Biostatistics (MPH)
Executive Program for Health Professionals (MPH)
Executive Program for MBA Physicians (MPH)-(Not Active)
Global Health Informatics (MPH)
Global Health Practice (MPH)[1]
Global Communicable Disease (MPH, MSPH, Ph.D.)
Health Care Organizations and Management (MPH)
Health Policies and Programs (MPH)
Health Policy and Management (MSPH, Ph.D.)
Industrial Hygiene (MSPH, Ph.D.)
International Health Management (Ph.D.)
Maternal and Child Health (MPH, MSPH, Ph.D.)
Occupational Health (MPH[2] , MSPH[3])
Occupational Health for Health Professionals (Ph.D.)-not active
Occupational Medicine Residency (MPH, MSPH)
Public Health Administration (MPH)
Public Health Education (MPH[4], MSPH, Ph.D.)
Public Health Practice Program (MPH[5,6])
Saftey Management (MPH)
Socio-Health Sciences (MPH, MSPH, Ph.D.)
Toxicology and Risk Assessment (MPH, MSPH, Ph.D.)

Dual Concentration Offered:
Epidemiology and Biostatistics
Epidemiology and Global Health

Graduate Certificates Offered:
For the most current list go to:
http://www.outreach.usf.edu/gradcerts/

Clinical Epidemiology
Disaster Management*
Infection Control
Health Management and Leadership
Humanitarian Assistance*
Safety Management
Social Marketing
Violence and Injury: Prevention and Intervention
Interdisciplinary Women's Health
Public Health Generalist*
Public Health Policy and Programs*

*fully on-line

COLLEGE REQUIREMENTS

Attendance Policy
It is the policy of the College of Public Health that a student will not be automatically dropped if they do not attend the first class of each semester for graduate classes only. However, it is the responsibility of the student to notify the course instructor if they cannot attend the first class.

Degree Requirements: a detailed description of each degree and its requirements can be found on the website listed.

Master of Health Administration (MHA): http://publichealth.usf.edu/mha.html

[1] Master's International Peaace Corps Program available

[2] Only available to dual M.S. Adult Nursing students
[3] Only for health professionals

[4] Accelerated entry program available
[5] Requires 3 years of health-related experience
[6] Offered (1) executive program and (2) online

All MHA students are required to successfully complete a total of 54 credits plus field experience:

- Five college core courses - 15 credits: Biostatistics I, Epidemiology, Principles of Health Policy and Management; Environmental and Occupational Health, and Social and Behavioral Sciences Applied to Health
- Management and policy courses - 21 credits
- Finance, Economic and Quantitative Courses - 16 credits
- Health Plans – 3 credits
- Capstone Course - 2 (substitutes for comprehensive examination)
- Field Experience - 1 - 6 credits
- Special Projects - 3 credits

Master of Public Health (MPH):
http://publichealth.usf.edu/mph.html
All MPH students are required to successfully complete a minimum of 39 credits plus field experience:

- Five college core courses - 15 credits: Biostatistics I, Epidemiology, Principles of Health Policy and Management; Environmental and Occupational Health, and Social and Behavioral Sciences Applied to Health
- Concentration courses in specialty areas - 12 credit minimum, depending on department requirements
- Comprehensive Exam and/or capstone course
- Field Experience - 1 - 12 credits
- Special Projects - 3 credits
- Electives (variable)

Master of Science in Public Health (MSPH):
http://publichealth.usf.edu/msph.html
All MSPH students are required to successfully complete a minimum of 40 credits:

- 9 credits of college core courses including Biostatics I and Epidemiology, plus one other core courses approved by the academic advisor
- Biostatistics II
- Courses in specialty areas as designated by advisory committee - 12 credits minimum
- Research Methods as determined by advisory committee
- Comprehensive Exam/Capstone Course
- Thesis for a minimum of 6 credits
- Electives (variable)

Doctor of Philosophy (Ph.D.):
http://publichealth.usf.edu/phd.html
The Doctor of Philosophy (Ph.D.) is granted in recognition of high attainment in a specified field of knowledge. It is a research degree and is not conferred solely upon the earning of credit or the completion of courses. It is granted after the student has shown proficiency and distinctive achievement in the specific field, has demonstrated the ability to do original, independent investigation, and has presented these findings with a high degree of literacy skills in a dissertation. This degree requires a minimum of 90 credits beyond the baccalaureate degree. Doctoral programs leading to Ph.D. are offered in all five departments and the five core areas of public health. Students have an opportunity to specialize within their department.

The following is an excerpted from the COPH Catalog and is located at
http://publichealth.usf.edu/phd.html

Each department has written specific guidelines. Students and their major advisor jointly create a written plan to meet these competencies via plan of study, research experience, departmental and professional activities, and other appropriate methods.

Ph.D. Course of Study
The student's course of study will include the following:

Prerequisites:
A minimum of Biostatistics I, Epidemiology, and one other selected college core courses are required by all students who do not have a master's degree in public health. The doctoral committee or the department may require other prerequisites. These courses are not included in the minimum number of hours a student needs to complete the Ph.D. and are expected to be completed early in the course of study.

Required Coursework:
The courses and number of credit hours required are defined by the department and the doctoral committee and include coursework from another department or college. There must be minimum of 13 credits at the 7000 level. Generally, the doctoral degree requires a minimum of 90 credits beyond the bachelor's degree. Departments determine the number of credits accepted from previous master(s) degree. All doctoral students take a one credit Advanced Interdisciplinary Seminar in Public

Health (PHC 7931) during the fall semester of their first year of studies.

Tools of Research:
Departmental Guidelines will address whether they are required for doctoral students within that department (consistency within the department required). The student must complete a minimum of two of the "Tools of Research" options designated by the department, and approved by the doctoral committee before the student is eligible to take the doctoral qualifying examination.

Teaching:
All doctoral students will demonstrate or document proficiency in teaching academic courses at the university level.

Qualifying Exam:
When all required coursework is satisfactorily completed (including tools of research and prerequisites), the student must pass a written comprehensive qualifying examination covering the subject matter in the major and related fields.

Dissertation:
All students must follow the University's "Guidelines for Dissertations and Theses."

OTHER INFORMATION

Comprehensive Examination (MHA, MPH, MSPH)
The Comprehensive Examination is a requirement for all students seeking an MPH or MSPH degree in the College of Public Health. (A capstone course substitutes for the comprehensive examination for the MHA degree.)

The comprehensive examination will focus on the student's concentration and the core public health courses. Each department has detailed written guidelines which are listed on department websites. Additional information may be found at http://publichealth.usf.edu/pdf/Academic%20Policies.pdf . Some departments in the college have elected to discontinue their concentration comprehensive exams. Please consult individual departments for information.

Field Experience
The type and length of the field experience varies. All students in the MHA, MPH, and MSPH in Industrial Hygiene are reguired to complete a field experience. Each department has written guidelines and a field experience website is available to assist students in this portion of their program at http://publichealth.usf.edu/academicaffairs/fe/

Special Project
The special project is an in-depth study of a selected issue in public health. A topic will be selected according to student's needs and interests.

Thesis (MSPH)
MSPH students MUST complete a Thesis.

Graduate Assistantships
Graduate assistants may perform research, teaching functions, assist in the production of seminars and workshops, or other work related to their specific disciplines. Graduate assistants are paid a biweekly stipend and may qualify to receive in-state tuition waivers. Assistantships are awarded on a competitive basis. Students must have a GPA of 3.0 or better in their upper division coursework, must be degree-seeking and enrolled full time.

Additional information may be found at
http://publichealth.usf.edu/financial.html

All positions are posted at
http://publichealth.usf.edu/jobpostings.html

Scholarships and Aid
Sources of aid are limited to degree-seeking students only and include the following which are detailed at http://www.publichealth.usf.edu/FinAid.html: several named fellowships and scholarships, Florida Environmental Health Association Scholarship, Florida Public Health Association Scholarship, MCH Epidemiology Traineeships, among others.

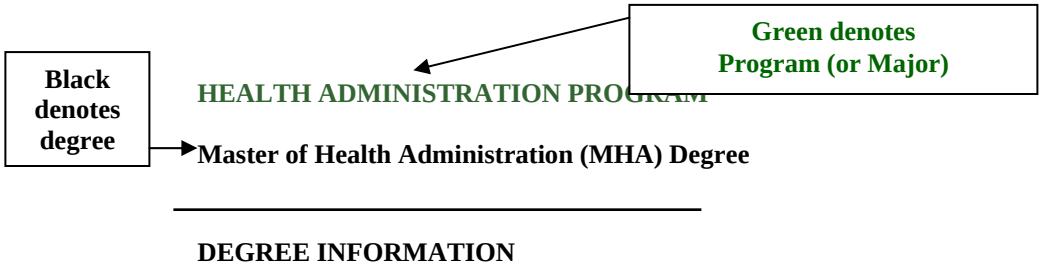
Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)
Clinical Epidemiology
Public Health Generalist*
Humanitarian Assistance*
Public Health Policy and Programs*
Disaster Management*
Health Management and Leadership
Safety Management
Infection Control
Social Marketing
Violence and Injury: Prevention and Intervention
Interdisiplinary Women's Health

*fully on-line

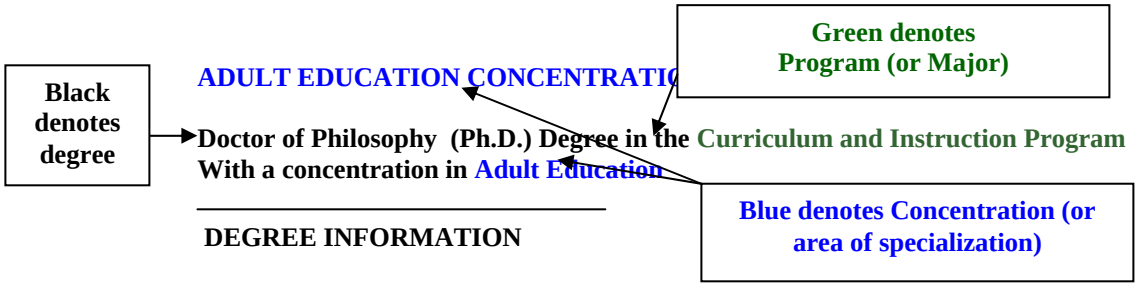
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

HEALTH ADMINISTRATION PROGRAM

Master of Health Administration (MHA) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Public Health has rolling admissions and no set deadline. A minimum of 6 weeks is necessary after a completed application is received in order for the application to be fully processed.

Minimum Total Hours: 54
Program Level: Masters
CIP Code: 51.0701
Dept Code: DEA
Program (Major/College): MHA PH

CONTACT INFORMATION

College: Public Health
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The MHA program prepares students for private and public sector leadership positions. In addition to the five core areas of public health, the curriculum helps students develop skills and knowledge in basic business disciplines with application to health services; a clinical and community perspective and professional skills. Students develop an understanding of organizational models and management principles applied to health settings; health care financial management and economics; quality and performance improvement; health policy and policy analysis; strategic planning and marketing; and health law and ethics.

Master of Health Administration graduates will be able to:

- Assess the health care system in the United States, including the role of the public health disciplines;
- Demonstrate ability to use analytic and decision-making skills in accounting, finance, health economics, quantitative methods, and policy analysis;
- Apply management, leadership and performance improvement theories and principles in solving related health services problems;
- Analyze ethical issues and implications of cultural diversity in health policy and management;
- Demonstrate ability to utilize knowledge of information systems, health law, strategic planning, and marketing to advance health services delivery and outcomes;
- Develop interpersonal and communication skills; and
- Apply critical thinking skills and knowledge to health management cases and to a health care or related organization.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health.

Major Research Areas:
Health care financial management, Health economics, Quantitative methods in health services, Health insurance, Health law, Quality management, Performance improvement, Community health assessment, Organizational theory and behavior applied to health settings, Health information management, Health policy, and Strategic planning.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Meeting these criteria per se shall not be the only basis for admission.

1) Public health course prerequisites:
   a) College requires HSC 4554 Survey of Human Diseases or comparable course for students

who do not have public health or biology courses or experience.

b) Suggested/preferred undergraduate majors: Life sciences, social sciences, business, or health professions.

c) Prerequisite undergraduate courses: Micro-economics.

2) Work experience: Preferred, but not required.

3) Minimum undergrad GPA: 3.0 upper division (some exceptions made if GRE exceeds minimum subscores).

4) Verbal GRE Score: 500 minimum

5) Quantitative GRE Score: 500 minimum

6) In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MPH, MSPH and MHA.

7) An MCAT score may be submitted in lieu of the GRE. A mean of 8 is required.

DEGREE PROGRAM REQUIREMENTS

Curriculum or Plan of Study

Management and Policy (21)

PHC 6102	Principles of Health Policy and Management	(3)
PHC 6180	Health Services Management	(3)
PHC 6420	Health Care Law, Regulation and Ethics	(3)
PHC 6148	Strategic Planning and Healthcare Marketing	(3)
PHC 6181	Organizational Behavior in Health Services	(3)
PHC 6196	Information Systems in Health Care Management	(3)
PHC 6151	Health Policy and Politics	(3)

Finance, Economics and Quantitative (16)

ACG 6025	Financial Accounting for Managers	(2)
ACG 6075	Management Accounting and Control	(2)
PHC 6430	Health Economics I	(3)
PHC 6050	Biostatistics I	(3)
PHC 6161	Health Care Financial Applications	(3)
PHC 6191	Quantitative Analysis in Health Care Management	(3)

Health Plans Elective (choose one) (3)

PHC 6435	Economics of Health Insurance	(3)
PHC 6158	Managed Care	(3)

Health and Communities (9)

PHC 6000	Epidemiology	(3)
PHC 6357	Environmental and Occupational Health	(3)
PHC 6410	Social and Behavioral Sciences Applied to Health	(3)

Culminating Experiences

PHC 6945 Supervised Field Experience

- Students with little or no professional experience: 3 hours minimum;
- Students with relevant professional experience: 1-3 hours minimum;
- Students with substantial work experience can negotiate a reduced number of hours with their advisor (e.g., 1 or 2 hours) if the student has meaningful experience (involving decision-making) in a health care or related organization

PHC 6977	Special Project	(3)
PHC 6183	Advanced Seminar in Health Care Management *(Case-based capstone course that includes the final comprehensive exam)*	(2)

Total credits: 54 plus field experience

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

PUBLIC HEALTH PROGRAM

Master of Public Health (MPH) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Public Health has rolling admissions and no set deadline. A minimum of 6 weeks is necessary after a completed application is received in order for the application to be fully processed.

Minimum Total Hours: 39
Program Level: Masters
CIP Code: 51.2201
Dept Code: DEA
Program (Major/College): MPH PH

Concentrations available in:
See list below in Program Information. Detailed descriptions are available at:
http://publichealth.usf.edu/programs_offered.html

Dual Degrees Offered:
See list below in Program Information.

CONTACT INFORMATION

College: Public Health
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Concentrations available in:
Accelerated Health Education (AHE)
Behavioral Health (BHH)
Biostatistics (BST)
Environmental Health (EVH)
Epidemiology (EPY)
Epidemiology and Biostatistics (PEB)
Epidemiology and Global Health (EGH)
Executive Program for Health Professionals (EPH)
Executive Program for MBA Physicians (EPP) - **Not Active**
Global Communicable Diseases (TCD)
Global Health Practice (GLO)
Global Health Informatics (GHI)
Health Care Organizations and Management (HCO)
Health Policies and Programs (HPP)
Maternal and Child Health (PMC)
Occupational Health (OCC)[7]
Occupational Medicine Residency (OMR)-**Not Active**
Public Health Administration
Public Health Education(PHN)[8]
Public Health Practice(PHO, PHP)[9,10]
Safety Management (SFM)
Socio-Health Sciences (SHS)
Toxicology and Risk Assessment (TXY)

Dual Degrees Offered:
Public Health and Anthropology (MPH with MA or Ph.D.) offered in the following concentrations:
- Epidemiology
- Global Health
- Environmental Health
- Global Communicable Disease
- Public Health Education
- Maternal and Child Health
- Health Care Organizations and Management
- Global Health

Public Health and Medicine (MPH / M.D.) for already enrolled USF College of Medicine Students

Public Health and Physical Therapy (DPT/MPH)
- Designated for students in the DPT program in the School of Physical Therapy-MPH availability collegewide

Public Health and Social Work (MPH / MSW)
- Behavioral Health
- Maternal and Child Health

Public Health (Occupational Health) and Nursing / Adult Nurse Practitioner (MPH / MS)

[7] Only available to dual MS Adult Nursing Students

[8] Acceletared entry program available

[9] Requires 3 years of health-related experience

[10] Offered (1) executive program and (2) online

Public Health and Biochemistry / Molecular Biology (MPH / Ph.D.) offered in the following concentrations:

- Epidemiology
- Environmental Health
- Toxicology and Risk Assessment
- Global Communicable Disease

The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Engineering, Business, Communications, Mathematics, Social Sciences and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.

The College's five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. In addition, Public Health Practice is a college-wide program.

Core content is directly related to addressing and meeting public health issues.

The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes, online course delivery, partnerships with international schools to expand options, a variety of graduate certificates, and a professional MPH for experienced health care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health and the Accreditation Board for Engineering and Technology.

Major Research Areas:
Faculty major research areas are listed at:
http://publichealth.usf.edu/facultyaffairs/facultyprofile.html

Community and Family Health
http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Reproductive and women's health, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Social determinants of health, Aging and public health.

Environmental and Occupational Health
http://publichealth.usf.edu/eoh/
Environmental and occupational toxicology and health risk assessment, Ergonomics and occupational heat stress, Occupational and environmental lung disease, inflammation and asthma, Environmental pollution assessment and modeling, bio-monitoring and management.

Epidemiology and Biostatistics
http://publichealth.usf.edu/epb/
Epidemiology of dementia and Alzheimer's disease, Aging and occupational epidemiology, Cardiovascular disease epidemiology, Social epidemiology and public health geography, Cross-cultural studies, Cancer epidemiology, Perinatal epidemiology, Sleep disorders, Injury epidemiology, Osteoporosis and falls in aging population, Infectious disease epidemiology, Epidemiology of HIV/AIDS, Prevention science and prevention methodology, including design and analysis of preventive field trials, Prevention of conduct disorder and aggression, depression, and suicide and drug use/abuse, Analysis of behavior observation data, Multi-level and mixture modeling, Environmental statistics, Health outcome evaluation and medical surveillance, Detection of bioterrorism, Small area estimation, Missing data methods, Growth curve modeling, Risk assessment, and Bayesian inference.

Global Health
http://publichealth.usf.edu/gh/
Surveillance of intestinal parasitic infections; Realtime syndromic surveillance of bioterrorist event; Biosafety of bloodborne pathogens; Serology of arboviruses; pathophysiology of arboviral infections; Health promotion against violence; Health promotion and education in HIV/AIDS; Surveillance of waterborne infections; Development of solar latrines for helminth eradication; Ecodynamics and environmental impact on health.

Health Policy and Management
http://publichealth.usf.edu/hpm/
Health care financial management, Health economics, Quantitative methods in health services, Health insurance, Health law, Quality management, Performance improvement, Community health assessment, Organizational theory and behavior applied to health settings, Health information management, Health policy, and Strategic planning.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

All Applicants must take the Graduate Record Exam (except as noted below) or an equivalent taken within five years preceding application unless noted as exceptions and must meet the following criteria:

1. shall have earned an undergraduate degree from an accredited institution;

2. shall have earned a "B" average (3.0 on a 4 point scale) or better in all work attempted

while registered as an upper division student working toward a baccalaureate degree; OR

3. shall have a minimum Verbal Graduate Record Exam (GRE) General test score of 450 and a minimum Quantitative Graduate Record Exam (GRE) test score of 550;

4. In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MPH, MSPH and MHA.

5. An MCAT score may be submitted in lieu of the GRE. A mean of 8 is required.

Meeting of these criteria per se shall not be the only basis for admission.

Note: Some Department concentration areas require higher GRE subscores.

DEGREE PROGRAM REQUIREMENTS

Master of Public Health (MPH):
http://publichealth.usf.edu/mph.html
All MPH students are required to successfully complete a minimum of 39 credits plus field experience:

- Five college core courses - 15 credits: Biostatistics I, Epidemiology, Principles of Health Policy and Management; Environmental and Occupational Health, and Social and Behavioral Sciences Applied to Health
- Concentration courses in specialty areas - 12 credit minimum, depending on department requirements
- Comprehensive Exam and/or capstone course
- Field Experience - 1 - 12 credits
- Special Projects - 3 credits
- Electives (variable)

For information on program requirements, refer to the college website: www.publichealth.usf.edu

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)

PUBLIC HEALTH PROGRAM

Master of Science in Public Health (MSPH) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Public Health has rolling admissions and no set deadline. A minimum of 6 weeks is necessary after a completed application is received in order for the application to be fully processed.

Minimum Total Hours: 39
Program Level: Masters
CIP Code: 51.2299
Dept Code: DEA
Program (Major/College): MSP PH

Concentrations available in:
See list below in Program Information. Detailed descriptions are available at:
http://publichealth.usf.edu/programs_offered.html

Dual Degrees Offered:
See list below in Program Information.

CONTACT INFORMATION

College: Public Health
Department:

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Concentrations available in:

Behavioral Health (PBH)
Bioinformatics (PBF)
Biostatistics (PBC)
Environmental Health (PEH)
Epidemiology (PEY)
Global Communicable Disease (PGD)
Industrial Hygiene (PIH)
Maternal and Child Health (PMH)
Occupational Health for Health Professionals (POH)[11]
Occupational Medicine Residency (POM)
Public Health Education (PPD)
Socio-Health Sciences (PSH)
Toxicology and Risk Assessment (PTX)

Program Information
The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Engineering, Business, Communications, Mathematics, Social Sciences and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.

The College's five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. Public Health Practice is a college-wide program.

Core content is directly related to addressing and meeting public health issues.

The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes, online course delivery, partnerships with international schools to expand options, a variety of graduate certificate programs, and a professional MPH for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health and the Accreditation Board for Engineering and Technology.

Major Research Areas:
Faculty major research areas are listed at:
http://publichealth.usf.edu/facultyaffairs/facultyprofile.html

[11] Only for health professionals

Community & Family Health
http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Reproductive and women's health, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Social determinants of health, Aging and public health.

Environmental & Occupational Health
http://publichealth.usf.edu/eoh/
Environmental and occupational toxicology and health risk assessment, Ergonomics and occupational heat stress, Occupational and environmental lung disease, inflammation and asthma, Environmental pollution assessment and modeling, bio-monitoring and management.

Epidemiology& Biostatistics
http://publichealth.usf.edu/epb/
Epidemiology of dementia and Alzheimer's disease, Aging and occupational epidemiology, Cardiovascular disease epidemiology, Social epidemiology and public health geography, Cross-cultural studies, Cancer epidemiology, Perinatal epidemiology, Sleep disorders, Injury epidemiology, Osteoporosis and falls in aging population, Infectious disease epidemiology, Epidemiology of HIV/AIDS, Prevention Science and prevention methodology, including design and analysis of preventive field trials, Prevention of conduct disorder and aggression, depression, and suicide and drug use/abuse, Analysis of behavior observation data, Multi-level and mixture modeling, Environmental statistics, Health outcome evaluation and medical surveillance, Detection of bioterrorism, Small area estimation, Missing data methods, Growth curve modeling, Risk assessment, and Bayesian inference.

Global Health
Surveillance of intestinal parasitic infections; Realtime syndromic surveillance of bioterrorist event; Biosafety of bloodborne pathogens; Serology of arboviruses; pathophysiology of arboviral infections; Health promotion against violence; Health promotion and education in HIV/AIDS; Surveillance of waterborne infections; Development of solar latrines for helminth eradication; Ecodynamics and environmental impact on health.

Health Policy and Management
http://publichealth.usf.edu/hpm/
Health care financial management, Health economics, Quantitative methods in health services, Health insurance, Health law, Quality management, Performance improvement, Community health assessment, Organizational theory and behavior applied to health settings, Health information management, Health policy, and Strategic planning.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
All Applicants must take the Graduate Record Exam (except as noted below) or an equivalent taken within five years preceding application unless noted as exceptions and must meet the following criteria:

1. shall have earned an undergraduate degree from an accredited institution;shall have earned a "B" average (3.0 on a 4 point scale) or better in all work attempted while registered as an upper division student working toward a baccalaureate degree; AND
2. shall have a minimum Verbal Graduate Record Exam (GRE) test score of 450 and a minimum Quantitative Graduate Record Exam (GRE) test score of 550;
   In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MPH, MSPH and MHA.
3. An MCAT score may be submitted in lieu of the GRE. A mean of 8 is required.

Meeting of these criteria per se shall not be the only basis for admission.

Note: Some Department concentration require higher GRE subscores.

DEGREE PROGRAM REQUIREMENTS
For information on program requirements, refer to the college website: www.publichealth.usf.edu

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)

PUBLIC HEALTH PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: December 15 annually

Minimum Total Hours: 90
Program Level: Doctoral
CIP Code: 51.2201
Dept Code: DEA
Program (Major/College): PPH PH

Concentrations available in:
See list below in Program Information. Detailed descriptions are available at:
http://publichealth.usf.edu/programs_offered.html

CONTACT INFORMATION

College: Public Health

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

Concentrations available in:
Behavioral Health (BHH)
Biostatistics (BST)
Community and Family Health *(Focus Areas Include: Behavioral Health, Maternal and Child Health, Health Education, Socio-health Sciences)(CFH)*
Environmental and Occupational Health (EOH)
Epidemiology (EPY)
Epidemiology and Biostatistics (EPB)
Global Communicable Disease (TCD)
Health Policy and Management (HPM)
Industrial Hygiene (IHY)
International Health Management (IHM) **Not Active**
Maternal and Child Health (PMC)
Occupational Health for Health Professionals (OHP)-**Not Active**
Public Health Education (HED)
Socio-Health Sciences (SHS)
Toxicology and Risk Assessment (TXY)

Program Information
The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Engineering, Business, Communications, Mathematics, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.

The College's five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. Core content is directly related to addressing and meeting public health issues.

The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes, online course delivery, partnerships with international schools to expand options, a variety of graduate certificate programs, and a professional MPH for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health.

Major Research Areas:
Faculty major research areas are listed at: http://publichealth.usf.edu/facultyaffairs/facultyprofile.html

Community and Family Health
http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Reproductive and women's health, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Social determinants of health, Aging and public health.

Environmental and Occupational Health
http://publichealth.usf.edu/eoh/
Environmental and occupational toxicology and health risk assessment, Ergonomics and occupational heat stress, Occupational and environmental lung disease, inflammation and asthma, Environmental pollution assessment and modeling, bio-monitoring and management.

Epidemiology and Biostatistics –
http://publichealth.usf.edu/epb/
Epidemiology of dementia and Alzheimer's disease, Aging and occupational epidemiology, Cardiovascular disease epidemiology, Social epidemiology and public health geography, Cross-cultural studies, Cancer epidemiology, Perinatal epidemiology, Sleep disorders, Injury epidemiology, Osteoporosis and falls in aging population, Infectious disease epidemiology, Epidemiology of HIV/AIDS, Prevention science and prevention methodology, including design and analysis of preventive field trials, Prevention of conduct disorder and aggression, depression, and suicide and drug use/abuse, Analysis of behavior observation data, Multi-level and mixture modeling, Environmental statistics, Health outcome evaluation and medical surveillance, Detection of Bioterrorism, Small area estimation, Missing data methods, Growth curve modeling, Risk assessment, and Bayesian inference.

Global Health
Surveillance of intestinal parasitic infections; Realtime syndromic surveillance of bioterrorist event; Biosafety of bloodborne pathogens; Serology of arboviruses; pathophysiology of arboviral infections; Health promotion against violence; Health promotion and education in HIV/AIDS; Surveillance of waterborne infections; Development of solar latrines for helminth eradication; Ecodynamics and environmental impact on health.

Health Policy and Management
http://publichealth.usf.edu/hpm/
Health care financial management, Health economics, Quantitative methods in health services, Health insurance, Health law, Quality management, Performance improvement, Community health assessment, Organizational theory and behavior applied to health settings, Health information management, Health policy, and Strategic planning.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Applicants to the doctoral program in Public Health must meet the following minimum criteria in order to be considered for admission. However, the meeting of these criteria per se, shall not be the only basis for admission.

1. A minimum Verbal Graduate Record Examination (GRE) test score of 480 and a minimum Quanitative Graduate Record Examination (GRE) score of 620 taken within 5 years preceding the application and a grade point average of 3.0 are needed to be considered.
2. A score of 600 or higher on the GMAT for applicants to only the Health Policy and Management Department will be considered.
3. Each applicant must submit evidence of written/analytical skills to the College of Public Health which will take two-forms:
    a. A graduate level term paper, thesis, or research paper of which the student is the sole author, publication on which the student is the first author; and
    b. A detailed personal statement of less than five pages that describes why the applicant wishes to obtain a Ph.D. degree in Public Health.
4. Applicants seeking consideration to the doctoral program must possess the MPH, M.S.P.H., or equivalent. Those who hold other graduate degrees will be considered, but as a prerequisite, they must complete the Epidemiology and Biostatistics core courses, one additional core course, and other courses as required and approved by their advisory committee.
5. Each applicant must submit at least two formal Letters of Recommendation. The Department of Community and Family Health requires three Letters of Recommendation.
6. In order to be considered for admission to the Ph.D. Program in Public Health, applicants must be fully prepared to register as full-time students for at least one full academic year (consecutive Fall and Spring semesters).

DEGREE PROGRAM REQUIREMENTS

For information on program requirements, refer to the college website: www.publichealth.usf.edu

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)

Section 24

College of Visual and Performing Arts

University of South Florida
College of Visual and Performing Arts
4202 E. Fowler Ave FAH110
Tampa, FL 33620

Web address: http://www.arts.usf.edu/
Email: n/a
Phone: 813-974-2301
Fax: 813-974-2091

College Dean: Ron Jones
Associate Dean: Barton Lee
Graduate Coordinator: Barton Lee

Accreditation:
The Commission on Colleges of the Southern Association of Colleges.

Mission Statement:
The College of Visual and Performing Arts is a distinguished center for learning and research in the arts, preparing tomorrow's artists, scholars and leaders in the arts through the creation and study of new forms of artistic expression, analysis and pedagogy. The College offers contemporary perspectives in the arts within the context of a dynamic, urban research university setting characterized by its artistic and cultural diversity. It plays a critical role in the cultural vitality of the Tampa Bay region and engages with local, national and international communities in arts initiatives.

In recognition of its academic and artistic achievements, the College has been given the program-of-emphasis status by the State University System. The College offers graduate degree programs in art, art history, music, and music education, as well as graduate certificates and advanced graduate certificates.

Major Research Areas:
Contact College for information.

Types of Degrees Offered:
Master of Arts (M.A.), Master of Fine Arts (M.F.A.), Master of Music (M.M.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Arts (M.A.)
Art History
Music Education

Master of Fine Arts (M.F.A.)
Art
Dramatic Writing (Theatre) – Not Active

Master of Music (M.M.)
Music

Doctor of Philosophy (Ph.D.)
Music

Concentrations:
Chamber Music
Composition
Conducting (Choral and Instrumental)
Jazz Composition
Jazz Performance
Music Education
Performance
Piano Pedagogy
Theory

Graduate Certificates Offered: See Graduate Certificates

COLLEGE REQUIREMENTS

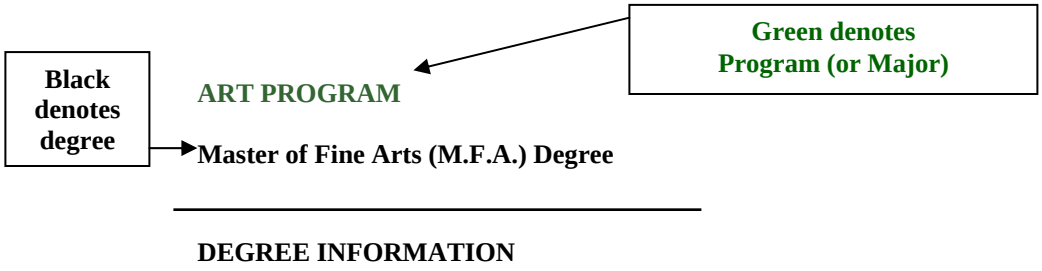
College Activities and Events

The College of Visual and Performing Arts arranges a full schedule of concerts, plays, lectures, exhibitions, and workshops featuring students, faculty, and visiting artists/scholars. Events are open to the general public and are presented both during the day and in the evening. Special ticket privileges are available to USF students. For more information, contact the CVPA Events Office. Refer to the College website for more information.

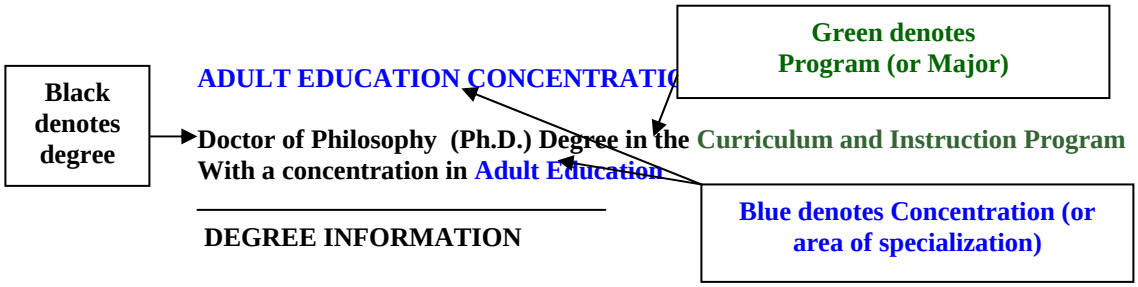
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

ART PROGRAM

Master of Fine Arts (M.F.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admission only

Minimum Total Hours: 60
Program Level: Masters
CIP Code: 50.0702
Dept Code: ART
Program (Major/College): MFA FA

CONTACT INFORMATION

College: Visual and Performing Arts
Department: School of Art and Art History

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The nationally ranked MFA Program in Studio Art has been carefully designed as a course of study that will maximize the student's potential for in depth investigation of his or her chosen artistic ideas, themes and /or media. Students are encouraged to acquire technical and conceptual skills in more than one medium or studio discipline and to work toward developing techniques that best communicate the content of their artistic pursuits.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; National Association of Schools of Art and Design.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1) Same as general university requirement:
2) Bachelor's degree
3) Three Letters of Recommendation
4) An Artist's Statement (Not longer than one 8 1/2 x 11" page)
5) Slide List on one 8 1/2 x 11" page
6) Portfolio (SASE with adequate postage if you want your portfolio returned.) Applicants portfolio should include:
   a) 2-D and 3-D artwork: A minimum of twenty 35mm slides in an 8 1/2 x 11" slide page. The first 20 slides are placed in slide trays for the final viewing committee. Slides should be sequenced to best show the development and relationship of ideas. Each slide should be numbered and labeled with artist's name, title of work, date, dimensions, materials and an arrow-indicating top of slide. An 8 1/2 x 11" slide list should be included with the same information. A sentence or two providing additional information is acceptable.

   b) Film, video, kinetic sculpture, installation and/or performance artwork:: NTSC VHS videocassette recorded at the highest quality possible in SP mode. The Admissions Panel will review the first 10 minutes of each tape. If the work from more than longer pieces is submitted, short segments from each piece should be excerpted and compiled on the first 10 minutes of the tape. The longer work in its entirety can follow these short excerpts on the same tape. An 8 1/2 x 11" listing of the works on tape, running times and any additional information that will assist in understanding the submitted works should be included.

   c) CD-ROM is not recommended for any work that can be documented in either slides or video. Only work created as digital media should be submitted on a CD. Anything else submitted on CD will not necessarily be reviewed. Work originating and intended to be viewed as digital media should be submitted on a MAC formatted CD, ideally as a self-contained program / document such as Director "Projector" file. Also acceptable is a "Web Archive" document from Internet Explorer. An accompanying 8 1/2 x 11" sheet of paper with a listing of the works submitted and any additional information is acceptable. Only MAC formatted CD's as stipulated above will be reviewed. Submitting only URLs as documentation of work is not acceptable.

DEGREE PROGRAM REQUIREMENTS

The M.F.A. degree requires a minimum of 60 hours. Specific program requirements include the following:

ARH 6798	Contemporary Thought (20^{th} Century Art History or its equivalent is a prerequisite to ARH 6798 Contemporary Thought.)	4
ART 6890	Graduate SeminarI (first semester)	3
ART 6891	Graduate Seminar II (second semester)	3
ART 6999	Professional Practices	3
ARH 6798	Seminar in Art History	8
ARH 6897	Critical Writing Seminar	3
ART 6956	M.F.A. Research Project	2

ART 5000 and 6000 Studio and Discretionary Electives - 35 credits (3 hours of electives must be taken from a program other than the School of Art and Art History – 4000 level coursework may be used to satisfy this requirement)

ART 6937 Graduate Instructor Methods 2
(This course is an elective option for students who have not worked as a Teaching Assistant.

M.F.A. total course requirements 60 credits
20^{th} Century Art History is a prerequisite to admission to the graduate program. It may be taken during the first year of graduate school but will not count as part of the 60 credit requirement.

*All M.F.A. students must take at least one course in non-western art or thought. This course can be taken as an art history course or through another department offering such an emphasis. Course work taken as undergraduate studies in non-western art may substitute but only at the discretion of the Art Faculty.

The rest of the program is discretionary and can be planned with the advice of the Graduate Art Advisor in its initial stages. After faculty acceptance of the student's proposed final MFA project, a Supervisory Committee will be selected and serve in an advisory capacity with the student for planning the rest of their program.

Transfer Credits. Requests for use of transfer credits or credits earned as a non-degree seeking student should be made when the student applies to the graduate program. The faculty will decide at the time of admission whether or not such credits will be used toward the MFA degree. Transfer credit is limited to 8 hours.

S-U GRADES

A Student may not take any course work for a grade of "S/U" until they have elected a supervisory committee, usually by the fourth semester. All course work taken during the first three semesters must be taken in course work assigning letter grades that designate quality points. Appropriate contract numbers would include graduate level studios such as Sculpture or Painting, and ART 5910 for an area in which a graduate student did not have prior skill, or ART 6940 for studies in an area where prior skill exists but the student requires variable credit or the research does not conform to clear categorization by discipline. ART 6907 Independent Study, and ART 6911 Directed Research offer only the S/U grading option and are not to be used until after the student has elected a supervisory committee.

FACULTY EVALUATIONS AT THE END OF 1ST, 2ND and 3rd SEMESTER

At the end of the first, second and third semester, students will receive a written evaluation from a faculty member with whom they are registered in a directed study contract. Students will receive this evaluation from the directed study faculty member no later than 1 week following critiques and reviews. This will indicate whether or not the student is doing satisfactory work, and will give a brief appraisal of the student's strengths and suggestions for improvement. These evaluations are based on faculty consensus, and are not necessarily in accord with grades from individual instructors. Students will receive a S/U grade after their first year in the program and after their 3rd semester in the second year.

A student receiving two "unsatisfactory" grades after the first year and third semester evaluations will be dropped from the program. To continue, the student would need to reapply.

Graduate students are requested to delay registration for courses for future semesters until after they receive their evaluation. This will enable students to consider any special faculty directives concerning individual needs and courses of study. It will be the students responsibility to follow through with directives given by the faculty.

1ST YEAR STUDENT FACULTY CRITIQUES

Students are required to present their work in a faculty critique at the end of the fall and spring semesters of their 1st year. Faculty critique participation will be assigned by the MFA Coordinator (one directed study faculty and the rest non-directed study, 4 total); voluntary non-participatory attendance by faculty is allowed; directed study faculty will discuss critique criteria with students before the critique; directed study faculty will discuss critique results with students in a timely manner after the critiques.

2nd YEAR STUDENT REVIEW BY FACULTY COMMITTEE

In their third semester, students will receive a formal review by a 3 person faculty committee (including 1 directed study faculty). The review committee will be appointed by the M.F.A. Coordinator in consultation with the faculty. The second year review will help the student assess his/her progress and begin to articulate the terms of the final project proposal. Directed study faculty will write the evaluation and meet with the student after the review in a timely manner.

M.F.A. RESEARCH PROJECT PROPOSALS

During the fourth semester of a student's program, (s)he will give a 20 minute (maximum) presentation of a proposal for a M.F.A. Research Project. This will be followed by 10 minutes of questions from the faculty. The proposal must include a one page paper that is distributed to the faculty no less than 3 days before the proposal. The student must present a body of work supporting the student's proposed direction. The proposal should be clear, articulate and grounded in past work. It is understood that the proposal is provisional and that changes will occur in the development of the ideas and work. Students are required to meet with their directed study faculty to discuss project proposal preparation. Students are discouraged from soliciting non-directed study faculty to discuss their proposals.

Project proposal presentations will occur during the 11th or 12th week of the spring term and will be scheduled by the M.F.A. Coordinator. All faculty are required to attend. The student's presentation may be in slide or digital format and will be delivered in a formal lecture setting. The faculty will discuss each student after the presentations have concluded and will decide by a simple majority vote whether or not the proposal is satisfactory or unsatisfactory. The student’s directed study faculty member will notify the student of the results shortly after the faculty vote. Faculty comments will be submitted to the student in a written report prepared by the directed study faculty member. If a student's proposal is accepted, (s)he will select a graduate supervisory committee to oversee the realization of the research project.

If a student's project proposal is not accepted during the fourth semester of his/her program, another proposal can be presented before the beginning of the following term. A faculty ad hoc advisory committee may be formed in the event the student receives an unsatisfactory vote. This committee will meet with the student to better prepare the student for the re-proposal. The ad hoc committee is not guaranteed and will be formed only if faculty members volunteer to participate on this committee. Students receiving 2 unsatisfactory votes after the Project Proposal and Re-proposal will be dismissed from the program.

GRADUATE SUPERVISORY COMMITTEES

The Graduate Supervisory Committee consists of a chairperson and two members from the School of Art and Art History Faculty. Faculty Supervisory Committees MUST be formed by the last Friday of classes for the semester during which the M.F.A. Project Proposal is approved by the faculty. Students usually ask three studio art faculty members to be on their committee, selecting one as chair; faculty members accept at their discretion. All studio faculty are limited to 3 supervisory committees and can serve as chair on no more than 2 committees. Students may have Art History faculty members as members of their committee. Students may also have faculty members from other departments/colleges on their committee but as fourth members only.

The role of the Committee Chair is as follows: logistical and procedural organization, carry ART 6956 Research Project credits with the student, scheduling the exhibition, monitor student activity including maintaining active studio usage, submit an exhibition approval form.

Graduate Student Supervisory Committee Appointment (GSSCA) forms must be downloaded. The student will first secure the committee faculty signatures and then submit the GSSCA to the M.F.A. Coordinator. The M.F.A. Coordinator will sign the form and send it to the Associate Dean of the College for signature. Once all the signatures are secured, the GSSCA will be sent to the M.F.A. Coordinator and kept as part of the student's file. The M.F.A. Students not complying with the above will have a "hold" placed on their records and not be able to register for classes in the subsequent semester or schedule their exhibitions. See Addendum VII to download the Graduate Student Supervisory Committee Appointment Form.

Any conflicts between the student and their committee that cannot be resolved by mutual agreement between the committee and the student should be then taken to the M.F.A. Coordinator for review and recommendations.

CRITICAL WRITING SEMINAR

In the Fall of the third year, M.F.A. candidates are required to take ART 6897 Critical Writing Seminar for three credits. The intent is to ground the student in critical/analytical methodology, to identify the student's place within the broader critical discourse and to prepare the student for a cogent, articulate written documentation of his or her M.F.A. exhibition.

M.F.A. RESEARCH PROJECT EXHIBITION/ORALS/WRITTEN DOCUMENT

The exhibition, written document and the orals conclude the student's graduate program and take place after all course work is completed. The exhibition is usually during the term the student plans to graduate, typically

the second semester of the third year. M.F.A. Research Project exhibitions cannot be scheduled for the summer term.

•Exhibition
M.F.A. exhibitions are scheduled after the supervisory committee chair signs the exhibition approval form. Signed exhibition approval forms are to be submitted to the M.F.A. Coordinator no later than the 11th week of the semester preceding the student's exhibition.

•Orals
Orals are required of all students. These are held during the exhibition period, normally on Friday afternoons. It is the student's responsibility to select three questioners for his/her orals. These are normally drawn from the faculty. Any non-art faculty questioner must have the approval of the student's committee. Faculty who have agreed to serve as questioners for the orals should receive a copy of the paper two weeks (14 days) before the scheduled orals. Orals are open to the public. Any deviation from this policy must be approved by the student's Graduate Supervisory Committee.

•Research Project Paper
The School requires a written non-thesis research project paper in the belief that such a document helps the student organize and refine his or her thinking about the work (s)he is producing, and facilitates the process of forming and articulating ideas about art in general. The paper is also meant to provide others with access to the ideas which generate the artwork. Research Project Paper templates will be used by all students as a basic guideline for the structure of the paper. An M.F.A. candidate may choose to complete a formal thesis paper rather than the non-thesis research project paper. Any student wishing to do so must notify his/her committee of the intent upon formation of the committee, and will be responsible for adhering to all applicable deadlines and standards established by the USF Graduate Studies Program.

•Completion of the M.F.A. Research Project
Immediately after the orals, the student's Graduate Supervisory Committee meets with the questioners to make a final recommendation on acceptance of the paper, the work and the oral presentation. If these are orally approved, the student is informed of acceptance. If the committee feels it cannot approve some part of the student's presentation, it will confer with the student at once and notify the student what clarifications and alterations need to be made to the exhibition or research project paper. Once the committee accepts the research project, the student must submit documentation of the exhibition and paper to the M.F.A. Coordinator for format check. The M.F.A. Research Project documentation includes the ETD (electronic thesis/dissertation) and the LRC Archive (exhibition documentation). Once the documentation is format checked by the M.F.A. Coordinator, the student must secure a Certificate of Approval signed by the supervisory committee.

Those students who do not submit the ETD, LRC exhibition documentation and Certificate of Approval will be put on an administrative hold. This hold will prevent student transcripts from being issued.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

ART HISTORY PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: January 15
Fall admission only.

Minimum Total Hours: 38
Program Level: Masters
CIP Code: 50.0703
Dept Code: ART
Program (Major/College): ATH FA

CONTACT INFORMATION

College: Visual and Performing Arts
Department: School of Art and Art History

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The School of Art and Art History offers high quality M.A. studies in art history from the Middle Ages to the present. The focus of all art history courses and programs is on the intellectual and cultural history of art. Course work is supplemented by practical internships in galleries and museums as well as study-abroad programs. While a reading knowledge of French or German is preferred, other languages may be substituted with advisor's approval if more appropriate to the student's interests.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; National Association of Schools of Art and Design.

Major Research Areas:
M.A. Art History students are guided by the art history faculty in selecting their area of research after completing a year of graduate study. Because the focus of the Art History M.A. Program is on the cultural and intellectual history of art, graduate thesis work is expected to address an area of art from a contemporary perspective that is complimentary. This program features an endowed chair in modern and contemporary art history.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Same as general university requirement.
2. Departmental Requirements plus a research paper dealing directly with Art History or a related discipline (literature, political history, psychology, philosophy or classical studies).
3. Three letters of recommendation from people who can professionally assess the applicant's ability to do scholarly and academic work.
4. A short essay of one to two pages explaining the applicant's research interests and goals for graduate study in art history.
5. A personal interview by the Art History faculty may be requested.

Undergraduate Deficiencies in Art History

1. Students pursuing graduate studies in Art History, who do not have an undergraduate degree in Art History will be expected to complete four undergraduate Art History survey courses plus two courses in critical studies.
2. Exceptions can be granted only with consent of the Art History faculty.

Language Requirements
Art History Language Requirements:
Reading knowledge of French or German (Italian in special cases) must be acquired before the end of the second semester of enrollment in the program. Please see the Academic Advisor for exceptions to this rule.

The student may take appropriate courses in the Division of Language or Classics Program. Whenever the courses are available, the student should be encouraged to take one of the special one semester foreign language courses designed for graduate students.

When these courses are not available, the student may take two semesters of a beginning foreign language course. These courses may not be taken pass/fail or audit. In order to fulfill the foreign language requirement, the student must receive a letter grade of "C or better in both courses. Courses taken to fulfill the foreign language

requirement will not count toward hours necessary for graduation and the grades in these courses will not be computed in the student's graduate GPA.

Students may elect to take the GSFLT (Graduate School Foreign Language Test). The student must achieve a score of 450 or above on the test in order to fulfill the foreign language requirement.

Students may take a proficiency exam in which they translate, from a foreign language into English, materials relevant to their particular disciplines. The form of these proficiency exams should be devised by the appropriate language professors from either of these two units.

DEGREE PROGRAM REQUIREMENTS

Course work consists of 18 hours of specially designated courses, 18 hours of electives, and 2 hours of thesis for a total of 38 hours.

1. Students must take the following courses
   a) ARH 5795 Methods of Art History (must be taken by the student's second year in the program)

   b) three Critical Studies Seminars (cannot be substituted with Directed Studies courses)

   c) Thesis Writing for Art History Majors – usually taken in the second year of the student's program.

   d) Art History Thesis

2. ARH 5797 Museum internship, arranged through the Art History faculty, is optional and can be taken any term after the first semester. Museum experience is encouraged but course credit for museum internship is limited to those students seeking a Graduate Certificate in Museum Studies.

Thesis - By the end of the student's second semester and completion of 18 hours, the student will select (in consultation with the art history faculty) a Faculty Graduate Thesis Committee. Students will be advanced to candidacy by the art history faculty based in part upon satisfactory completion of a thesis proposal. The Graduate Thesis Committee must approve the written thesis and conduct the oral defense of the thesis in satisfaction of degree requirements.

Transfer of Credit - There is no automatic transfer of special student credit or graduate credit earned at other institutions or from other graduate program in the university towards M.A. degree requirements. The School of Art and Art History has designated a six hour limit on all credit taken as special student status. Any transfer of credit or special student hours to be used toward M.A. degree requirements are only granted after a faculty review at the time the student has been accepted into the M.A. program.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm

DRAMATIC WRITING PROGRAM

Master of Fine Arts (M.F.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines: Closed for new admissions

Minimum Total Hours: n/a
Program Level: Masters
CIP Code: 50.0504
Dept Code: TAR
Program (Major/College): DRW FA

CONTACT INFORMATION

College: Visual and Performing Arts
Department: School of Theatre and Dance

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

Currently, students are not being admitted into this program.

MUSIC PROGRAM

Master of Music (M.M.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students:

Fall:	March 15
Spring:	October 15
Summer:	March 1

International Students:

Fall:	March 15
Spring:	October 1
Summer:	February 1

Minimum Total Hours: 30-34
Program Level: Masters
CIP Code: 50.0903
Dept Code: MUS
Program (Major/College): MUS FA

Concentrations available in:
Chamber Music (MCL) ***(Piano and Strings)***
Composition (MMC)
Conducting (MMD) *(Choral or Instrumental)*
Jazz Composition (MJC)
Jazz Performance (MJP)
Music Education (see Ph.D. Program)
Performance (MMP)
Piano Pedagogy (MMP)
Theory (MMT)

CONTACT INFORMATION

College: Visual and Performing Arts
Department: School of Music

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Music Faculty, Alumni, and Students
Perhaps the most compelling reason to study music at the University of South Florida is the opportunity to work with our superb music faculty. These gifted, dedicated artists/scholars are among the preeminent leaders in their fields and have been carefully chosen for their professional training, excellence in musical performance and research, and pedagogical expertise. They are featured on many professional recordings and appear in prestigious concert venues around the world. Their compositions are premiered globally. Their scholarship is published in the leading research journals, books, and monographs in their disciplines. The School of Music also invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public.

Many USF music alumni are currently performers in a variety of concert settings and successful teachers in public schools, colleges, and universities around the country in a variety of concert settings. The School of Music at USF offers the student the opportunity to study with distinguished faculty and to be in the company of other superior music students for an exciting and exacting period of study.

The Master of Music degree provides students with an opportunity to pursue intense, focused study in their music specialty, coupled with a vigorous, balanced curriculum in music theory, music literature, and electives. Students in this program are mentored expertly by senior faculty and exhibit mastery of their specialty at the end of the course of study by way of appropriate capstone experiences, including recitals or theses and comprehensive examinations. The provisions and balance of these experiences comport precisely with the curriculum guidelines required by the national Association of Schools of Music.

Accreditation:
Commission on Colleges of the Southern Association of College and Schools (SACS); full member, National Association of Schools of Music (NASM)

Major Research Areas:
Chamber Music, Composition, Conducting, Jazz Studies, Music Performance, Music Theory

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Successful auditions and/or interviews are required for admission into chamber music, conducting, performance, pedagogy, and theory programs. Approved portfolios are required for admission into composition (jazz or traditional). In addition, diagnostic tests in music theory and history must be taken before classes begin in the first semester. Based upon the scores, the music faculty may require remediation in one or both areas of study. Graduate review courses are offered each Fall semester. The Graduate Record Examination (GRE) is not required for the M.M. degree program.

Students who do not enroll in the semester for which they applied and were admitted must receive permission from the Director of Graduate Studies in music to enroll in courses in theh following semester(s). This procedure is to determine the availability of applied and academic courses in music.

An official undergraduate Transcript for a completed undergraduate degree in music (from an accredite program) is required with the application. The overall Grade Point Average (GPA) for upper division credit hours must be at least 3.0 and the GPA for all music courses included in the undergraduate degree must be at least 3.0 International students must include copies of graduation Certificates and/or Diplomas (in addition to official transcripts) with their applications.

International students must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (TOEFL), or they must have completed English Language Institute (ELI) Level 4 or Level 5 and have passed the ELI Exit Assessment.

Credit hours earned in Certificate Programs at USF may be applied toward a master's degree. Up to eight (8) graduate credit hours or three (3) graduate courses may be transferred from other institutions.

M.M. students may apply up to 6 credit hours of 4000-level courses, which are deemed appropriate for their degree program and which are taken at USF as part of their graduate studies. M.M. students must successfully complete a Comprehensive Examination at the end of the program of study. Details regarding this examination may be obtained from the Director of Graduate Studies in Music.

DEGREE PROGRAM REQUIREMENTS

ADMISSION

- Admission to USF Graduate Studies with acceptable transcript(s)

- Admission to School of Music through successful audition and/or interview (conducting, jazz performance, performance, pedagogy, and theory), or approved portfolio (classic and jazz composition)

- Diagnostic Music Tests taken prior to classes in first term. Students may be required to enroll in a remedial history and/or theory course as a consequence of their scores.

COMPLETION OF COURSES (required for degree program): Common Core, Major Area, Electives

APPLICATION FOR GRADUATION
(due by beginning of final semester)

FINAL PROJECT (according to major area)

- Composition(s) as required by composition faculty, or
- Recital (includes recital approval hearing one to two weeks in advance of recital), or
- Thesis (includes Oral Defense)

COMPREHENSIVE EXAMINATION
Selection of Committee, including major professor (committee chair) and two other professors from varying concentrations in music with whom they have studied. One member must be from the academic area. The student and the committee must sign a contract available from the Director of Graduate Studies in Music at the beginning of the final term.

- Written Examination

1. Collection of examination questions by chair from committee members

2. Presentation of questions to candidate with deadline of one week for completion (theory majors take a two-hour written examination.)

3. Candidate submits questions and answers to chair one week before oral examination

- Oral Examination (meeting for candidate and committee members scheduled by chair)
- Final Recommendation with signatures presented to the Program Director of Graduate Studies in Music

The course outlines below are mandatory for the respective fields of study. Secondary applied music courses may be taken in conjunction with MUS 6976, Graduate Recital, if two semesters of four-credit hour major study have already been completed.

Common Core

MUS 6793	Techniques of Research in Music And Music Education *(Normally taken in the first semester of study)*	3
MUL 6375	Twentieth Century Music Literature	3

Choose 1 of 3

MUT 6545	Analysis of 18th and 19th Century Music	3
MUT 6626	Analysis of 20th Century Music	3
MUT 6665	Jazz Styles and Analysis*	2

Music Theory majors must take MUT 6545 & 6626 (for major area) plus MUS 6793 and MUL 6375.
** Required for Jazz Composition and Jazz Performance majors*
Music Composition majors must take MUT 6626

Major Areas

Concentration	CR	Required Courses
Chamber Music (MCL)	8	MVK or MVS 6XXX - Applied Studio (for piano and string students, only) *(4 credits; taken two terms)*
MM degree	6	MUN 6XXX – Chamber Music Ensemble
Total Hours=30	2	MUS 6976 – Recital (Chamber Music, only). Must include: 1. Major standard sonata 2. Major standard work for 3 or more instruments 3. Major contemporary chamber work for 2 or more instruments
C. Core=8-9 M. Area=16 Electives=5-6		
		Scholarship Requirement for Piano: STUDIO ACCOMPANYING Scholarship Requirement for Strings: PARTICIPATION IN USF ORCHESTRA

Choral Conducting (MMD)	8	MUG 6205 - Advanced Choral Conducting *(2 credits; taken four terms; variable content)*
MM degree	3	MUG 6930 - Advanced Choral Techniques
Total Hours=34	3	MUL 6655 - Choral Literature 1500-1800
C. Core=8-9 M. Area=21 Electives=4-5	3	MUL 6656 - Choral Literature 1800-Present
	2	MUN 6XXX – Ensemble *(1 credit; taken two terms)*
	2	MUS 6976 - Recital

Instrumental Conducting (MMD)	6	MUG 6307 - Band/Wind Ensemble Conducting *(3 credits; taken two terms)*
MM degree	3	MUL 6555 - Band/Wind Ensemble Literature
Total Hours=30	2	MUN 6XXX – Ensemble *(1 credit; taken two terms)*
C. Core=8-9 M. Area=13 Electives=8-9	2	MUS 6976 - Recital

Jazz Composition (MJC)	8	MUC 6626 - Jazz Composition *(4 credits; taken two terms)*
MM degree	4	MUC 6930 - Seminar: Jazz Compositional Styles *(2 credits; taken two terms)*
Total Hours=30		
C. Core=8-9 M. Area=16 Electives=5-6	2	MUN 6XXX – Ensemble *(1 credit; taken two terms)*
	2	MUS 6976 – Recital

Jazz Performance (MJP)	8	MVJ 6XXX - Applied Jazz *(4 credits; taken two terms)*
MM degree	2	MUN 6XXX – Ensemble *(1 credit; taken two terms)*
Total Hours=30	4	MUT 6665 - Jazz Styles and Analysis *(2 credits; taken two terms)*
C. Core=8-9 M. Area=16 Electives=5-6	2	MUS 6976 – Recital

Music Composition (MMC)	8	MUC 6251 – Composition *(4 credits; taken two terms)*
MM degree	2	MUS 6971 - Thesis (Oral Defense required) or MUS 6976 - Recital
Total Hours=30		
C. Core=8-9 M. Area=10 Electives=11-12		Recital includes portfolio, presentation, and major project

Music Performance (MMP)	8	MV? 6XXX - Applied Studio *(4 credits; taken two terms)*
MM degree	2	MUN 6XXX – Ensemble *(1 credit; taken two terms)*
Total Hours=30	2	MUS 6976 - Recital
C. Core=8-9 M. Area=12 Electives=9-10	4	Piano Majors: MUL 6410 Keyboard Repertory I *(2 credits; Fall)* MUL 6411 Keyboard Repertory II *(2 credits; Spring)*

Music Theory (MMT)	3	MUT 6545 - Analysis of 18th and 19th C. Music
	2	MUT 6586 - Critical Analysis: History
MM degree	3	MUT 6626 - Analysis of 20th C. Music
Total Hours=30	3	MUT 6627 - Schenkerian Analysis
C. Core=6 M. Area=21 Electives=3	3	MUT 6751 - Teaching of Music Theory
	3	MUT 6760 - History of Music Theory (offered only as a "directed study")
	4	MUS 6971 - Thesis (Oral Defense required)

Piano Pedagogy (MPP)	4	MVK 5XXX - Applied Studio *(2 credits; taken two terms)*
	2	MUL 6410 Keyboard Repertory 1 *(2 credits; Fall)*
MM degree	2	MUL 6411 Keyboard Repertory 2 *(2 credits; Spring)*
Total Hours=30	2	MVK 6650 Graduate Piano Pedagogy 1
C. Core=8-9 M. Area=16 Electives=5-6	2	MVK 6651 Graduate Piano Pedagogy 2
	2	MUN 6XXX – Ensemble (1 credit; taken two terms)
	2	MUS 6976 - Recital

Comprehensive Examinations (written and oral) are required for all degree concentrations.

Courses are subject to change. Summer and online courses may be offered. All inquiries should be directed to the Director of Graduate Studies in Music.

The responsibility for seeing that all graduation requirements are met rests with the student.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

MUSIC PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students:

Fall:	March 15
Spring:	October 15
Summer:	March 1

International Students:

Fall:	March 15
Spring:	October 1
Summer:	February 1

Minimum Total Hours: 60
Program Level: Masters
CIP Code: 50.0901
Dept Code: MUS
Program (Major/College): DMS FA

Concentrations available in:
Music Education (MDE)

Doctoral applicants are encouraged to contact Dr. C. Victor Fung, Director of the Doctoral Music Education Program, as early as possible at cvfung@arts.usf.edu

CONTACT INFORMATION

College: Visual and Performing Arts
Department: School of Music

Contact Information: www.grad.usf.edu

FINANCIAL AID DEADLINES Fall Admissions Only

$7500 to $20,000 per year plus Tuition Waiver	**Residency Requirement** One academic year of full-time study. Successive summers may be considered.	
Graduate Assistantships	March 15	Application form: http://hayden.arts.usf.edu/graduate
Fellowships	February 1	No application. By faculty recommendation only.

PROGRAM INFORMATION

Music Faculty, Alumni, and Students
Perhaps the most compelling reason to study music at the University of South Florida is the opportunity to work with our superb music faculty. These gifted, dedicated artists/scholars are among the preeminent leaders in their fields and have been carefully chosen for their professional training, excellence in musical performance and research, and pedagogical expertise. They are featured on many professional recordings and appear in prestigious concert venues around the world. Their compositions are premiered globally. Their scholarship is published in the leading research journals, books, and monographs in their disciplines. The School of Music also invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public.

Many USF music alumni are currently performers in a variety of concert settings and successful teachers in public schools, colleges, and universities around the country in a variety of concert settings. The School of Music at USF offers the student the opportunity to study with distinguished faculty and to be in the company of other superior music students for an exciting and exciting period of study.

Accreditation:
Commission on Colleges of the Southern Association of Colleges and Schools (S.A.C.S.); National Association of Schools of Music (N.A.S.M.); National Council for Accreditation of Teacher Education (N.C.A.T.E.);

Major Research Areas:
Adolescent Voice, Alternative Methods, Community Collaboration, Contemporary Changes, Early Childhood, General Music, International Perspectives, Multicultural Issues, Philosophy, Psychology, Sociology, Teacher Behaviors, Technology

MUSIC EDUCATION CONCENTRATION IN THE Ph.D. IN MUSIC

Program Description
The Ph.D. program varies, depending on individual interests and needs. All applicants are expected to have two or more years of teaching experience in a public or private school (or its equivalent). A dissertation and dissertation defense are required. The Ph.D. degree empowers students to become scholarly producers of research in music education.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Official Application to the USF Graduate School for the Ph.D. Program in Music (code DMS) with a concentration in Music Education (code MDE) in Music (code MUS) in CVPA (code FA).

2. Master's degree from an accredited institution. Official undergraduate and graduate transcripts must be received at the same time as the application for admission. Credits to be considered for transfer to this degree program, which are reflected on other transcripts besides the degree-bearing transcripts, must also be sent for consideration by the faculty.

3. Minimum GPA of 3.0 for upper division of undergraduate degree (all credits beyond the first 60), and minimum GPA of 3.5 for master's degree.

4. The GRE General Test (after October 1, 2002) must be taken and results must be delivered to Graduate Studies in the School of Music as part of the admission application process.

5. Minimum of two years of teaching experience in elementary and/or secondary school(s), or the equivalent.

6. Successful interview with the music education faculty, either in person or by other arrangement. ***Prior to the interview***, the following must be reviewed by the music education faculty:

    a. At least three letters of recommendation from people qualified to speak on behalf of the applicant's academic and professional capabilities.
    b. Sample of the applicant's best academic writing.
    c. Curriculum vita.
    d. 15-20 minute video recording of the applicant teaching music.
    e. Personal goal statement.

International students must include copies of graduation **Certificates and Diplomas** (in addition to official transcripts) with their applications. If English is not their primary language, they must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (**TOEFL**), or they must have completed English Language Institute (**ELI**) Level 4 or Level 5 and have passed the ELI Exit Assessment.

DEGREE PROGRAM REQUIREMENTS

- **COMPLETION OF COURSES**
    a. Appointment of Doctoral Committee
    b. Comprehensive Qualifying Examination
    c. Admission to Candidacy

- **SUBMISSION OF DISSERTATION**

- **APPLICATION FOR GRADUATION**
  (due by beginning of final semester)

- **DISSERTATION DEFENSE**
    a. Final Oral Examination
    b. Final recommendation with signatures presented to Program Director of Graduate Studies in Music

COURSE REQUIREMENTS

Specialization (21 hours)
MUE 7815 Psychology of Music (3)
MUE 7835 Philosophical and Historical Issues in Music Education (3)
MUE 7939 Seminar in Music Education Research (3)

Choose 5 of 6:
MUE 7746 Measurement and Evaluation in Music (2)
MUE 7786 Qualitative Methods in Music Education (2)
MUE 7816 Music Cognition (2)
MUE 7855 International Perspectives in Music Education (2)
MUE 7937 Special Topics in Music Education (2-3)
MUE 7990 Seminar on Music in Higher Education (2)

Cognate (9 hours)
Choice of graduate courses in music from the following: Jazz Studies, Music Composition, Music Conducting, Music History, Music Literature, Music Performance, Music Theory: Education

Statistics and Measurement (12 hours)
EDF 6407 Statistical Analysis for Educational Research I (4)
EDF 7408 Statistical Analysis for Educational Research II (4)
EDF 7410 Design of Systematic Studies in Education (4)

Dissertation (18 hours)
Prerequisite: Comprehensive Qualifying Examination
MUE 7980 Dissertation (18)

Total Hours Beyond the Master's Degree: 60

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

The responsibility for seeing that all graduation requirements are met rests with the student.

MUSIC EDUCATION PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
U.S. Students:

Fall:	March 15
Spring:	October 15
Summer:	March 1

International Students:

Fall:	March 15
Spring:	October 1
Summer:	February 1

Minimum Total Hours: 32
Program Level: Masters
CIP Code: 13.1312
Dept Code: MUS
Program (Major/College): MUE FA

Also offered as:
Concentration in the Doctor of Philosophy (Ph.D.) in Music.

CONTACT INFORMATION

College: Visual and Performing Arts
Department: School of Music

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

Music Faculty, Alumni, and Students
Perhaps the most compelling reason to study music at the University of South Florida is the opportunity to work with our superb music faculty. These gifted, dedicated artists/scholars are among the preeminent leaders in their fields and have been carefully chosen for their professional training, excellence in musical performance and research, and pedagogical expertise. They are featured on many professional recordings and appear in prestigious concert venues around the world. Their compositions are premiered globally. Their scholarship is published in the leading research journals, books, and monographs in their disciplines. The School of Music also invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public.

Many USF music alumni are currently performers in a variety of concert settings and successful teachers in public schools, colleges, and universities around the country in a variety of concert settings. The School of Music at USF offers the student the opportunity to study with distinguished faculty and to be in the company of other superior music students for an exciting and exacting period of study.

Master of Arts Program Description
Graduate education in music education at the University of South Florida is focused on research. The Master of Arts degree in music education empowers students to become thoughtful *consumers of research* in music education. This program captures a balanced array of courses in music education, research techniques, music theory/history/literature, and electives in music. It concludes with a comprehensive examination. Variability of the program depends on individual interests and needs.

Many of the offerings for the Master of Arts degree in music education are offered via the internet in a distance learning format.It is possible to complete the entire degree through distance learning. Details on distance learning coursework are available at:
http://musiceducation.arts.usf.edu

Accreditation:
Commission on Colleges of the Southern Association of Colleges and Schools (S.A.C.S.); National Association of Schools of Music (N.A.S.M.). National Council for Accreditation of Teacher Education (N.C.A.T.E.)

Major Research Areas:
Adolescent Voice, Alternate Methods, Community Collaboration, Contemporary Changes, Early Childhood, General Music, International Perspectives, Multicultural Issues, Technology, Teacher Behaviors, Philosophy, Psychology, Sociology

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. An official **Transcript** for a completed undergraduate degree in music (from an accredited program) is required with the application.. The overall Grade Point Average (GPA) for upper division credit hours must be at least 3.0, and the GPA for all music, music education, and education courses included in the undergraduate degree must be at least 3.0.

2. A minimum of three (3) current **Letters of Recommendation** from people qualified to speak on behalf of the applicant's professional capabilities must accompany the application. Interviews, portfolios, and the Graduate Record Examination (GRE) may be required for admission, and **two years of school music teaching are required.** However, final approval for admission must be granted by the music education faculty.

3. **International students** must include copies of graduation **Certificates** and/or **Diplomas** (in addition to official transcripts) with their applications. If English is not their primary language, they must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (**TOEFL**), or they must have completed English Language Institute (**ELI**) Level 4 or Level 5 and have passed the ELI Exit Assessment.

Transfer Credit: Credit hours earned in Certificate programs at USF may be applied toward a master's degree. Up to 8 graduate credit hours or 3 graduate courses may be transferred from other institutions. M.A. students may apply up to 6 credit hours of 4000-level courses, which are deemed appropriate for their degree program and which are taken at USF as part of their graduate studies.

Diagnostics tests in music history/literature and theory must be taken prior to the first semester of study. Based upon the scores, the music faculty may require remediation in one or both areas of study in order to qualify the student for permission to enroll in certain courses. Graduate reviwe courses are offered each Fall semester.

It is important to enroll in the term of admission. If postponement is necessary, you should request that your application be updated for the term when you will register for classes.

DEGREE PROGRAM REQUIREMENTS

Sequence of Events and Protocols

- **ADMISSION** (see above)
- **COMPLETION OF COURSES**
- **APPLICATION FOR GRADUATION**
  (due by beginning of final semester)
- **COMPREHENSIVE EXAMINATION**
  - Selection of Committee, including major professor (chair) and two other professors with whom they have studied. The student and the committee must sign a contract available from the Director of Graduate Studies in Music at the beginning of the final term.
  - Written Examination
    - Collection of examination questions by chair from committee members
    - Presentation of questions to candidate with deadline of one week for completion
    - Candidate submits questions and answers to chair one week before oral examination
  - Oral Examination (meeting for candidate and committee members scheduled by chair)
  - Thesis submission and thesis defense (only for those who elect to write a thesis)
  - Final recommendation with signatures presented to Program Director of Graduate Studies in Music

COURSE REQUIREMENTS

Common Core:

MUS 6793 Techniques of Research in Music and Music Education (3)
MUL 6375 Twentieth Century Music Literature (3)

Choose 1 of 3:

MUT 6545 Analysis of 18th and 19th Century Music (3)
MUT 6626 Analysis of 20th Century Music (3)
MUT 6665 Jazz Styles and Analysis (2)

Required Courses

MUE 6080 Foundations & Principles of Music Education (3)
MUE 6648 Techniques & Research in Alternative Music Education Models (3)

MUS 6525 Computer Applications in Music (3)
EDF 6432 Foundations of Measurement (3)

Choose 1 of 3:
MUE 6116 Advanced Techniques and Research in K-12 General Music (3)
MUE 6336 Advanced Techniques & Research in Secondary Vocal Music (3)
MUE 6348 Advanced Techniques & Research in Instrumental Music Ed (3)

ELECTIVES (8 hours)

Other graduate music courses, which may include Directed Studies, Directed Research, and Thesis

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Total Hours beyond the Bachelor's Degree: 32

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

The responsibility for seeing that all graduation requirements are met rests with the student.

Section 25

Graduate School Administered Programs

University of South Florida
Graduate School (College of Graduate Studies)
4202 E. Fowler Ave BEH 304
Tampa, FL 33620

Web address: http://www.grad.usf.edu/
Email: n/a
Phone: 813-974-2846
Fax: 813-974-5762

College Dean: Delcie Durham

Accreditation:
The Commission on Colleges of the Southern Association of Colleges.

Mission Statement:
The Mission of the Graduate School at the University of South Florida is to stimulate, encourage and support graduate education efforts that build national distinction and are characterized by innovation and by increasing contribution to the social, cultural, economic, health and technological development needs of the region and state.

The following are degree programs offered across programs and/or colleges.

Degrees Offered:
Master of Arts (M.A.)
Master of Science (M.S)
Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Arts (M.A.)
Applied Behavior Analysis

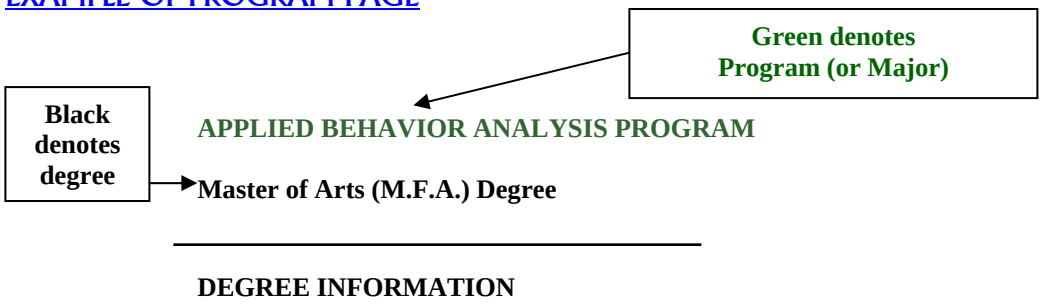
Master of Science (M.S.)
Entrepreneurship in Applied Technologies

Doctor of Philosophy (Ph.D.)
Cancer Biology

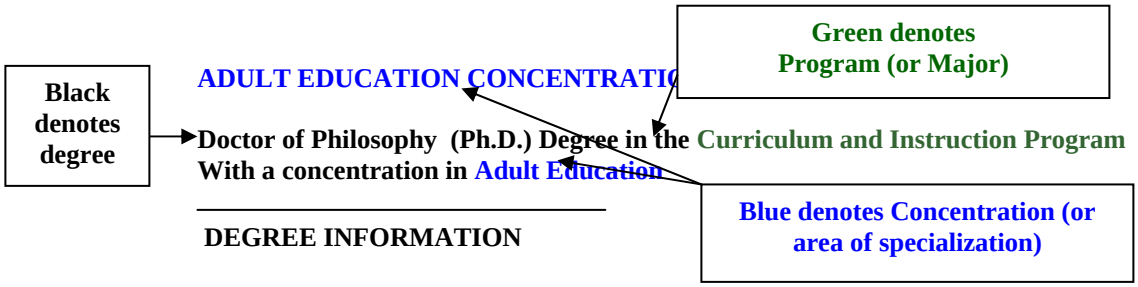
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a "program" (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or "concentrations" within a degree program.

EXAMPLE OF PROGRAM PAGE



EXAMPLE OF CONCENTRATION PAGE



The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.

APPLIED BEHAVIOR ANALYSIS PROGRAM

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: March 15

Minimum Total Hours: 42
Program Level: Masters
CIP Code: 42.9999
Dept Code: GRS
Program (Major/College): ABY GS

CONTACT INFORMATION

College: Graduate School
Department: School of Mental Health Studies FMHI

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The master's degree program in applied behavior analysis (ABA) is designed to meet growing needs in Florida and nationally for practitioners who can work effectively within systems to improve the quality of services in the fields of developmental services, education, child protective services, rehabilitation, mental health, and business and technology. ABA provides an approach for developing, implementing, and evaluating practical strategies to produce changes in socially significant behaviors of individuals in the context of community settings as well as in institutional settings. Three important features characterize the scientific basis upon which ABA is built: a) it focuses upon objectively measurable behavior of an individual or system; b) it studies environmental influences upon the targeted behaviors; and c) it places a premium upon single-subject research designs to analyze the effects of different environmental arrangements.

The 42-credit-hour master's degree in ABA is interdisciplinary and is housed in Graduate School. It provides coursework and practical supervision across three colleges (College of Arts and Sciences, College of Education, and the School of Mental Health Studies in the Louis de la Parte Florida Mental Health Institute).

This interdisciplinary program links existing courses, as well as new courses, to create a comprehensive, cohesive degree program. Students are required to show proficiency in courses that constitute a core curriculum, demonstrate content areas through supervised practicum experiences, and complete a thesis. The master's degree program was designed to prepare students to meet the standards to be Board Certified Behavior Analysts. It will assist in their preparation for employment in fields such as developmental services, education, child protective services, rehabilitation, and mental health--where there are growing demands for competent professionals with expertise in applied behavior analysis.

Philosophy
The systematic analysis and application of behavioral principles is an extensive repertoire of professional behaviors. In the USF ABA program, these skills are acquired as students move through the sequenced curriculum of coursework. Most courses require application of behavior analytic principles, with direct supervision by instructors and their staffs.

However, in the USF program, the global integration of applied behavior analysis skills, and the supervision of the students' research theses, rests in the hands of designated core faculty members (i.e., "major professors."). Major Professors serve as mentors for the students. For the program to develop an integration of instruction and accountability, students are professionally attached to core faculty members at the point of admission. Therefore, as students apprentice their major professors during the program, a meaningful major professor-student relationship is essential.

The initially arranged major professor need not remain in that capacity for the entirety of the program. Relationships and interests will evolve during passage through the academic program. In some cases, the initial core faculty member may officially turn over his/her responsibility to a different faculty member. A change in this role simply implies a more compatible union of student-faculty member interests and objectives.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

- Three letters of reference from professors and/or employers who know the applicant well
- Current resume
- One-page narrative describing the applicants interest in Applied Behavior Analysis and in the Master's Program in Applied Behavior Analysis at USF.
- GRE Scores on the general subtests

Specific Procedures

The primary assumption underlying admission to the M.A. program is that every student accepted is capable (a) of successfully completing his or her respective program and (b) of performing competently in the field as an Applied Behavior Analyst. Applicants are selected based on their potential to benefit from the program and their potential to contribute both to the Program and the field of Applied Behavior Analysis.

Within the admissions process, a culturally diverse student body is actively recruited, and applicants of academic and professional promise are not systematically excluded on the basis of race, ethnic origin, gender, age, religion, lifestyle, sexual orientation, or physical handicap. The admissions process is selective, but flexible--all pertinent data submitted for consideration will be evaluated as an entire package. The evaluation process, however, does involve both academic and interpersonal considerations. The profession of Applied Behavior Analysis requires that the practitioner possess personal characteristics as well as academic and technical competencies, and the admissions process attempts to evaluate both these areas.

Admission to the program is based on past academic work; a resume outlining pertinent work, volunteer, and extracurricular experience; letters of recommendation; and a statement of professional goals. Students may apply, after conferral or anticipated conferral of their Bachelor's degree. Applications must be submitted by March 15 to be considered for application in the following fall term.

For further Admissions Information, please visit Graduate Admissions.

After interviews, a decision about each applicant's candidacy is made by the Faculty Steering Committee based on his/her record/application and his/her:

a) Career goals and their compatibility with those of the program

b) Potential for successful completion of the program

c) Sensitivity to the needs of potential client populations

d) Interpersonal skills

e) Communication skills, both oral and written

f) Arrangement for the personal commitment of Major Professor advocacy by a Core faculty member

NOTE: If geographical constraints prohibit a personal interview, the faculty may agree to a telephone interview or a taped interview. This is at the discretion of the Core faculty and is not guaranteed. The Core faculty, of course, reserves the right to contact all references specified as appropriate by the candidate.

DEGREE PROGRAM REQUIREMENTS

Below is a sample program of study for the Behavior Analysis program. For more information on program requirements, contact the program.

EDF 6215	ABA Basic Principles of Learning
EDF 6217	Behavior Theory
EDG 6931	Ethics in ABA
EDG 6931	Observational Methods and Functional Assessment
MHS 6100	ABA in Complex Community Environments
PSY 6217	Single-Subject Design
MHS 6940	ABA Practicum

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

CANCER BIOLOGY PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Program Admission Deadlines:

Fall :

U.S.	February 1
International:	January 1

Minimum Total Hours:	96
Program Level:	Doctoral
CIP Code:	26.0911
Dept Code:	GRS
Program (Major/College):	CNB GS

CONTACT INFORMATION

College: Graduate Studies – Interdisciplinary
Department: Cancer Biology

Contact Information: www.grad.usf.edu

PROGRAM INFORMATION

The H. Lee Moffitt Cancer Center and the University of South Florida have joined together to establish a new graduate program focused specifically on Cancer Biology Tremendous advancement in the detection and treatment of cancer has occurred over the last decade, yet cancer continues to adversely effect millions of people worldwide in terms of quality of life, life span and economic burden.

The H. Lee Moffitt Cancer Center at the University of South Florida is a leading institution of basic research, clinical research and patient treatment. The H. Lee Moffitt Cancer Center has received national acclaim and is officially designated as a Comprehensive Cancer Center by the National Cancer Institute of the National Institutes of Health. The Cancer Biology Ph.D. Program's goal is to train the next generation of Cancer researchers. Studies of cancer require specific knowledge in multiple fields that have traditionally been independent. Our Cancer Biology Ph.D. program emulates the H. Lee Moffitt Cancer Center and eliminates these boundaries. Students will receive cancer-oriented training in: molecular biology, immunology, functional genomics, bioinformatics, drug discovery & development, cancer genetics, cancer prevention & control, cancer therapeutics, cell biology, biochemistry, proteomics chemistry.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Extensive background in field of biology or chemistry
2. GRE required for full consideration;
3. GPA of at least 3.0 or greater;
4. Advanced coursework and research experience preferred

DEGREE PROGRAM REQUIREMENTS

Course Requirements –
All students are required to successfully complete the Cancer Biology Program Core Courses. In addition students must successfully complete at least one elective course that have been approved by the Cancer Biology Education Committee. These elective courses are offered through Departments within the College of Medicine, Engineering, and Arts and Sciences. Dissertation Committees may also require students to take additional course work if needed to correct deficiencies. In special circumstances the Cancer Biology Education Committee can waive course requirements, if the student has recently completed identical coursework elsewhere. Students are required to achieve a minimum GPA of B in all Cancer Biology Core courses and an overall GPA of 3.0 (B) in order to remain in good standing.

Stipends: All Cancer Biology Ph.D. students in good standing will receive a highly competitive stipend ($20,600 for 2006 first year students) After successfully passing written and oral qualifying examinations, a student will receive a meritorious stipend increase at the beginning of their third year. Please visit the Program's website for current stipend levels. Students also receive health insurance coverage and direct payment in full of all required tuition. And required fees. All students are highly encouraged to apply for funding from outside sources.

Required Cancer Biology Core Courses

GMS 6056	Cancer Research Techniques
GMS 6054	Cancer Biology I
GMS 6055	Cancer Biology II
GMS 6080	Laboratory Rotations
GMS 6931	Directed Research
GMS 6060	Advances in Cancer Biology
GMS 6057	Current Topics in Oncology
GMS 6932	Selected Topics in Cancer Biology-Cancer Genetics

Examples of Approved Elective Courses

GMS 6200C	Core Courses in Medical Biochemistry
BCH 6411	Molecular Biology
GMS 6501	Cellular and Molecular Pharmacology
GMS 6100	Core Courses Medical Microbio & Immun.
GMS 6107	Advances in Virology
GMS 6130	Molecular Biology of Tumor Viruses
GMS 6111	Human Systemic Pathology
GMS 6112	Biochemical Pathology
GMS 6300C	Core Courses in Pathology
GMS 6334	Pathobiology of Human Cancer

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

ENTREPRENEURSHIP IN APPLIED TECHNOLOGIES PROGRAM

Master of Science Degree

DEGREE INFORMATION

Program Admission Deadlines:
Fall: June 1
Spring: October 15

Minimum Total Hours: 30
Program Level: Masters
CIP Code: 51.0701
Dept Code: DEA
Program (Major/College): EAT GS

CONTACT INFORMATION

College: Graduate Studies/ Interdisciplinary
Department: Center for Entrepreneurship

Contact Information: www.grad.usf.edu
Other Resources: www.usf4you

PROGRAM INFORMATION

The Center for Entrepreneurship at the University of South Florida, in conjunction with the Colleges of Business Administration, Engineering, and Medicine and the Graduate School, has established a novel, innovative, and unique program in interdisciplinary Entrepreneurship in Applied Technologies. The Master's of Science Degree Program in Entrepreneurship in Applied Technologies is a 30 credit-hour program and consistes of eleven (11) courses which will consolidate the Entrepreneurship education and training for successful opportunity recognition and development, technology and market assessment, technology commercialization, new venture formation, and new venture financing into a single inter-disciplinary program curriculum utilizing faculty and courses in the Colleges of Business Administration, Engineering, and Medicine under the auspices of the Graduate School. The program is designed such that a student may complete it in a concentrated 12-month period of studey or in an 18-month period. In addition, the Masters of Science Degree in Entrepreneurship is designed so that it can be completed as part of a dual-degree program in conjunction with a traditional M.A., M.S., M.B.A., M.D.., or Ph.D. program. The program must be completed by the student within a 5-year period following initiation.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
N/A

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

1. Bachelor's degree or equivalent from a regionally accredited university
2. "B" (3.0 on a 4.0 scale) average in all upper division work
3. Two (2) letters of recommendation
4. Letter of interest
5. Statement of purpose
6. Personal interview
7. GRE, GMAT may be required on individual basis; MCAT or LSAT may be substituted
8. Competence in Statistics, Accounting, and Finance must be demonstrated

DEGREE PROGRAM REQUIREMENTS

Program of Study
Course Requirements – Graduation will require successful completion of the 30 hour curriculum, with a minimum GPA of 3.00 (no grades below "C"), within a five (5) year period.

Stipends – N/A

Required Entrepreneurship Courses

GEB 6115 New Venture Formation or
EIN 6935 Technology Venture Strategies

GEB 6116 Business Plan Development or
EIN 6324 Technical Entrepreneurship

GEB 6930 Strategies in Technology Entrepreneurship
or
EIN 6936 Strategies in Entrepreneurship Technology

GMS 7930 Principles of Intellectual Property

EIN 6430 Overview of Regulated Industries

GEB 6930 Strategic Market Assessment for New Technologies or
EIN 6935 Strategic Market Assessments

GMS 7930 Medical Ethics & Humanities

GEB 6930 Adv. Topics in Applied Entrepreneurship

MAN 6930 Entrepreneurship Research Seminar

GEB 6930 Product Development or
EIN 6936 New Product Development

GEB 6930 Fundamentals of Venture Capital & Private Equity in Entrepreneurship or
EIN 6934 Venture Capital & Private Equity

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm or http://ce.usf.edu or http://www.entrepreneurship.usf.edu

Section 26
Accelerated Degree Programs

The following lists some of the Accelerated Programs offered through U.S.F. New accelerated programs may have been approved since the publication of this list, others may be closed for new admissions.. For a current list, refer to: http://admissions.grad.usf.edu/programs.asp. For information about the requirements for the 5-year program contact the program. At the time of publication there were 17 Accelerated Programs.

Program College(s)	Name of Program (Major) or Concentration (Specialization)	Degree	Program	Comments about the 5 year program
School of Architecture and Community Design	Architecture	M.Arc.	5 Year Program	2 plus 3 accelerated to the M.Arc. degree
College of Arts and Sciences	Addictions and Substance Abuse Counseling (Rehabilitation and Mental Health Counseling)	M.A.	5 Year Program Concentration	3 plus 2 accelerates to the MA
College of Arts and Sciences	Chemistry	BA/MA	5 Year Program	3 plus 2 – awards simultaneous degrees
College of Arts and Sciences	Marriage and Family Therapy (Rehabilitation and Mental Health Counseling)	M.A.	5 Year Program Concentration	3 plus 2 accelerates to the MA
College of Arts and Sciences	Mathematics	BA/MA	5 Year Program	3 plus 2 – awards simultaneous degrees
College of Arts and Sciences	Rehabilitation and Mental Health Counseling	M.A.	5 Year Program	3 plus 2 accelerates to the MA
College of Arts and Sciences	Speech - Pathology	M.S.	5 Year Program	3 plus 2 accelerates to the MS - Inactivated
College of Arts and Sciences and College of Business	Arts and Sciences and Business	BA or BS/MBA	5 Year Program	3 plus 2 may be mapped to most UG departments in AS and awards a BA or BS & MBA simultaneously
College of Business and Honors College	Business and Honors College	B.A./ M.B.A.	5 Year Program	
College of Education	Special Education, Varying Exceptionalities	BS/MA	5 Year Program	3 plus 2 – awards simultaneous degrees
College of Engineering	Engineering	M.E., M.S.	5 Year Program	3 plus 2 may be mapped to any Engineering department and awards the bachelor & master simultaneously

Accelerated Programs Continued…

College of Engineering	Engineering Science	M.S.E.S.	5 Year Program	3 plus 2 may be mapped to any Engineering department and awards the bachelor & master simultaneously
College of Medicine and Honors College	Medicine / Honors	BA/M.D.	7 Year Program	Medicine has an accelerated program agreement with the Honors College. The BA is awarded after the 4th year then the student accelerates to the 2nd year as a medical student.
College of Medicine and Honors College	School of Physical Therapy and Honors College	B.A./ D.P.T.	6 Year Program	
College of Nursing	Nursing	BS/MS	5 Year Program	UG with an AS in nursing progressing toward the MS in nursing - BS/MS simultaneous degrees
College of Nursing	Nursing Education (Nursing)	M.S.	5 Year Program Concentration	
College of Public Health	Public Health	MPH/ MSP	5 Year Program	Concentrations in Public Health Education admits UG students at 90 hours, PHC, and accelerates to the master degree

Section 27

Dual Degree Programs

As noted in Section 7 – Academic Policies – of this catalog:

Dual Degree Programs
A student may wish to pursue two degrees simultaneously. Upon approval by the appropriate College Dean(s) and Dean of the Graduate School, a prescribed number of courses (generally no more than nine (9) hours of core or basic courses) required for one degree may be applied to another degree that requires the same courses, without repetition or alternative courses. Procedures for applying for a Dual degree program are available on the Graduate School website.

The following lists some of the formalized Dual Degree Programs offered through U.S.F. New Dual Degree programs may have been approved since the publication of this list, others may now be closed to new admissions. For a current list, refer to: http://admissions.grad.usf.edu/programs.asp or contact the program of interest to see if your program qualifies for a Dual Degree option. Information about the degree requirements for these dual degrees may be found in the corresponding college sections of the catalog. Students may also enroll in non-formalized Dual Degree Programs by obtaining approval from the two programs of interest and the Graduate School. To apply for either a formalized Dual Degree, or to apply for a non-formalized Dual Degree, students must complete the Dual Degree Application, available online at: http://www.grad.usf.edu/newsite/forms/grad_forms.asp. At the time of publication there were nine (9) formalized Dual Degree Programs, 2 Dual Concentrations, and 1 combined program.

Program College(s)	Name of Dual Degree Programs	Dual/Joint Program	Degree
College of Arts and Sciences College of Public Health	Anthropology and Public Health	Dual Degree	M.A./M.P.H.
College of Arts and Sciences	Audiology and Communication Sciences and Disorders	Dual Degree	Au.D./Ph.D.
College of Arts and Sciences College of Engineering	Engineering Science and Physics	Joint Degree	M.A.
College of Arts and Sciences College of Engineering	Engineering Science and Physics	Joint Degree	Ph.D.
College of Public Health	Epidemiology and Biostatistics	Dual Concentration	
College of Public Health	Epidemiology and Global Health	Dual Concentration	M.P.H.
College of Arts and Sciences College of Engineering	Physics and Engineering Science	Joint Degree	Ph.D.
College of Arts and Sciences College of Education	Religious Studies and Education -	Dual Degree	M.A.
College of Arts and Sciences College of Public Health	Anthropology and Public Health	Dual Degree	Ph.D./M.P.H.
College of Arts and Sciences College of Public Health	Maternal and Child Health and Clinical Social Work	Dual Degree	MPH / MSW
College of Medicine College of Public Health	Physical Therapy and Public Health	Dual Degree	D.P.T./M.P.H.
College of Medicine	Medicine/Medical Sciences	Combined Program	M.D. / Ph.D.

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Section 28
Graduate Course Information

To view the Course Listing with Course Descriptions, see Section 29.

Courses offered for credit by the University of South Florida are listed with the program or college that offers them. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Florida's Statewide Course Numbering System
Courses in this catalog are identified by prefixes and numbers 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."

Courses are created using the State Coursewide Numbering System (SCNS). The following information is from the SCNS Handbook. For more information visit their website at: http://scns.fldoe.org/scns/public/pb_index.jsp#

The SCNS uses a course designation which consists of a three-letter prefix and a four digit number and, when necessary, a one-letter laboratory (L) or lecture/laboratory (C) suffix.

Example:	SCNS COURSE ID			
	AML	**6**	**017**	**-**
	Prefix	Level	Denotes Content	Laboratory Suffix

Explanation: AML 6017, Studies in American Literature to 1860

American Studies course taught at the graduate level (no lab).

A level code, which roughly corresponds to the year in college the course is normally taken (i.e., masters, doctoral, etc.), is placed between the course prefix and the course number. The level is recommended by the institution according to its own policies and the policies of the State of Florida, and approved by the faculty committee. **The level digit does not affect course equivalency – course equivalency is determined by the prefix and the last three digits**. The following are the level definitions:

0 PSAV, college prep, vocational prep

1-2 Lower-level undergraduate

3-4 Upper-level undergraduate

5-9 Graduate and Professional

Courses are numbered based on content, rather than by department or program. This means that a single program may have courses in several different disciplines and may consist of courses having several different prefixes.

Glossary of Course Description Terms
Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:

PHY 3040, 3040L PHYSICS AND LAB (3:1)

Credits separated by a comma indicate unified courses offered in different semesters:

AMH 2010, 2020 AMERICAN HISTORY I, II (4, 4)

Credits separated by a hyphen indicate variable credit:

MAT 7912 DIRECTED RESEARCH Var.

The following abbreviations are used in various course descriptions:

G	Graduate
PR	Prerequisite
CI	With the consent of the instructor
CC	With the consent of the chairperson of the department or program
CR	Co-requisite
Lec	Lecture
Lab	Laboratory
Dem	Demonstration
Pro	Problem
Dis	Discussion
ML	Master's Level
GS	Graduate Standing
Rpt	May be repeated
UL	Upper level
S/U	No grade, Satisfactory/Unsatisfactory Only

Course Level Definitions:

5000-5999	Graduate Level
6000	Graduate Level
7000	Doctoral Level
8000	Professional

The University reserves the right to substitute, not offer, and add courses and programs that are listed in this catalog.

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, General	Freshman Level at this institution	Entry-level General Sociology	Survey Course	Social Problems	No lab in this course

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 34 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students

normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which may meet at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college while the same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university upon transfer. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution to offer transfer credit for courses successfully completed which have not been designated as equivalent.

The Course Prefix
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the prefix designation.

Authority for Acceptance of Equivalent Courses
State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

When a student transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The award of credit may be limited to courses that are entered in the course numbering system. Credits so awarded shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency
The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

- Courses in the *900*-999 series(e.g., HUM 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
- 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 Undergraduate Studies (for questions pertaining to graduate and undergraduate courses) 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 telephone number (850) 245-0427 or SunCom 205-0427.

To view the course listing with descriptions, see the Search-a-Bull Database online at: http://www.ugs.usf.edu/sab/sabs.cfm or refer to the Graduate Catalog Appendix.

ACG	5205	Advanced Financial Accounting	3	BA	ACC	PR: ACG 4123	Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships.
ACG	5505	Governmental/Not-For-Profit Accounting	3	BA	ACC	PR: ACG 4123. CR: ACG 4632.	Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.
ACG	5675	Internal and Operational Auditing	3	BA	ACC	PR: ACG 3113 and ACG 3401. CR: ACG 4632.	The objective of Internal and Operational Auditing is to provide students with an opportunity to learn about the theory and practice of internal and operational auditing and to apply relevant audit principles and techniques to selected audit problems.
ACG	6025	Financial Accounting for Managers	2	BA	MBA	Not available for credit for graduate students in the Master of Accountancy program.	Study of (1) accounting concepts and standards applicable to presentation of financial information to interested users, (2) structure and interpretation of financial statements, especially issues of income determination and assessment measurement.
ACG	6028	Measuring Organizational Effectiveness	3	BA	ACC		This course provides a graduate level introduction to financial and non-financial performance measures. The course considers how stakeholders of private and public sector organizations use financial and non-financial measures to access how well, and at what cost, these organizations are able to achieve strategic/operating goals and objectives.
ACG	6075	Management Accounting and Control	2	BA	MBA	PR: ACG 6025. Not available for credit for graduate students in the Master of Accountancy program.	Deals with management accounting systems for different types of entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.
ACG	6346	Contemporary Issues in Managerial Accounting	3	BA	ACC	PR: ACG 3341 or equivalent and admisison to the MAcc program.	The evolution of cost accounting systems, and the impact of new managerial accounting philosophies in the modern international manufacturing environment, including a discussion of current issues and controversies involving managerial accounting.
ACG	6405	Advanced Accounting Information Systems	3	BA	ACC	PR: Admission to MAcc and ACG 6835.	This course focuses on business process modeling techniques for creating advanced enterprise-wide accounting systems. The course also focuses on information systems risks, controls and auditing, and enterprise resource planning systems.
ACG	6457	Accounting Systems Audit, Control, and Security	3	BA	ACC	PR: ACG 3401, ACG 6405 or equivalent.	An in-depth study of contemporary systems control security from an audit perspective. Course topics will include: IS audit standards, contemporary AIS technologies,

							and the development and maintenance of AIS integrity.
ACG	6476	Contemporary Issues in Accounting Information Systems	3	BA	ACC	PR: ACG 6405 or equivalent.	An in-depth study of current accounting information systems issue confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field.
ACG	6636	Contemporary Issues in Auditing	3	BA	ACC	PR: ACG 4632	This course explores contemporary auditing issues and advanced topics concerning the changing role of the audit assurance function and changing audit processes. Topics include audit reporting, auditing in advanced computerized environments, audit judgment, quality control, and regulation of the profession.
ACG	6637	Contemporary Issues in Accounting Information Systems	3	BA	ACC	PR: ACG 6405 or equivalent	An in-depth study of current accounting information systems issues confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field.
ACG	6835	Accounting Skills, Values, and Information Technology	3	AS	ACC	PR: Admission into MA Accountancy Program.	This course is designed to introduce Master of Accountancy students to the basic skills, competencies, and technologies of accounting.
ACG	6875	Financial Reporting and Professional Issues	3	BA	ACC	PR: Admission to MAcc program. CP: ACG 6835.	A study and evaluation of the evolution of current financial accounting theory. An examination of financial accounting objectives, measurement models, and controversial issues, from both a financial reporting and professional (auditing) perspective.
ACG	6905	Independent Study	1-19	BA	ACC	PR: CC. S/U.	Independent Study. Student must have a contract with an instructor.
ACG	6915	Directed Research	1-19	BA	ACC	PR: GR. M.L, CC. S/U.	
ACG	6932	Integrative Accounting Seminar	3	BA	ACC	PR: Enrolled in final semester of program	Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized in separate courses.
ACG	6936	Selected Topics in Accounting	1-4	BA	ACC	PR: CC	The course content will depend on student demand and instructor's interest.
ACG	7156	Seminar in Financial Accounting	3	BA	ACC	PR: ACG 6875 or CI	This course investigates advanced research and methodological issues in financial accounting. It focuses primarily on research which uses financial information in contexts external to the firm.
ACG	7356	Seminar in Management Accounting	3	BA	ACC	PR: ACG 6346 or CI	Review and critical analysis of management accounting foundation with emphasis on the current research methods in organizational behavior aspects and multiple criteria decision methods.
ACG	7415	Seminar In Accounting Information Systems	3	BA	ACC	PR: ACG 6405 or CI.	Review and critical analysis of major topics and research methods in accounting information systems.

ACG	7646	Seminar in Auditing	3	BA	ACC	PR: ACG 6636 or equiv. or CI.	This course involves a study of state-of-the-art research techniques as applied to major auditing issues and a critical analysis of the reported research findings.
ACG	7936	Seminar On Special Topics In Accounting	1-4	BA	ACC	PR: CI.	Coverage of particular topics of interest to doctoral faculty and students during any given semester.
ACG	7980	Dissertation in Accounting	2-21	BA	ACC	PR: Completion of comprehensive exams and CI.	Research and writing of a dissertation on an accounting topic.
ADE	6080	Adult Education in the United States	4	ED	EDV		A study of the adult education movement in the United States from its beginnings to the present lifelong learning enterprise it has become. Economic and cultural factors of the past are examined with a view toward implications for the future.
ADE	6160	Program Management in Adult Education	3	ED	EDV		An examination of the methods for establishing a productive adult education program, and the principles and procedures involved in designing, organizing, operating, and evaluating comprehensive adult education programs.
ADE	6161	Curriculum Construction in Adult Education	4	ED	EDV		Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation. Concentrates on basic principles affecting the planning of Adult Education activities, including an overview of the human forces that both impinge on and motivate human behavior in an adult learning environment.
ADE	6197	Adult Basic Education	4	ED	EDV		An overview of adult basic education with an emphasis on current issues and problems of curriculum and instruction in program development and on culturally different adults.
ADE	6198	Effective Continuing Education for Professionals	3	ED	EDV	PR: ADE 6385 and ADE 6080 or Permission from Instructor.	This course will provide a description, explanation and critque of the goals, processes, outcomes, and issues related to the continuing education of professionals. The design, development and administration of these programs will be explored.
ADE	6280	Administration in Local Adult Education Programs	4	ED	EDV		A study of the organization, selection of personnel, assignment of duties and responsibilities, and establishment of policies and procedures to accomplish the objectives of the local program within federal, state, and local requirements.
ADE	6287	Supervision of Local Adult Education Programs	4	ED	EDV		A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.
ADE	6360	Methods of Teaching	3	ED	EDV		An exploration of different

		Adult Education					methods, techniques, and materials available to help adults learn. Concentration on the process of designing effective learning experiences for adults and developing the competencies of self-directed learning.
ADE	6370	Trainers in Business and Industry	3	ED	EDV		A study of trainers in business and industry and acquisition of several key competencies required to fulfill this role.
ADE	6385	The Adult Learner	3	ED	EDV		An investigation of the physiological and psychological changes in the adult life span and the implications these have for adult learning capabilities. Concentration on the identification of principles of adult learning, differences between adults and youth as learners, and a review of research on adult learning.
ADE	6946	Practicum in Adult Education	1-6	ED	EDV		A problem-centered field study in the local community, school, government, office, social agency, business, or industry setting.
ADE	6971	Thesis: Masters/Education Specialist	2-19	ED	EDV	S/U. Ma/EdS Candidates only.	Thesis/Specialist project hours.
ADE	7076	Continuing Education in Higher Education	3	ED	EDV	PR: ADE 6385 and ADE 6080 or Permission from Instructor.	This course will explore the history, relevant research and the current practices in community college and higher education continuing education program and administrative units.
ADE	7388	Adult Development and Learning	3	ED	EDV	PR: ADE 6385 or equiv.	This is an advanced, in-depth study of the distinctive characteristics of adult life and learning.
ADE	7676	Human Resource Development Policy Seminar	3	ED	EDV	PR: ADE 6370 or Permission of Instructor.	This course emphasizes complex skills, concepts and strategies related to the adult teaching/learning component and policy formation of human resource development in business, industry, government, education, and voluntary organizations.
ADE	7910	Directed Research In Adult Education	1-4	ED	EDV	PR: Advanced graduate level.	Directed research on topics related to adult education.
ADE	7930	Seminar in Adult Education	4	ED	EDV	PR: ADE 6385 and ADE 6080 or Permission from Instructor.	This is an intensive induction into doctoral studies in adult education stressing scholarly inquiry, professionalism, collegiality, and the doctoral degree process.
ADE	7937	Seminar In Adult Education	1-4	ED	EDV	PR: Advanced graduate level.	Seminar in advanced topics in Adult Education.
ADE	7947	Advanced Internship: Adult Education	1-4	ED	EDV	PR: Advanced graduate level only. S/U.	
ADE	7980	Dissertation	2-30	ED	EDV	PR: Admitted to Candidacy.	Dissertation hours.
AFA	5935	Issues in Africana Studies	1-4	AS	AFA		Variable topics course focusing on the history, culture, and lived experiences of Africans, African American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics vary.
AFA	6108	Social Construction of Race and Racism	3	AS	AFA		Examinations of the social construction of race, racism, racial

							identities and cross-racial relationships in the US from the colonial period to present.
AFA	6318	Black English	3	AS	AFA		Black English focuses on linguistic patterns among African Americans in the US, South Central America and the Caribbean. It examines language in relation to issues of domination, education, economics, social stratification, and political empowerment. It is open to majors and non-majors and is cross-listed with ISS.
AFA	6338	Black Women Writers	3	AS	AFA		Black Women Writers focuses on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political, economic, and spiritual lives of Africana women in context of a global community. The course is open to majors and non-majors and is cross-listed with Women's Studies, English and ISS.
AFA	6390	The Global Challenge of Diversity	3	AS	AFA		This course focuses on human differences arising from social, cultural, and genetic origins and how they lead to social inequality. Genocide and the depletion of natural resources, are used as models for ethical decision making.
AFA	6905	Independent Study	1-19	AS	AFA	PR: CI, MI.	Course consists of advanced graduate research on Africana studies topics selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.
AFA	6910	Directed Research	1-12	AS	AFA	PR: CI, Departmental Approval.	Course consists of directed research on Africana studies topic selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.
AFA	6932	Topics in Africana Studies	3	AS	AFA		Variable topics course focusing on the history, culture, and lived experiences of African, African-American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics may vary.
AFA	6945	Internship	1-3	AS	AFA	PR: CI, Approval of Thesis Committee	This course involves working with a local agency (gov't., NGO, private, etc.) on topic related to the theme of the MA degree, researching and documenting the process and preparing the data for writing the masters thesis.
AFA	6971	Thesis	2-19	AS	AFA	PR: Department, Major professor and thesis committee approval.	Thesis.
AML	6017	Studies in American Literature to 1860	3	AS	ENG		Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others.
AML	6018	Studies in American	3	AS	ENG		Selected focused studies in

		Literature 1860 to 1920					American literature: Dickinson, Whitman, Twain, Howells, James, Jewett, Chopin, Crane, Dreiser, and others.
AML	6027	Studies in Modern American Literature	3	AS	ENG		Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O'Neill, Miller, Anderson, Wolfe, Cummings, Frost, Pound, and Eliot.
AML	6608	Studies in African American Literature	3	AS	ENG		Focuses on varied topics in African American literature such as African American Fiction and the Harlem Renaissance. Topics will supply greatly needed coverage of increasingly important areas of American and African American literature, history, and culture.
AMS	6002	American Lives	3	AS	AMS	PR: GS, CI.	Open to non-majors. An interdisciplinary approach to the study of autobiography. Examines the relationship between identity and community in classic American autobiographies. Utilizes autobiography as a resource of social and cultural history which provides insights regarding the complex interaction between a life, a mind, and a text.
AMS	6156	Theories and Methods of Cultural Studies	3	AS	AMS	PR: GS.	This course examines the relationship between the arts and society by introducing various approaches to the study of literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and American Studies.
AMS	6254	Decade in Depth	3	AS	AMS		Open to non-majors. Interdisciplinary analysis of American life during a specific cultural era.
AMS	6375	The American South	3	AS	AMS		Open to non-majors. Examines the region since Reconstruction through architecture, art, literature, photography, music, history and interdisciplinary perspectives.
AMS	6805	Major Ideas in American Civilization	3	AS	AMS		Open to non-majors. Investigates the role of one or more influential ideas in American culture, e.g., community, domesticity, democracy, slavery, progressivism, radical reform.
AMS	6901	Directed Readings in American Studies	1-3	AS	AMS	PR: CI, CC. S/U.	Open to non-majors. A supervised program of intensive reading.
AMS	6915	Directed Research	1-12	AS	AMS	PR: GR, ML. S/U.	
AMS	6934	Selected Topics	1-3	AS	AMS		Open to non-majors. Variable topics such as American Autobiography, Film in American Culture, and Photography in American Culture.
AMS	6938	Seminar in American Studies	3	AS	AMS		Open to non-majors. Advanced interdisciplinary research. Topics include Popular Culture, Material Culture, Native American Culture.
AMS	6940	Internship in American Studies	1-3	AS	AMS	PR: Majors only. S/U.	A structured, out-of-class learning experience providing first hand,

							practical training in American Studies-related professional careers.
AMS	6971	Thesis: Master's	2-19	AS	AMS	Z/U.	
ANG	5395	Visual Anthropology	3	AS	ANT	PR: Graduate standing.	This class will examine the major dimensions of visual anthropology with an emphasis on the visual means of presenting anthropology to the discipline and general public. The course will focus on visual documentation and study of visual images.
ANG	5486	Quantitative Methods in Anthropology	3	AS	ANT	PR: Graduate Standing.	This course is an introduction to quantitative methods for the anthropologist covering both classical statistical approaches and exploratory data analysis, using computers with statistical software.
ANG	5901	Directed Reading	1-4	AS	ANT	PR: DPR. S/U.	Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.
ANG	5910	Individual Research	2-4	AS	ANT	PR: DPR. Contract required prior to registration. S/U.	Individual guidance in selected research project.
ANG	5937	Seminar In Anthropology	2-4	AS	ANT	PR: Senior or GS.	Topics to be chosen by students and instructor.
ANG	6115	Seminar In Archaeology	3	AS	ANT	PR: GS in Anthropology.	An advanced critical survey of archaeology emphasizing contributions to applied anthropology, required of all Public Archaeology students..
ANG	6118	Topics in Archaeological Science	3	AS	ANT	PR: Graduate Standing.	This course focuses on the application of scientific methods of analysis to archaeological materials, including bone, stone, pottery, and metal. Repeatable for up to 6 hours.
ANG	6153	Topics in North American Archaeology	3	AS	ANT	PR: Graduate Standing.	Comprehensive understanding of the prehistoric development of American Indian cultures in the main geographical regions, with emphasis on current issues in cultural resource management. Repeatable for up to 6 hours.
ANG	6163	Topics in Mesoamerican Archaeology	3	AS	ANT	PR: Graduate Standing.	This course explores the distinctive features of the evolving cultural traditions of Mesoamerica.This course identifies the major issues and methodolgical approaches of Mesoamerican archaeology. Repeatable for up to 6 hours.
ANG	6165	Topics in South American Archaeology	3	AS	ANT	PR: Graduate Standing.	This course introduces the prehistoric and early historic cultural chronology of the South American continent, with an emphasis on current research and controversies and perspectives from cultural ecology. Repeatable for up to 6 hours
ANG	6175	Topics in Mediterranean Archaeology	3	AS	ANT	PR: Graduate Standing.	A graduate seminar in Mediterranean archaeology, spanning prehistory and the early historical period, and will examine

							subsistence adaptations, island settlement, trade, technology, religion, rise of complex societies and early states. Repeatable to 6 hr.
ANG	6196	Archaeology Theory and Current Issues	3	AS	ANT	PR: GS in Anthropology.	Methodology and theory in archaeology, analysis, interpretation of data.
ANG	6197	Cultural Resource Management	3	AS	ANT	PR: GS.	Current topical issues in Public Archaeology. Open to non-majors.
ANG	6198	Regional Problems in Methods of Public Archaeology	3	AS	ANT	PR: GS.	Contemporary problems in Public Archaeology in the context of a specific region. Open to non-majors.
ANG	6270	Chiefdoms	3	AS	ANT	PR: Graduate standing, instructor consent.	This course examines theory and data on the emergence of chiefly forms of social organization using case studies from both ethnography and prehistory, and focusing on classic works of cultural evolution and recent critiques of the chiefdom concept.
ANG	6393	Anthropology, Contemporary Culture and the Media	3	AS	ANT	PR: GS or CI.	Course entails the anthropological study of the roll of media in contemporary culture. Selected issues include the cultural impact of images and gender/ethnic stereotypes. Special attention will be paid to ethnographic studies of media audiences, and a central theme will be the roll of media in a global, multi-cultural context.
ANG	6447	Selected Topics in Urban Anthropology	3	AS	ANT	PR: GS.	Current topical issues in Urban Anthropology. Open to non-majors.
ANG	6448	Regional Problems in Urban Anthropology	3	AS	ANT	PR: GS.	Contemporary problems in Urban Anthropology in the context of a specific region. Open to non-majors.
ANG	6463	Social Epidemiology Applied Anthropology	3	AS	ANT	PR: GS or CI.	An advanced medical anthropology course on the application of methods and concepts from social epidemiology as relevant to cultural analysis.
ANG	6465	Regional Problems in Medical Anthropology	3	AS	ANT	PR: GS.	Contemporary problems in Medical Anthropology in the context of a specific region. Open to non-majors.
ANG	6468	Applied Anthropology and International Health	3	AS	ANT		An advanced international anthropology course on the health issues, organization, people, policies and limitations of the arena of international health.
ANG	6469	Selected Topics in Medical Anthropology	3	AS	ANT	PR: GS.	Current topical issues in Medical Anthropology. Open to non-majors.
ANG	6490	Seminar in Cultural Anthropology	3	AS	ANT	PR: GS in Anthropology.	A critical advanced survey of Cultural Anthropology emphasizing contributions to Applied Anthropology, required of all MA students.
ANG	6495	Oral History and Life History: Approaches to Qualitative Research	3	AS	ANT	PR: GS or CI.	A in-depth survey of the methods, concepts, and practical applications of narrative-based qualitative research, featuring critical readings in case studies, and individual and group projects.
ANG	6511	Seminar in Physical Anthropology	3	AS	ANT	PR: GS in Anthropology.	A critical advanced survey of Physical Anthropology

							emphasizing contributions to Applied Anthropology.
ANG	6676	Seminar in Anthropological Linguistics	3	AS	ANT	PR: GS in Anthropology.	A critical advanced survey of Anthropological Linguistics emphasizing contributions to Applied Anthropology.
ANG	6701	Contemporary Applied Anthropology	3	AS	ANT	PR: GS.	A critical survey of Applied Anthropology as practiced today in the major branches of Anthropology, focusing on Applied, Medical, and Urban Anthropology. Open to non-majors.
ANG	6706	Foundations of Applied Anthropology II	3	AS	ANT	PR: Graduate standing, ANG 6931.	This course is the second part of a two-course sequence required of all MA students in the anthropology department. This course provides students with foundational understandings of the epistemologies underlying contemporary applied anthropology.
ANG	6730	Socio Cultural Aspects of HIV/AIDS	3	AS	ANT	PR: Graduate Standing.	This course is designed to provide an overview of the different social, economic, cultural, political, and ethical issues surrounding the spread of HIV/AIDS around the world.
ANG	6766	Research Methods in Applied Anthropology	3	AS	ANT	PR: GS.	Research design, data collection, and data analysis for Applied Anthropologists with urban and medical interests. Emphasis will be on non-quantitative research methods. Open to non-majors.
ANG	6905	Independent Study	1-19	AS	ANT	Departmental approval required. S/U only.	Independent study in which students must have a contract with an instructor.
ANG	6915	Directed Research Internship	1-19	AS	ANT	PR: GR. ML. S/U. DPR.	
ANG	6931	Foundations of Applied Anthropology I	3	AS	ANT	PR: Graduate standing in anthropology.	MA Foundations of Applied Anthropology I provides graduate students with an introduction to the philosophical basis of contemporary anthropology.
ANG	6971	Thesis: Master's	2-19	AS	ANT	Departmental approval required. S/U only.	
ANG	7703	History and Theory of Applied Anthropology	3	AS	ANT	PR: 6D in Anthropology.	The history and theoretical development of Applied Anthropology, including cultural resources management are discussed in the context of the overall development of Anthropology as a discipline and profession.
ANG	7704	Legal and Ethical Aspects of Applied Anthropology	3	AS	ANT	PR: 6D in Anthropology.	Development and nature of professional ethics in Applied Anthropology, including legal and quasi-legal regulations pertaining to human subjects research, cultural resources management, historic preservation, privacy, and freedom of information. Open to non-majors.
ANG	7750	Research Methods in Applied Anthropology	3	AS	ANT	PR: GS.	Critical review of specific approaches to the development, management, and analysis of sociocultural data. Emphasis on qualitative and quantitative

							applications of field oriented research designs. Open to non-majors.
ANG	7905	Directed Individual Study	1-15	AS	ANT	PR: DPR. S/U.	An advanced reading program of selected topics in Applied Anthropology under the supervision of an anthropology faculty member. A written contract describing requirements must be signed by the student and faculty member prior to registration.
ANG	7910	Directed Research	1-15	AS	ANT	PR: DPR. S/U. A written contract describing requirements must be signed by the student and the instructor.	An advanced directed research program in a selected topic of Applied Anthropology under the supervision of an anthropology faculty member.
ANG	7930	Principles of Human Social Organization	3	AS	ANT	PR: Advanced Graduate Standing.	A critical cross-cultural examination of principles that underlie the organization of human associations such as kinship, residence, ethnicity, reciprocity, hierarchy, stratification at levels from domestic to multinational organization.
ANG	7933	Selected Topics in Applied Anthropology	3	AS	ANT	PR: Advanced Graduate Standing.	An overview of Applied Anthropology in its relation to a major mode of public/private activity, e.g., planning, clinical practice, policy process, or advocacy. Open to non-majors.
ANG	7934	The Clientele of Applied Anthropology	3	AS	ANT	PR: Advanced Graduate Standing.	Review of the literature and practice of Applied Anthropology focusing on a specific segment or interest group within contemporary society. Typical offerings include: ethnic minorities, age categories, communities, the poor, migrants, public/private organizations, and industry. Open to non-majors.
ANG	7936	Applied Anthropology and Human Problems	3	AS	ANT	PR: Advanced Graduate Standing.	Examination of specific problem areas of social significance and policy relevance. Typical offerings include: substance abuse, disease, mental health, international development, urban design, and education. Open to non-majors.
ANG	7938	Doctoral Proseminar in Applied Anthropology	3	AS	ANT		Emphasizing the process of doing "four-field" anthropology (biological, archeological, linguistic, and cultural), conceptualizing research questions, identifying, gathering and analyzing data. How application and theory are integrated and how this integration is vital to the conduct of good anthropology with a variety of anthropological ideas.
ANG	7940	Doctoral Internship in Applied Anthropology	1-15	AS	ANT	PR: Admission to Doctoral Candidacy, CI. S/U.	Supervised training in practicing Anthropology in a non-academic setting, focusing on the applications of Anthropology. A written contract describing requirements must be signed by the student, the faculty advisor, and the agency supervisor prior to registration.

ANG	7980	Dissertation: Doctoral	2-15	AS	ANT	PR: Admission to Candidacy.	
ARC	5175	Computer Technology	3	AR	ARC	PR: CC.	Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting.
ARC	5216	The Building Arts	3	AR	ARC	PR: CC.	Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specialization of the experts involved the process, and in the various academic courses that prepare the architect for practice.
ARC	5256	Design Theory	3	AR	ARC	PR: DPR.	Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematic as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design.
ARC	5361	Core Design I	9	AR	ARC	PR: CC.	First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.
ARC	5362	Core Design II	9	AR	ARC	PR: ARC 5361, CC.	Second of a two semester Design Fundamentals/Design Graphics sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students examine the work of significant architects and use it as a basis for design exploration. Graphic documentation, diagramming, and model studies are stressed.
ARC	5363	Core Design III	6	AR	ARC	PR: ARC 5362, ARC	Study of the various phases of the

						5467, ARC 5587, ARC 5731. CO: ARC 5689.	building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use one such systematic approach in the investigation and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants.
ARC	5364	Advanced Design A	6	AR	ARC	PR: ARC 5363. CP: ARC 5588, ARC 5467.	Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.
ARC	5365	Advanced Design B	6	AR	ARC	PR: ARC 5363. CP: ARC 5588, ARC 5467.	Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.
ARC	5366	Advanced Design C	6	AR	ARC	PR: ARC 5363. CP: ARC 5588, ARC 5467.	Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Restoration and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.
ARC	5467	Materials and Methods of Construction	4	AR	ARC	PR: ARC 5470, CC.	Overview of properties of primary materials and construction systems which comprise building structure and enclosure. Emphasis on interface and connection of elements and assemblies, relative to climate, assembly processes, costs, codes, and craftsmanship. Lab sessions

							include field trips to manufacturing facilities, construction sites, and preparation of drawings and models of assemblies.
ARC	5470	Introduction to Technology	3	AR	ARC		Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.
ARC	5587	Structures I	3	AR	ARC	PR: Calculus, Physics, and ARC 5470, CC.	Review of static and mechanical principles of materials. Analysis and evaluation for appropriate selection of structural systems and elements. Analysis and design of timber and steel structures, based on moment, shear, and deflection. Fundamentals of wind and seismic design as they apply to wood and steel construction. Truss analysis, beam and column behavior.
ARC	5588	Structures II	3	AR	ARC	PR: ARC 5587, CC.	Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and elements, including practical application in building construction. Prestressing, post-tensioning, hybrid assemblies. Fundamentals of wind and seismic design. Formwork, placement, and assembly techniques.
ARC	5689	Environmental Technology	4	AR	ARC	PR: Physics, ARC 5470, CC.	Comprehensive review of mechanical, electrical, and plumbing systems for buildings. Energy utilization, heating and cooling, water delivery and waste removal, fire protection, illumination, transportation systems, and acoustics. Lab exercises include computer simulations, illumination studies, thermal performance studies.
ARC	5731	Architectural History I	3	AR	ARC		Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.
ARC	5732	Architectural History II	3	AR	ARC		Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological, and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student's own approach. Emphasis will be on the built environment of Europe and America.

ARC	5789	Modern Architecture History	3	AR	ARC	PR: CC, CI.	Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the "New Architecture" as defined by those who broke tradition and expressed the new era using modern construction materials and techniques.
ARC	5793	History Abroad	3	AR	ARC	PR: CC.	Summer study abroad. Location and description varies from year to year.
ARC	5794	Florida Architectural History	3	AR	ARC		An examination of the environmental, sociological, technological, political, economic, cultural, and other factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.
ARC	5920	Architectural Design Studio Abroad	5	AR	ARC	PR: CC.	Summer study abroad. Location and description varies from year to year.
ARC	5931	Special Studies in Architecture	1-5	AR	ARC	PR: CC.	Variable titles offered on topics of special interest.
ARC	6176	Advanced Computer Technology	3	AR	ARC	PR: ARC 5175, CC.	Elective course dealing with further development of CAD skills, focusing on three-dimensional modeling. A wide range of software programs is included which explores painting and shading, surface textures, 3D detail studies, perspectives, and oblique representations.
ARC	6287	Professional Practice I	3	AR	ARC	PR: ARC 5216, ARC 5364, CC.	Introduction and overview of professional practice, emphasizing business, organization, management, and marketing. Legal, economic, and ethical aspects of project procurement, design services, and delivery. Contracts, owner-contractor-architect roles and responsibilities.
ARC	6288	Professional Practice II	3	AR	ARC	PR: ARC 6287, CC.	Continued overview of professional practice, emphasizing legal, economic, and ethical aspects of practice. Project planning, funding, administration, risk management, and performance. Topics include: estimating, financing, life-cycle cost analysis, information resources and management.
ARC	6367	Advanced Design D	6	AR	ARC	PR: ARC 5364, ARC 5365, ARC 5366	Comprehensive studio problems emphasizing the integration of disciplinary and professional skills through the formulation of architectural propositions grounded in critical, speculative, and creative research.
ARC	6397	Introduction to Urban Design Theory, Methods & Processes	3	AR	ARC	PR: CC.	Introduction to the concepts, methods, and manifestations of urban design and city-building.

							Focus on both traditional city and modern city conditions. Student will gain a basic understanding of the design structure, order, function and character of cities and towns and assess various qualitative aspects of these conditions. Relationships between processes of architecture, landscape architecture, site planning, preservation and other relevant acts of city-building will be considered as referential points-of view in assessing certain complexities of urban morphology.
ARC	6471	Advanced Topics in Materials and Methods	3	AR	ARC	PR: ARC 5175, ARC 5587, and ARC 5588, CC.	Analysis and design of advanced construction assemblies. Specific focus on application and integration of multiple systems and components. Research in new materials and methods. Documentation and model and analysis.
ARC	6481	Design Development	4	AR	ARC	PR: ARC 5467, ARC 5588, ARC 5689, ARC 5365	Summary course in the technology sequence in which construction, structural, and environmental technology systems are integrated within architectural design projects. Emphasis is placed on the poetic as well as the technical aspects of building systems.
ARC	6692	Advanced Topics In Environmental Technology	3	AR	ARC	PR: ARC 5175, ARC 5689, CC.	Analysis and preliminary design of advanced environmental control systems; specific focus on architectural applications; integration with structural and construction systems. Research of special aspects of ET systems, computer simulation and analysis techniques.
ARC	6971	Master's Project	6	AR	ARC	PR: ARC 6974.	The Master's Thesis represents the most significant project in the student's academic preparation for a career in architecture, and the demonstration of the student's ability to synthesize learned skills into a convincing independent work of professional quality. The Master's Thesis will typically be a major design project, although the format of a more traditionally academic thesis is also possible. In either case, the student will work with a committee composed of advisors of his/her choice in selecting the topic of the project, organizing and carrying out the work in an independent and self-paced manner. The outcome should be an original project which demonstrates the student's academic and professional competence according to the state of the art.
ARC	6974	Master's Project Planning	3	AR	ARC	PR: Two of ARC 5364, 5365, 5366	The Master's Project (ARC 6971) will call for the student's independent selection, organization, programming and design of a complex project. This course aims at preparing students

							for these tasks by exploring potential topics for master's projects and theses, introducing the concepts of architectural facility programming, methods of gathering, organization, analysis and evaluation of information needed for the project, and by studying the process of writing proposals for the master's project that clearly communicate the problem or task, goals and objectives, the proposed approach and procedure, the expected outcome, as well as the work plan and schedule for such a project and the time and resources required. At the end of the course, students will have prepared an acceptable master's project proposal which will allow them to proceed with the master's project during the following term.
ARC	6976	Terminal Master's Project	6	AR	ARC	PR: ARC 6970	Students will independently investigate an architectural topic of personal interest. The requirements the submission of a research and design document and the preparation of juried presentation of the work.
ARE	6262	Management Design for Art Institutions	3	VP	ART		Principles of administration and supervision of art programs in the school and art institutions.
ARE	6358	Art for the Elementary School Teacher	3	VP	ART		Exploration of various materials and techniques in relationship to current theories about art and the intellectual, creative, emotional, and aesthetic growth of children.
ARE	6746	Basis of Inquiry Into Artistic Mind	3	VP	ART		An in-depth study of the contemporary basis of inquiry into artistic mind including a multi-disciplined review of literature and research in art education. Includes a visual inquiry project.
ARE	6844	Experiential and Theoretical Basis of Artistic Mind	3	VP	ART		Experiential and theoretical explorations into past and contemporary philosophies and practices in art and art education.
ARE	6944	Field Work in Art Education	1-4	VP	EDA		For student with degree-seeking status. Supervised participation in activities related to art education in community centers, nonschool arts program, planned workshop and research.
ARH	5451	Cultural and Intellectual History of Modern Art	4	VP	ART	PR: CI.	A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and intellectual history.
ARH	5813	Methods of Art History	4	VP	ART	Must be taken during the student's first two semesters in the M.A. program	This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation.
ARH	5836	Collection and Exhibition Management	3	VP	ART	PR: Art Advisor's Approval	This class will introduce students to the basic principles of collections care and management and to the intellectual and practical

							tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storageand exhibition, and the professional responsibilities of the curator.
ARH	6055	Art History	4	VP	ART	PR: CI. Registration by contract only.	A contract for research in any elective area of Art History.
ARH	6798	Seminar In Art History	4	VP	ART		Var. Specialized topics in art history.
ARH	6865	Current Historiography: Renaissance	4	VP	ART		This course explores current perspectives on problems of Renaissance historiography.
ARH	6866	Current Historiography: Baroque-Rococo	4	VP	ART		This course explores current perspectives on problems of Baroque and Rococo historiography.
ARH	6867	Current Historiography: 19th Century	4	VP	ART		This course explores current perspectives on problems in the historiography of 19th Century Art.
ARH	6868	Current Historiography: 20th Century	4	VP	ART		Cultural and intellectual history of modern art
ARH	6891	Paris Art History	4	VP	ART	PR: At least 8 hours art history at the undergraduate level	This course will explore issues central to the history and criticism of art through the rich and visual culture that Paris offers. The goal of this course is to provide students with an experience of the cultural life of the city through an exploration of its major art collections, monuments, art collections and historical sites. Thematically-organized topic will include: art and national identity, patronage, orientalism, the borth of the avant-garde and the role of the museum in the evolution of modernism and modern art.
ART	5390C	Drawing	4	VP	ART	PR: ART 4320C, CI, DPR.	Advanced problems in various drawing techniques. Emphasis on individual creative expression. Repeatable.
ART	5422C	Lithography	4	VP	ART	PR: ART 4402C, CI, DPR.	Advanced problems in various lithographic techniques. Emphasis on individual creative expression. Repeatable.
ART	5448C	Intaglio	4	VP	ART	PR: CI. Registration by contract only.	Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media.
ART	5580C	Painting	4	VP	ART	PR: CI. Registration by contract only.	Research in painting
ART	5740C	Sculpture	4	VP	ART	PR: ART 2701C, DPR.	Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.
ART	5790C	Ceramics	4	VP	ART	PR: ART 2750C, DPR.	Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.
ART	5910	Research	1-4	VP	ART	PR: CI, DPR. Registration by contract only.	

						Repeatable.	
ART	5936	Studio Techniques: Selected Projects	2	VP	ART	PR: DPR.	Concentration in specialized media or processes. Repeatable.
ART	6391C	Drawing	4	VP	ART	PR: CI. Registration by contract only.	Advanced graduate research in drawing.
ART	6423C	Lithography	4	VP	ART	PR: CI. Registration by contract only.	Advanced graduate research in lithography.
ART	6449C	Intaglio	4	VP	ART	PR: CI. Registration by contract only.	Advanced graduate research in intaglio process.
ART	6581C	Painting	4	VP	ART	PR: CI. Registration by contract only.	Advanced graduate research in painting.
ART	6688	Electronic Media	4	VP	ART	PR: GS, CI, proof of proficiency in media.	Advanced projects in the exploration of the issues and practices involved in the creation of experimental computer art at the graduate level. Emphasis on individual creative expression. May be repeated.
ART	6791C	Ceramics	4	VP	ART	PR: CI. Registration by contract only.	Advanced graduate research in ceramics.
ART	6792C	Sculpture	4	VP	ART		Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.
ART	6811	Paris Art Studio	3	VP	ART	PR: Dept Approval Required	This course will explore the experience of modern life in the city as a source for art making. Projects will encourage students to encounter the dense and varied space and time of Paris toward a better understanding of the part that this city has played in the shaping of modern and post modern sensibilities. We will draw upon a range of avant-garde strategies that have imagined and conceptualized Paris by movement through city spaces and close observation of the ordinary and extraordinary aspects of everyday life.
ART	6816	MFA Professional Practices	2	VP	ART		MFA students will analyze their experiences and explore options available to visual artists after completion of their degree. Restricted to majors; not repeatable for credit.
ART	6895	Graduate Seminar I	3	VP	ART		This seminar will expand students understanding of the complexities of contemporary art. Students will develop an awareness of current critical theories through readings, writings and discussions. Restricted to majors and is non-repeatable.
ART	6896	Graduate Seminar II	3	VP	ART	PR: Graduate Seminar I.	This course facilitates a critical awareness of the self-reflexive nature of artistic vision within a larger cultural context including the relevance of one's work in relationship to contemporary art theory. Restricted to majors and is non-repeatable.
ART	6897	Critical Writing Seminar	3	VP	ART	PR: Departmental Permission, Majors Only.	Significant texts of the 20th Century and contemporary criticism introduce multiple lenses through which art is encountered, inviting self identification within a broad range of engaged positions.

							This forms the core of the MFA Research Project Proposal.
ART	6907	Independent Study	1-19	VP	ART	PR: CI. Registration by contract only. Achieved candidacy. S/U.	Independent study in which student must have a contract with an instructor.
ART	6911	Directed Research	1-19	VP	ART	PR: CI. Registration by contract only. Achieved candidacy.	
ART	6937	Graduate Instruction Methods	1-4	VP	ART	S/U. CI. Registration by contract only.	Special course to be used primarily for the training of graduate teaching assistants.
ART	6940	Selected Topics In Art	1-4	VP	ART		Variable credit depending upon the scope and magnitude of the work agreed to by the student and the responsible member of the faculty.
ART	6956	MFA Research Project	2-19	VP	ART	PR: CI.	Development/Finalization of MFA Research Project, including the planning and realization of an exhibition and a written document articulating ideas, processes, and sources related to the project. Usually taken during last year.
ART	6971	Thesis: Master's	2-19	VP	ART	PR: CI, S/U. Registration by contract only.	
AST	5506	Introduction to Celestial Mechanics	3	AS	AST	PR: MAC 2313 or MAC 2283 and some knowledge of differential equations, or CI.	The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.
AST	5932	Selected Topics in Astronomy	1-5	AS	AST	PR: Senior or advanced junior standing or CI.	Intensive coverage of special topics to suit needs of advanced students.
BCC	7114	Emergent and Urgent Care Clerkship	var	ME	MSG		Students participate in patients with emergent and urgent medical presentations and assist in the development of a differential diagnosis and preliminary diagnostic and therapeutic plans.
BCC	7134	Maternal and Newborn Health	var	ME	MSG		Students participate in maternal care and newborn care.
BCC	7144	Integrated Inernal Medicine - Pediatrics	var	ME	MSG		This clerkship introduces students to basic principles and practices of hospital-based internal medicine and pediatrics. When possible, it integrates interdisciplinary principles of internal medicine and pediatric disease management.
BCC	7154	Neuropsychiatry Clerkship	var	ME	MSG		The Neuropsychiatry Clerkship is 4 weeks consultation liaison service, 4 weeks inpatient psychiatry, and 2 weeks outpatient neurology.
BCC	7164	Surgical Care Clerkship	var	ME	MSG		The Surgical Care clerkship focuses on the development of the fundamental principles in the surgical care of patients.
BCC	7184	Primary Care and Special Care Populations Clerkship	var	ME	MSG		The Primary Care and Special Care Populations Clerkship introduces students to the prinicples of primary care medicine (Internal Medicine, Family Medicine, and Pediatrics)in the ambulatory setting.
BCC	8116	Skin and Bones Medicine Clerkship	var	ME	MSG		The Skin and Bones Medicine clerkship is 4 weeks in duration dealing with the content areas of musculoskeletal and dermatology.
BCC	8117	Interdisciplinary	v	ME	MSG		This is a four-week block in which

		Oncology	ar				all students will be expected to learn the fundamental principles of oncology and the multidisciplinary approach to the prevention, diagnosis, treatment, and rehabilitation of cancer patients.
BCH	5045	Biochemistry Core Course	3	AS	CHM	PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing.	A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.
BCH	5105	Biochemistry Laboratory Rotations	1-3	AS	CHM		A course in which first year graduate students rotate through selected professor's laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.
BCH	6070	Biotechnology and Bioethics	3	ME	MSG		Provides students a basic understanding of what biotechnology is and how it is employed throughout the world. Students are to learn the ethical and legal issues facing this technology, and how biotechnology is regulated. Course is not repeatable.
BCH	6135C	Methods in Molecular Biology	4	ME	MSG		An introduction to modern molecular biological techniques and instrumentation. Lec. Lab.
BCH	6411	Biomedical Genomics and Genetics	4	ME	MSG	PR: GMS 6001 or GMS 6200C or CC or CI.	An overview of Biomedical Genomics & Genetics and current and potential applications in biology & medicine, including identification of gene defects and the use of genetic tools for diagnosis and treatment of disease.
BCH	6506	Advances in Enzymology	3	ME	MSG		A discussion of the theory and mechanism of enzymological reactions with emphasis on enzymological techniques. Offered every other year.
BCH	6627	Metabolic and Genetic Basis of Human Diseases	3	ME	MSG	PR: GMS 6200C.	The course will deal with the genetic, molecular, and biochemical basis of human diseases.
BCH	6746	Proteomics and Structural Biology	3	ME	MSG	PR: GMS 6200C or CC.	The theory and application of modern physical biochemical techniques.
BCH	6806	Biochemical Endocrinology	2	ME	MSG		A study of the biochemical mechanisms of polypeptide, thyroid, and steroid hormones, including sites of action. Offered every other year.
BCH	6888	Bioinformatics	3	ME	MSG		An introduction to computer software applications for research in Biochemistry and Molecular Biology. Emphasis on database searching and submission, data analysis and graphical presentation, DNA and protein sequence analysis and molecular modeling. Lec./Pro.
BCH	6889	Bioinformatics II	3	ME	MSG	PR: BCH 6888.	Bioinformatics II focuses on four aspects: genome analysis; software suites; homology modeling and DNA micro arrays;

							all of which have become essential tools in modern day analyses of both genome organization and protein structure-function relationships.
BCH	6935	Scientific Writing and Ethics	2	AS	CHM		
BCH	6942	Bioinformatics Internship I	2	ME	MSG	PR: BCH 6888.	This course focuses on applications of bioinformatics and computational biology principles in a practical environment necessary for an “in-depth” understanding of how the methodologies of bioinformatics can be applied to solve bioscience problems.
BCH	6943	Bioinformatics Internship II	2	ME	MSG	PR: BCH 6888.	This course focuses on applications of bioinformatics and computational biology principles in a practical environment necessary for an “in-depth” understanding of how the methodologies of bioinformatics can be applied to solve bioscience problems.
BME	5040	Pharmaceutical Engineering	2	EN	ECH	PR: Senior or graduate standing in engineering or CI.	Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.
BME	5320	Theory and Design of Bioprocesses	3	EN	ECH	PR: Senior standing in engineering or CI. Open to majors and non-majors with CI.	Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.
BME	5748	Selected Topics in Biomedical Engineering	1-3	EN	ECH		Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.
BME	5910	Directed Research in Bioengineering	1-3	EN	ECH	PR: CI.	Directed research in an area of biomedical engineering or engineering biotechnology.
BME	5937	Selected Topics in Biomedical Engineering	1-3	EN	ECH	PR: Senior or GS standing in Engineering or CI. Open to non-engineering students with CI.	Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with CI. Repeatable as subjects vary.
BME	6000	Biomedical Engineering	3	EN	ECH	PR: Graduate standing in engineering or CI.	Biomedical engineering analysis, including biomedical thermodynamics, biomechanics, biomaterials, medical imaging, biomedical instrumentation, tissue/cellular engineering,clinical engineering, prosthetic/medical devices, and regulatory issues.
BME	6107	Biomaterials I: Material Properties	3	EN	EGX		Properties and characterization of biomaterials, including ceramics, glasses, metals, natural materials, polymers, and composites. Applications include dental, orthopedic, soft tissue, and tissue scaffolds. Design and sterilization

							issues.
BME	6108	Biomaterials II Biocompatibility	3	EN	ECH	PR: Graduate standing in engineering or CI.	Biocompatibility issues of biomaterials, including inflammation, wound healing, foreign body response, toxicity, blood coagulation, tumorigenesis, infection, and related issues including testing. Degradation of materials in the biological environment.
BME	6235	Tissue Biomechanics	3	EN	ECH	PR: Graduate standing in engineering or CI.	Biomechanical properties of hard and soft tissues, including measurement procedures, influences on properties (gender, aging, physical conditioning, disease processes), tissue repair, and implant devices. Open to nonmajors with CI.
BME	6340	Biomedical Fluids and Cardiovascular Engineering	3	EN	ECH	PR: Graduate standing in engineering or CI.	Roles of mechanics & transport phenomena in pathology, diagnosis & treatment of cardiovascular disease. Intro to methods for assessing hemodynamics & cardiovascular health -Doppler echocardiography & MRI. Cardiovascular devices. Open to nonmajors.
BME	6420	Human Sensory Processes	3	EN	ECH	PR: Graduate standing in engineering or CI.	Biological and engineering aspects of the human sensory system (vision, hearing, taste, smell, touch, pain, etc.), including normal and impaired performance, engineering models, and prosthetic device design considerations.
BME	6430	Cardiovascular Systems for Engineers	3	EN	ECH	PR: Graduate standing in engineering or CI.	Cardiovascular basic and medical science from an engineering viewpoint. Topics explored: cardiovascular anatomy and physiology, physical and mathematical aspects of current therapies and diagnostics, imaging, hemodynamics, and cardiovascular disease.
BME	6634	Biotransport Phenomena	3	EN	ECH	PR: Graduate standing in engineering or CI.	Analysis and applications of biofluids, including nonnewtonian and particulate systems, bioheat transfer, including energy balances, and biomass transport, including mass balances and membrane processes. Open to nonmajors with CI.
BME	6911	Research Methods in Biomechanics	1-3	EN	ECH	PR: Graduate standing in engineering or CI.	Research methods in biomechanics, including materials testing, gait analysis, modeling techniques, and related issues. Open to majors and nonmajors. May be repeated for credit as the subject varies up to six total credits.
BME	6920	Seminar in Biomedical Engineering	1	EN	ECH	PR: Graduate standing in biomedical engineering or CI.	Seminar in biomedical engineering. Speakers will address current research topics in biomedical engineering, including biomechanics, cardivascular engineering, sensors, tissue engineering, and drug delivery. Can be repeated up to 3 total credits.

BME	6931	Selected Topics in Biomedical Engineering	1-3	EN	ECH	PR: Graduate standing in engineering or CI.	Selected topics in biomedical engineering, including focused topics in biomechanics, biomedical imaging, biomaterials, biomedical instrumentation and sensors, tissue and cellular engineering, and clinical engineering & health systems.
BMS	5005	Professions of Medicine: Foundations of Doctoring	1-19	ME	MSG		This three-week course placed at the beginning of the medical school curriculum will introduce the students to principles that will be used through the entire medical school education and beyond. Basic scientists and clinicians present information in an integrated approach. Topical areas include: use of information resources (library/computer), the medical article, intro to evidence based medicine, effective study techniques, intro to the physical exam, cultural diversity, ethics and professionalism, and state of the art presentation. The course will use both large and small group learning techniques and students will demonstrate achievement of knowledge.
BMS	5015	Clinical Diagnosis and Reasoning	var.	ME	MSG		This course aims to provide the student with the opportunity to "think like a physician." It will provide the venue to integrate clin diagnosis/reasoning strategies with complementary aspects of clin problem solving/phys diagnosis/evidence based medicine.
BMS	5190	Anatomy by Diagnostic Testing	1-20	ME	MSG		Describing normal human anatomy in three dimensions (frontal, coronal, and axial), using contrast medical and imaging modalities available for diagnostic radiologists. Course will be oriented to organ systems describing anatomy of the organ and its vasculature and topographic anatomy. It will include didactic lecture series and a standing display of images for self-studies. Plain radiographs, contrast studies of gastrointestinal and urinary tract, arteriograms, computed tomograms, magnetic resonance, and ultrasound scans of body organs will be displayed.
BMS	6100C	Gross Anatomy	5-10	ME	MSG	PR: Anatomy Students only.	
BMS	6110	Microscopic Anatomy	5-10	ME	MSG	PR: Anatomy Students only.	
BMS	6206	Molecular Medicine	1-20	ME	MSG		Emphasis of biochemistry, cell biology, and genetic that have immediate relevance for clinical medicine while also providing a fundamental foundation of understanding that will permit life-long learning. The pathogenesis of disease will be understood

							based on a practical understanding gained from the students address in this course.
BMS	6300	Principles of Immunology and Infectious Diseases	var.	ME	MSG		This course consists of lectures, laboratory, and small-group conferences. Principles of infectious disease are presented with emphasis on both the characteristics of the causative agent and the host response to colonization activities.
BMS	7303	Clinical Microbiology and Immunology	var.	ME	MSG		This course will focus on an experiential approach to issues in clinical microbiology and immunology of relevance to the practicing physician.
BMS	7304	Review of Immune and Infectious Diseases	var.	ME	MSG		This course will focus on a review of the major immune and infectious diseases that may be encountered by the general physician.
BOT	5185C	Marine Botany	4	AS	BIO	PR: BOT 3373C, PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: CHM 2211.	A field course in marine plants with emphasis on ecology and functional morphology. Fieldwork will stress the ecological aspects of plants in the subtropical marine environment of Florida. Fieldwork required. Lecture and Laboratory.
BOT	5725C	Evolution of Flowering Plants	3	AS	BIO	PR: BOT 3373C and BOT 4152C or CI.	A study of the evolution and phylogeny of the Angiosperms; the origin and nature of early angiosperms, "primitive" angiosperms today; evolutionary processes leading to the origin of genera, families and orders, trends of specialization in the angiosperms; phylogenetic analysis, cladistics, traditional approaches, new approaches; readings from the current and historical literature. Lec/Lab.
BSC	5931	Selected Topics in Biology	1-4	AS	BIO	PR: CI.	
BSC	6436	Introduction to Biotechnology	3	ME	MSG	PR: BS in Biochemistry, Biology or Chemistry of CI.	The course focuses on biotechnology, the integration of biology and technology and its applications in genomics, forensics, agriculture, engineering and medicine that have resulted in new products and services and solved biological/biomedical problems.
BSC	6907	Independent Study	1-19	AS	BIO	PR: CI. S/U.	Independent study in which student must have a contract with an instructor.
BSC	6910	Directed Research	1-19	AS	BIO	PR: CI. S/U.	
BSC	6930	Lectures in Contemporary Biology	1	AS	BIO	PR: CC. S/U only.	This Biology lecture series includes a diversity of contemporary topics including: molecular regulatory mechanics, evolutionary genetics, organismal physiology and community ecology.
BSC	6931	Development and Physiology Seminar	1	AS	BIO		A critical examination and discussion of current literature of physiology and development of living organism, including cells.

BSC	6932	Selected Topics in Biology	1-4	AS	BIO	PR: CI.	
BSC	6935	Graduate Seminar in Biology	1	AS	BIO	PR: CI. S/U.	
BSC	6936	Scientific Grant Writing	3	AS	BIO		Course provides instruction on becoming a successful grant writer as well as understanding the grant proposal writing and review process. Responsibilities of the principle investigator for compliance, fiscal matters, and scientific management of the funded grant will also be covered with guest lecturers from the Division of Sponsored Research.
BSC	6945	Graduate Instruction Methods	1-3	AS	BIO	PR: CI. S/U only.	Special course to be used primarily for the training of teaching assistants.
BSC	6971	Thesis: Master's	2-19	AS	BIO	PR: CI.	Thesis: Master's
BSC	7910	Directed Research	1-19	AS	BIO	PR: CI. Ph.D. level. S/U.	
BSC	7912	Directed Research	1-19	AS	BIO	PR: CI. Ph.D. level. S/U.	
BSC	7936	Doctoral Seminar	1	AS	BIO	PR: 90 semester hours post B.S.	Graduating Ph.D. students will present a formal seminar based upon their dissertation to the Department of Biology and the public. Restricted to majors.
BSC	7980	Dissertation: Doctoral	2-19	AS	BIO	PR: CI.	
BTE	5171	Curriculum Construction: Business Education	3	ED	EDV		Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.
BTE	6944	Practicum: Business Education	3-6	ED	EDV		A problem-centered field study in the local community, school, government, office, social agency, business, or industry.
BUL	5332	Law and the Accountant	3	BA	GBA	PR: BUL 3320 or CI.	A comprehensive study of commercial law as it affects the practice of accounting.
CAP	5400	Digital Image Processing	3	EN	ESB	PR: EEL 4851C or GS.	Image formation, sources of image degradation, image enhancement techniques, edge detection operators and threshold selection, low-level processing algorithms for vision, image data compression.
CAP	5625	Introduction to Artificial Intelligence	3	EN	ESB	PR: EEL 4851C or GS.	Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.
CAP	5682	Expert And Intelligent Systems	3	EN	ESB	PR: EEL 4851C or GS.	Basic concepts, techniques and tools for the design and implementation of expert and intelligent systems. Knowledge representation, inference methods, knowledge acquisition methods, and some advanced concepts. Tools to facilitate construction of expert and intelligent systems.

CAP	5771	Data Mining	3	EN	ESB	PR: Undergraduate Statistics.	An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.
CAP	6100	Human Computer Interface	3	EN	ESB	PR: CI.	Introduction to the design and evaluation of the interface between a computer based application and a human user.
CAP	6415	Computer Vision	3	EN	ESB	PR: CAP 5400.	Techniques for description and recognition of objects, use of stereo, texture, and motion information for scene segmentation and description, consistent labeling and matching, use of knowledge and planning in computer vision.
CAP	6455	Advanced Robotic Systems	3	EN	ESB	PR: Control Systems, Intro to Robotics, MatLab	Unmanned ground, aerial and underwater robots. Modeling, kinematics dynamics and control; navigation and collision avoidance; sensor fusion; vision-based navigation; sensor fault detection and isolation; system architectures and robot swarms.
CAP	6615	Neural Networks	3	EN	ESB	PR: CAP 5600.	Defines models of artificial neural networks, compares these models, and investigates the relationship of neural network learning to other symbolic learning methods.
CAP	6638	Geometric/Statistical Pattern Recognition Technology	3	EN	ESB	PR: CI.	
CAP	6672	Robot Intelligence and Computer Vision	3	EN	ESB	PR: COP 2400 or equiv.	An introduction to robotic systems with emphasis on the computational aspects of robot control. Topics for discussion: overview of the robotics field, analysis of robot arm kinematics and coordinate transformation, real-time computer control of robot arms, and computer vision. Practical experience in programming robotic systems will be included.
CAP	6736	Geometric Modeling	3	EN	ESB	PR: Data Structures, Programming in a higher level language.	The course deals with the representation, design, analysis, processing and visualization of shape information used in a variety of fields of science and engineering.
CCE	5035	Construction Management & Planning	3	EN	EGX	PR: EGN 3613C.	Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.
CCJ	6050	Pro Seminar in Criminology	1	AS	CJP	PR: CI. Should be taken during the first semester.	Provides a forum for presentation and discussion of research ideas by faculty, students, and guests,

							with a view toward the development of thesis topics.
CCJ	6285	Law, Crime and Justice	4	AS	CJP	PR: CI	An exposition of historical and contemporary legal principles, procedures, and issues as reflected in Constitutional provision, statutes, and case law.
CCJ	6406	Theory, Practice, and Research in Law Enforcement	3	AS	CJP	PR: CI	This issue-oriented course explores the relationships among theory, practice, and research as these are reflected in the problems and challenges that confront law enforcement.
CCJ	6605	Theoretical Approaches to Criminal Behavior	4	AS	CJP	PR: CI.	An introduction to, and comparison of, major historical and contemporary theories that seek to explain criminal behavior.
CCJ	6705	Research Methods in Criminology	4	AS	CJP	PR: CCJ 6920, CI	Introduction to the basic methods of criminological research; overviews philosophy of science, research ethics, research design issues such as sampling and measurement, and methods of data collection, including survey, experimental, and evaluation research.
CCJ	6706	Quantitative Analysis in Criminology I	4	AS	CJP	PR: CCJ 6705, CI.	Introduction to data management utilizing computer statistical packages and elementary statistical techniques used in criminological research: descriptive and inferential statistics, group comparisons, measures of association, linear regression.
CCJ	6707	Quantitative Analysis in Criminology II	4	AS	CJP	PR: CCJ 6706, CI.	Intermediate-level data analysis and statistical techniques applied to problems in criminology. Emphasis on multivariate techniques, including multiple regression, path analysis, and nonlinear models.
CCJ	6708	Quantitative Analysis in Criminology III	3	AS	CJP	PR: CCJ 6707 or equivalent.	This course familiarizes students with advanced multivariate linear and nonlinear statistical procedures appropriate for analyzing criminological data.
CCJ	6709	Qualitative Methods in Criminology	3	AS	CJP	PR: CCJ 6705.	An in-depth analysis and discussion of several qualitative perspectives and corresponding methodological designs as they pertain to criminological research and inquiry.
CCJ	6716	Evaluation Research in Criminology	3	AS	CJP	PR: CCJ 6705.	This course provides basic and advanced methods of evaluation research in a real world environment, paying particular attention to the idiosyncracies of working with and within the Criminal Justice System. Grant preparation, survey techniques, and research design will be covered along with the policies, pressures, and peculiarities associated with evaluating agencies.
CCJ	6905	Directed Independent Study	1-12	AS	CJP	Majors only.	Independent study in which student must have contract with instructor.

CCJ	6910	Directed Research	1-19	AS	CJP	PR: CI. S/U.	
CCJ	6930	Current Issues in Corrections	3	AS	CJP	PR: CI. Repeatable with different subject matter.	This course is designed to review and analyze the major issues and dilemmas that confront corrections today, including overcrowding, inmate rights, privatization, control of gangs, control of inmantes, and the availability or programs and services. Attention will also focus on the strategies and/or controversies associated with these issues.
CCJ	6931	Seminar in Criminological Theory	3	AS	CJP	PR: CCJ 6605. Repeatable with different subject matter.	This course is designed to provide an in-depth analysis of specific theoretical issues in criminology.
CCJ	6935	Topics in Criminology and Criminal Justice	3	AS	CJP	PR: CI.	Analysis and discussion of topics of major concern in criminology and criminal justice that are not covered in regular courses.
CCJ	6936	Current Issues in Law Enforcement	3	AS	CJP		This course will focus on some of the most significant issues facing law enforcement agencies today. Some topics included will be: police use of deadly force; review of police conduct; police unionization; police corruption; media relations; civil liability; and community/problem-oriented policing.
CCJ	6971	Thesis: Master's	2-19	AS	CJP	PR: CI.	
CCJ	6974	Area Project	1-12	AS	CJP	PR: GS in the Department and CI. Required of students not using the thesis option. Maximum of 3 hours toward the Master's degree. S/U.	
CCJ	7057	Ethics in Criminology	4	AS	CJP		This course is designed to review and analyze the various ethical issues and dilemmas that confront the criminal justice system and the discipline of criminology. Because of the unique characteristics of the people and problems dealt with in criminology, the ethical issues in the area often are novel when compared to those in other fields.
CCJ	7910	Advanced Research	1-12	AS	CJP	Doctoral Students only.	Course is designed to give students an opportunity to conduct independent research under the supervision of a faculty member. May be repeated.
CCJ	7980	Doctoral Dissertation	2-12	AS	CJP		
CEG	5115	Foundation Engineering	3	EN	EGX	PR: CEG 4011 or CI.	Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.
CEG	5205	Laboratory Testing for Geotechnical Engineers	3	EN	EGX	PR: CEG 4011 or CI.	Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures

							and application of results to design.
CEG	6015	Advanced Geotechnical Topics	3	EN	EGX	PR: CEG 4011, CEG 4011L, CEG 5205.	Advanced concepts of shear strength and consolidation of soils; slope stability, nonlinear and secondary consolidation, numerical methods.
CEG	6065	Soil Dynamics	3	EN	EGX	PR: CEG 4011, CEG 4011L, CEG 4012.	Fundamentals of vibrations, wave propagation, design of foundations, retaining walls and slopes to resist vibrations, liquefaction of soils.
CEG	6415	Seepage and Subsurface Drainage	3	EN	EGX	CR: CEG 4011 or CI.	Design of underdrains, wells, soil filters, fabric filters, and dewatering systems with special emphasis on case studies.
CES	5105C	Advanced Mechanics of Materials I	3	EN	EGX	PR: EGN 3331, MAP 2302	Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beams, theory of elasticity, criteria of failure, beams on elastic foundation.
CES	5209	Structural Dynamics	3	EN	EGX	PR: CES 3102, EGN 3321.	Behavior of structural components and systems when subjected to periodic dynamic loads.
CES	5715C	Prestressed Concrete	3	EN	EGX	PR: CI, majors only.	Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of pressures applications.
CES	6103	Experimental Stress Analysis	3	EN	EGX	PR: EGN 3331, EGN 3373	This course will provide the tools of research necessary to design experiments and/or instrumentation schemes for directed studies. It is intended for structural and geotechnical engineering graduates conducting master's or doctoral research.
CES	6107C	Advanced Mechanics Of Materials II	3	EN	EGX	PR: CES 5105C.	Continuation of CES 5105C. Structural stability of beam-columns and frames, calculus of variations and energy methods, introduction to viscoelasticity and plasticity.
CES	6116	Finite Element Analysis II	3	EN	EGX	PR: CES 4141	Finite Element method for structural analysis. Weighted residual and variational methods. Analysis of frame, plane stress/strain, axisymmetric, torsion, plate bending, shell and 3-dimensional elastic problems. Analysis of heat conduction, fluid flow, and electric and magnetic potential problems.
CES	6117	Finite Element Analysis III	3	EN	EGX	PR: CES 6116.	Nonlinear geometric and material finite element for formulation for trusses and frames. P-Delta and large deformation theories. Solution strategies for static and dynamic loads. Displacement and Flexibility approach for solution of problems. Mixed variational principles. Computational plasticity. Transient analysis of structures.
CES	6326	Design of Concrete Bridges	3	EN	EGX	PR: CES 4702, CES 5715C.	Bridge Classification, AASHTO loads and load combinations, load

							distribution, design of typical superstructures and substructures for concrete and prestressed bridges.
CES	6586	Design of Structures to Resist Natural Hazards	3	EN	EGX		Study of natural hazards (wind, earthquakes & ocean waves) and their interaction with structures. Use of exact and approximate methods of analysis, computer modeling, and design provisions for structures to resist the aforementioned loads.
CES	6609	Advanced Steel Design	3	EN	EGX	PR: CES 4605.	Advanced topics in steel design. Topics covered include connection design, torsion of wide range sections, and optimum structural design.
CES	6706	Advanced Concrete Design	3	EN	EGX	PR: CES 4702, majors only.	Advanced topics in concrete designs. Topics include torsion two way floor systems, composite construction, slabs on grade, and deep beams.
CES	6716	Design of Continuous Post-Tensioned Structures	3	EN	EGX		Methods of analysis and design of post-tensioned statically indeterminate structures. Emphasis will be on the design of two-way slabs for floor systems using the equivalent frame method and load balancing.
CGN	5933	Special Topics in Civil Engineering and Mechanics	1-5	EN	EGX	PR: CI.	New technical topics of interest to civil engineering students.
CGN	6720	Electrochemical Diagnostic Techniques	3	EN	EGX	PR: EGN 3365 or equivalent basic Materials Science course.	Fundamentals and applications of electrochemical diagnostic techniques. Focus on electrochemical impedance spectroscopy to evaluate reaction rates in corrosion and interfacial phenomena of materials. Includes research project.
CGN	6906	Independent Study	1-19	EN	EGX	PR: CI. S/U.	Independent study in which students must have a contract with an instructor.
CGN	6915	Directed Research	1-19	EN	EGX	PR: GS, CI. S/U.	Course consists of directed research on topics selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.
CGN	6933	Special Topics in Civil and Environmental Engineering	1-4	EN	EGX	PR: CI	Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.
CGN	6941	Graduate Instruction Methods	1-5	EN	EGX	PR: GS, CC. Majors only. S/U.	Special course to be used primarily for the training of graduate teaching assistants.
CGN	6971	Thesis: Master's	2-19	EN	EGX	PR: GS, CI. Majors only.	Thesis/Specialist project hours.
CGN	7915	Directed Research	1-19	EN	EGX	PR: GS, CI. Ph.D. level. S/U.	Course consists of directed research on topics selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.
CGN	7980	Dissertation Doctoral	2-19	EN	EGX	PR: GS, CI, Admission to Candidacy, majors only. S/U.	Research and writing of a dissertation.

CGS	5765	Introduction to Unix and C	3	EN	ESB	No credit for Department of Computer Science & Engineering majors.	Unix operating system. Internet resources. Netscape, WWW and HTML. ANSI C language, syntax. Arrays and pointers. Iterations and recursions. Header files and macros. C libraries. Structuring data. File I/O.
CGS	6210	Computer Hardware Systems for Education	3	ED	EDK	PR: Computer literacy	This course focuses on the development of an understanding of microcomputer hardware that allows individuals to teach as well as make decisions concerning purchase, repair, and appropriate use. Topics include: basic concepts of digital electronics, the operation of a digital computer system, major categories of computer peripherals, historical development of electronic computers, and selection and maintenance of computers in an educational setting.
CHM	5225	Intermediate Organic Chemistry I	3	AS	CHM	PR: CHM 2211, CHM 2211L, or equivalent or CI or GS.	This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.
CHM	5226	Intermediate Organic Chemistry II	3	AS	CHM	PR: CHM 5225 or CI.	An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.
CHM	5425	Applications in Physical Chemistry	3	AS	CHM	PR: CHM 4412 and CHM 4410 or CI or GS.	Applications of chemical theory to chemical systems.
CHM	5452	Polymer Chemistry	3	AS	CHM	PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing.	Fundamentals of polymer synthesis, structure, properties, and characterization.
CHM	5621	Principles of Inorganic Chemistry	3	AS	CHM	PR: CHM 4411, CHM 4610 or CI or GS.	Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course. Lec.
CHM	5931	Selected Topics in Chemistry	1-3	AS	CHM	PR: CI.	The following courses are representative ofthose that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.
CHM	6150	Advanced Analytical Chemistry	3	AS	CHM	PR: CI	A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec.
CHM	6250	Advanced Organic Chemistry I: Synthesis	3	AS	CHM	PR: CHM 5225 or CI.	Detailed consideration of modern synthetic methods. Lec.
CHM	6260	Advanced Organic Chemistry II: Physical-Organic	3	AS	CHM	PR: CHM 5225 or CI.	Organic reaction mechanisms emphasizing the interpretation of experimental data. Lec.
CHM	6280	Advanced Organic Chemistry III: Natural Products	3	AS	CHM	PR: CHM 5225 or CI.	A study of any of several of the following topics: terpenes, steroids, vitamins, alkaloids, prophyrins, purine, and antibiotics.
CHM	6460	Statistical	3	AS	CHM	PR: CI.	Application of statistical mechanics

		Thermodynamics					to the thermodynamics; relation of molecular structure to thermodynamic properties. Lec.
CHM	6480	Quantum Chemistry	3	AS	CHM	PR: CI.	Introduction to elementary quantum mechanism. Atomic structure and spectra. Lec.
CHM	6650	Structural Inorganic Chemistry	3	AS	CHM	PR: CHM 5621 or CI.	Modern theories of bonding and structure of inorganic compounds, including coordination theory, stereo-chemistry, solution equilibria, kinetics, mechanisms of reactions, and use of physical and chemical methods. Lec.
CHM	6907	Independent Study	1-19	AS	CHM	S/U.	Independent study in which students must have a contract with an instructor.
CHM	6935	Graduate Seminars in Chemistry	1	AS	CHM	PR: Admission to graduate program in Chemistry. S/U.	Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar.
CHM	6936	Chemistry Colloquium	1	AS	CHM	PR: Admission to graduate program in Chemistry. S/U.	Frequent (usually weekly) small-group analysis of current developments.
CHM	6938	Selected Topics in Chemistry	1-3	AS	CHM	PR: CI.	Representative titles taught include: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics, Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc.
CHM	6946	Graduate Instruction Methods	1-4	AS	CHM	S/U.	Special course for the training of teaching assistants.
CHM	6971	Thesis: Master's	2-19	AS	CHM	PR: GR. M.L. S/U.	
CHM	6973	Directed Research	1-19	AS	CHM	PR: GR. M.L. S/U.	
CHM	7820	Directed Research	1-19	AS	CHM	PR: GR. Ph.D. level. S/U.	
CHM	7980	Dissertation: Doctoral	2-19	AS	CHM	PR: Admission to Candidacy. S/U.	
CIS	6900	Independent Study	1-19	EN	ESB	PR: GS, majors only. S/U.	Independent study in which students must have a contract with an instructor. Requires completed contract prior to enrollment.
CIS	6910	Computer Science Graduate Project	3	EN	ESB	PR: CI, majors only. S/U.	Computer science engineering project that may be taken by graduate students in place of Master's thesis. Requires completed contract prior to enrollment.
CIS	6930	Special Topics	3	EN	ESB	PR: CI.	
CIS	6940	Graduate Instruction Methods	1-4	EN	ESB	Majors only. S/U.	Special course to train graduate teaching assistants.
CIS	6971	Thesis: Master's	2-19	EN	ESB	PR: GS, majors only. S/U.	
CIS	7910	Directed Research	1-19	EN	ESB	PR: GR. Ph.D. level, majors only. S/U.	Requires completed contract prior to enrollment.
CIS	7980	Dissertation: Doctoral	2-	EN	ESB	PR: Admission to	

			1 9			Doctoral Candidacy.	
CJC	6020	Theory, Practice, and Research in Corrections	3	AS	CJP	PR: CI	Examination of the interrelationships between theory and practice in corrections, as these are affected by empirical research and systematic program evaluation.
CLP	6166	Psychopathology	3	AS	PSY	PR: Admission to graduate program in Psychology or CI	Exploration of current approaches to the understanding of pathological behavior and implications for theories of personality. A survey of treatment methods is included.
CLP	6438	Psychological Assessment: Theory and Research	1-4	AS	PSY	PR: CI.	Courses cover theory, research, and applications of psychological assessment in areas, such as interviewing, intellectual and cognitive functioning, neuropsycho-diagnostics, and personality testing.
CLP	6937	Topics in Clinical Psychology	1-3	AS	PSY	PR: CI.	Courses on topics, such as humanistic psychology, community psychology, and clinical neuropsychology.
CLP	7188	Clinical Psychology Interventions	1-4	AS	PSY	PR: CI.	Study of the theoretical, empirical, and applied foundations of the major systems of therapeutic intervention.
CLP	7379	Graduate Seminar in Clinical-Community Psychology	1-3	AS	PSY	PR: CI.	Seminars on topics, such as psychopathology, community psychology, clinical issues, personality, and developmental psychology.
CNT	6215	Computer Networks	3	EN	ESB	PR: Graduate standing in the department.	Design and analysis of data communication networks with an emphasis on the Internet and its protocols. Key topics include protocol models, HTTP, TCP, IP, local area networks, routing, flow control, multimedia networking, and performance evaluation.
COM	5930	Topics in Communication Studies	3	AS	SPE		Topical issues in communication.
COM	6001	Theories and Histories of Communication	3	AS	SPE	Required of all M.A. and Ph.D. students.	An introduction to the history and theory of communication as a discipline: its relationship to the arts and sciences, and a survey of the historical development of the field, emphasizing current issues in theory, research, and practice.
COM	6017	Gender in the Workplace	3	AS	SPE	PR: Graduate Standing.	This course focuses on the workplace as a site of gendered communication practices. A variety of work settings will be analyzed in terms of how they construct gender identities, reinforce public-private distinctions and maintain traditional career models.
COM	6025	Health Communication	3	AS	SPE	PR: GS.	Application of communication theory and research to the health context including provider-patient communication, health information campaigns, and health beliefs and behavior. Special attention to the value issues in health communication.
COM	6045	Communicating	3	AS	SPE	PR: Graduate	Effective leadership today focuses

		Leadership				Standing.	less on control and more on the strategic use of communication to build relationships and guide behavior. This course examines the various ways leaders can communicate more effectively in contemporary organizations.
COM	6121	Organizational Communication	3	AS	SPE		A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.
COM	6248	Historical Perspectives on Communication	3	AS	SPE	PR: Graduate Standing.	Explores prominent figures and theoretical movements in area of Communication (Interpersonal or Organizational Communication, Cultural Studies, Rhetorical Studies, or Performance Studies). [Repeatable for credit as topics vary.]
COM	6306	Action Research	3	AS	SPE	PR: Graduate Standing.	Action research is rooted in engagement, involving collaboration with community or organizational partners who will be affected by the research. Through hands-on projects we learn principles of action research and explore communication and ethical issues.
COM	6313	Interpreting Communication Research	3	AS	SPE	PR: Graduate Standing.	This course is designed to give students tools to help them interpret the mainstream research literature in communication and to judge research on a quality continuum. No assumptions are made about student understanding of quantitative research methods.
COM	6345	Contemporary Cultural Studies	3	AS	SPE	PR: GS.	Examines theoretical issues and interpretive approaches for exploring questions of knowledge, identity, experience, meaning and value in modern culture through the study of communication.
COM	6400	Communication Theory	3	AS	SPE	PR: COM 6001.	An examination of communication theory through selected reading in the works of major theorists past and present.
COM	6418	Communication and Systems Practice	3	AS	SPE	PR: Graduate Standing.	Systems theories offer possibilities for understanding interconnections and emergence, identities and environments, and stability and change, with communication processes being central. We explore social systems principles by linking theory and praxis.
COM	6605	Media Studies	3	AS	SPE	PR: GS.	Study of the impact of mass and mediated forms of communication on individuals, groups, societies, and cultures. Several theoretical and critical perspectives are considered.
COM	6724	Communication Training in Organizations	3	AS	SPE	PR: Graduate Standing.	Provides holistic understanding of how communication training is developed and conducted in organizations. Students learn to assess communication training needs, design/deliver effective communication training programs,

							and evaluate their effectiveness.
COM	7325	Seminar in Communication Research Methods	3	AS	SPE	Required of all Ph.D. students. Also required of all M.A. students wishing to pursue the thesis option.	Examines the research practices and methodologies of communication as a discipline, including bibliographical resources, research designs, research techniques, and forms of scholarly presentation.
COM	7933	Seminar in Communication Studies	3	AS	SPE	PR: GS.	Variable topics course.
COP	6611	Operating Systems	3	EN	ESB	PR: CC, majors only	Operating systems functions and design, resource management, protection systems, process communication, and deadlocks.
COP	6621	Programming Languages and Translation	3	EN	ESB	PR: CI, majors only	Grammars and languages, symbols, strings, syntax, parsing, the design of a compiler, storage organization and symbol tables, translator writing systems.
COT	6405	Introduction to the Theory of Algorithms	3	EN	ESB	PR: COT 3100, COT 4400, or equiv. GS or CI.	Analysis techniques for algorithms. Characterizing algorithms in terms of recurrence relations, solutions of recurrence relations, upper and lower bounds. Graph problems, parallel, algorithms, NP completeness and approximation algorithms, with relationship to practical problems.
CPO	5934	Selected Topics in Comparative Politics	3	AS	POL	Sr./GS.	Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.
CPO	6036	Politics of Developing Areas	3	AS	POL	Sr./GS	Advanced study of ideologies, politics, political institutions, and the socio-economic conditions that influence them in developing nations.
CPO	6091	Seminar in Comparative Politics	3	AS	POL	GS.	Extensive examination of the major theories and approaches used in the study of Comparative Politics. Seminar format.
CRW	6025	Special Topics in Creative Writing	3	AS	ENG		This course will offer coverage of current topics in creative writing based on student demand and instructor interest. Topics offered may include memoir, novel writing, screenwriting, and editing and publishing.
CRW	6130	Fiction Writing	3	AS	ENG		A study of the process of fiction writing and the artistic demands associated with its forms, from microfiction to the novel.
CRW	6164	The Craft of Fiction	3	AS	ENG	PR: Dept. Approval Required.	A study in the forms and technique of fiction writing. Students will examine how novels and stories are constructed, analyze craft (plotting, characterization, point of view) and the relationship of form and craft, and study the variety of approaches to storytelling (realism, magic realism, minimalism, and metafiction).
CRW	6236	Nonfiction Writing	3	AS	ENG		An exploration of the different types of nonfiction writing, such as memoir, travel, nature, commentary, book review, essay, and biography.
CRW	6331	Poetry Writing	3	AS	ENG		A study of the process of poetry

							writing and the demands associated with its form, both free verse and metrical.
CRW	6352	The Craft of Poetry	3	AS	ENG	PR: Dept. Approval Required.	An intensive examination of established schools of poetic writing: their themes, imagery, and approach to subject matter. Students also will write and submit original poetry for private and group constructive evaluation.
CST	6934	Special Topics in Graduate School: Research Practicum	3	AS	IDS	PR: Graduate Standing.	Variable titles offered on topics of special interest pertaining to research practices.
CST	6935	Special Topics in Graduate School: Professional Development	3	AS	IDS	PR: Graduate Standing.	Variable titles offered on topics of special interest pertaining to professional development.
CWR	6235	Free Surface Flow	3	EN	EGX	PR: CWR 4202 or CI, majors only.	Fundamental and applied aspects of free surface flow, including river hydraulics, canal flow, and open channel design.
CWR	6239	Waves and Beach Protection	3	EN	EGX	PR: CWR 6820, majors only.	A study of the fundamentals of shoreline dynamics including distribution of wave energy, motion of beach sand, stable configurations and protective measures.
CWR	6305	Urban Hydrology	3	EN	EGX	PR: CI, majors only.	A study of the quantity and quality problems and solution techniques associated with urban runoff.
CWR	6533	Water Quality Modeling	3	EN	EGX		This course will develop the fundamental principals and concepts of water quality modeling and apply water quality models in a variety of contexts. The mathematical representations of environmental transport and transformation processes will be elucidated. Models of different complexity will be applied to a variety of environmental contexts.
CWR	6534	Coastal and Estuary Modeling	3	EN	EGX	PR: CI, majors only.	Digital modeling of coastal and estuary systems, currents tide heights, sediment transport, erosion, data collection, temperature distribution, source and sinks. Special emphasis on Florida regions.
CWR	6535	Hydrologic Models	3	EN	EGX	PR: CI, majors only.	A study of the theoretical principles of hydrologic modeling and an examination of various numerical hydrologic models available. Students will be required to develop and apply computer models.
CWR	6538	Advanced Hydrologic Models	3	EN	EGX	PR: CWR 6535 and GLY 6739.	To present the theoretical and applied concepts of advanced hydrologic modeling and especially integrated surface water/ground water modeling and to examine various numerical hydrologic models used in engineering practice.
CWR	6820	Coastal Waves And Structures	3	EN	EGX	PR: CI, majors only.	Fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.
DEP	6058	Developmental Psychology	3	AS	PSY	PR: Admission to graduate program in	Basic survey of research and theory in human developmental

						Psychology or CI.	processes.
DEP	6136	Language Development	3	AS	PSY	PR: Admission to graduate program in Psychology or Communication Sciences and Disorders or CI.	Explores the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development, with emphasis on recent research.
ECH	5320	Chemical Process Engineering I	4	EN	ECH	PR: Bachelors degree in science, math, or engineering.	The course presents the principles of mass balances, classical thermodynamics, phase equilibria, energy balances, and psychrometrics. The student will learn by doing many case studies. Computer software will be used to obtain solutions to many problems.
ECH	5321	Chemical Process Engineering II	4	EN	ECH	PR: Bachelors degree in science, math, or engineering.	Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer. Not available for chemical engineering students.
ECH	5322	Chemical Process Engineering III	4	EN	ECH	PR: Bachelors degree in science, math, or engineering.	Basic concepts of fluid phase equilibrium, chemical equilibrium, separation processes, and chemical reactors. Not available for chemical engineering students.
ECH	5324	Automatic Process Control II	3	EN	ECH	PR: ECH 4323C or CI, majors only / 2 hrs lec., 3 hrs. lab/week.	The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feed forward, selective, override, and multi-variable control techniques are discussed in detail and shown how to utilize to design control systems, z-transforms and discrete controllers including PID, Dahlin and deadline compensation.
ECH	5327	Chemical Process Control	4	EN	ECH	PR: Bachelors degree in science, math, or engineering.	Basic concepts of feedback control, process dynamics, process controllers (PID)including tuning, control loop stability, cascade, ratio, selective, override, feedforward, and multivariable control. Not available for chemical engineering students.
ECH	5740	Theory and Design of Bioprocesses	3	EN	ECH		Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.
ECH	5747C	Selected Topics in Chemical Engineering Biotechnology	1-3	EN	ECH	PR: Senior or GS standing in engineering or CI. Open to majors and non-majors with CI.	Selected topics in engineering in biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations.
ECH	5748	Selected Topics in Biomedical Engineering	1-3	EN	ECH		Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.
ECH	5820	Product Development	2	EN	ECH	PR: Senior or GS in Engineering or CI.	Introduction to the development of consumer products, including the

							history of innovation, creativity development, the product development environment, and a detailed examination of several product areas.
ECH	5930	Special Topics III	1-4	EN	ECH	PR: CI.	
ECH	5931	Special Topics IV	1-4	EN	ECH	PR: CI.	
ECH	6105	Advanced Thermodynamics I	3	EN	ECH	PR: CC, Majors only.	Selected topics in classical and irreversible thermodynamics.
ECH	6107	Selected Topics in Advanced Thermodynamics	3	EN	ECH	PR: GS or CI.	Advanced selected topics in Ch.E. Thermodynamics such as: molecular and statistical thermo, adv. phase and chemical equilibria, etc.
ECH	6230	Advanced Mass Transfer	3	EN	ECH	PR: ECH 5285 or equiv.	Advanced topics in mass transfer, including the mathematical description and solution of homogeneous and heterogeneous reacting systems, unsteady state, simultaneous heat and/or fluid transfer, particulate processes, and interfacial transport.
ECH	6285	Advanced Transport Phenomena	3	EN	ECH		Formulation of flux equations for fluid, heat & mass transport. Development & resolution of unsteady state and multidimensional models in various co-ordinate systems. Analytical & numerical techniques to solve the resulting equations will be presented.
ECH	6412	Processes Analysis and Modeling	3	EN	ECH	PR: CI.	Computer-controlled data acquisition and analysis aimed at development and evaluation of empirical and physical models of chemical and mechanical engineering processes.
ECH	6417	Bioseparations	3	EN	ECH	PR: Graduate standing in engineering or CI.	Design and analysis of bioseparation processes, including crystallization, membrane separations, chromatography, liquid-liquid extraction, electrophoresis, and emerging technologies. Open to non-majors with CI.
ECH	6515	Reacting Systems	3	EN	ECH	PR: ECH 4415C or CI.	Economic factors in the design of chemical reactors. Simulation of complex reacting systems.
ECH	6616	Computer-Aided Process Engineering I	3	EN	ECH	PR: ECH 4615.	Plant and process design with emphasis on computer-aided design.
ECH	6749	Biomaterials and Biocompatibility	3	EN	ECH	PR: CI	Physical and chemical properties of biomaterials, failure mechanisms, performance in vivo, interfacial phenomena and biocompatibility, including host response to implants. Also will discuss the regulatory aspects of biomaterials.
ECH	6840	Mathematical Methods for Chemical Engineering	3	EN	ECH		Mathematical modeling of chemical engineering systems. Numerical and analytical solution methods for algebraic equations, ordinary differential equations, coupled differential and algebraic equations and partial differential equations.

ECH	6906	Directed Research	1-19	EN	ECH	PR: GR. ML. S/U.	
ECH	6907	Independent Study - Variable Title	1-19	EN	ECH	PR: GR. S/U.	Independent study in which students must have a contract with an instructor.
ECH	6930	Special Problems I	1-3	EN	ECH	PR: CC.	
ECH	6931	Special Problems II	1-3	EN	ECH	PR: CC.	
ECH	6939	Graduate Research Methods	1-4	EN	ECH	PR: CC. S/U.	Special course to be used for training of graduate research assistants.
ECH	6971	Thesis: Master's	2-19	EN	ECH	PR: CC	
ECH	7915	Directed Research	1-19	EN	ECH	GR Ph.D. level. Rpt. S/U. PR: CC	
ECH	7980	Dissertation: Doctoral	2-19	EN	ECH	PR: Admission to Candidacy	
ECO	6115	Microeconomics I	3	BA	ECN	PR: ECO 3101 or ECO 6114, ECO 4401 or CC.	Microeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium.
ECO	6120	Economic Policy Analysis	3	BA	ECN	PR: ECO 3101 or ECO 6114 or CC.	Conditions for efficient resource allocation in a market economy; how inefficiency arises in markets and government; ways to reestablish efficiency; social welfare and equity. Introduction to benefit-cost analysis.
ECO	6205	Macroeconomic Theory and Policy	3	BA	ECN	PR: For Master of Accountancy students only.	Determination of income, employment, wages, prices, and interest rates, contemporary policy issues, long-run economic growth.
ECO	6206	Aggregate Economics	3	BA	ECN	PR: ECO 3203 or ECO 6204	Advanced macroeconomic analysis of income, employment, prices, interest rates and economic growth rates.
ECO	6305	History of Economic Thought	3	BA	ECN	PR: ECO 3101 or ECO 6114 or CI	Currents of modern economic thought in the last hundred years.
ECO	6405	Mathematical Economics	3	BA	ECN	PR: ECO 3101 or ECO 6114 or CC.	Develops the fundamental tools of mathematics needed for graduate study in economics: set theory, linear algebra, equilibrium analysis, calculus, and unconstrained and constrained optimization. Also includes a review of special functions.
ECO	6424	Econometrics I	3	BA	ECN	PR: ECO 3203 or ECO 6204, QMB 3200, QMB 6305, or CI.	Theory and use of multiple regression to estimate relations in causal models, use of standard software packages.
ECO	6425	Econometrics II	3	BA	ECN	PR: ECO 6424	Advanced econometric techniques; model building, estimation and forecasting; design and execution of research projects.
ECO	6505	Public Finance	3	BA	ECN	PR: ECO 3101 or ECO 6114	Effects of tax and expenditure policies on resource allocation and income distribution.
ECO	6525	Public Sector Economics	3	BA	ECN	PR: ECO 3101 or ECO 6114.	The economic role of government in the allocation of resources in the presence of market failure.
ECO	6705	International	3	BA	ECN	PR: ECO 6114 and	Analysis of international economic

		Economic Issues				ECO 6204 or equivalent.	relations and institutions. Analysis of the effects of changing economic conditions and policy on the climate for international business and investment.
ECO	6706	International Trade: Theory and Policy	3	BA	ECN	PR: ECO 3101 or ECO 6114.	Causes of international trade, international trade policy, economic integration, trade problems of developing countries, role of multinational corporations in world trade.
ECO	6708	Global Economic Environment of Business	3	BA	MBA		Determination of prices, employment, and output in domestic and international settings.
ECO	6716	International Monetary Economics	3	BA	ECN	PR: ECO 3203 or ECO 6204.	International macroeconomic relationships, foreign exchange market, the international monetary system, balance of payments adjustments, macroeconomic policy in the open economy.
ECO	6906	Independent Study	1-19	BA	ECN	PR: CC. S/U.	Independent study. Student must have a contract with an instructor.
ECO	6917	Directed Research	1-19	BA	ECN	PR: GR, ML, CC. S/U.	
ECO	6936	Selected Topics in Economics	1-4	BA	ECN	PR: GS and CI.	The course content will depend on student demand and instructor's interest.
ECO	7116	Microeconomics II	3	BA	ECN	PR: ECO 6115.	Topics in advanced microeconomic theory, including general equilibrium, welfare economics, intertemporal choice, uncertainty, information, and game theory.
ECO	7426	Econometrics III	3	BA	ECN	PR: ECO 6425, ECO 6405 or CC.	The aim of this course is to provide students several important advanced econometrics techniques and how they can be used in empirical research and practical applications. Emphasis will be on cross-sectional and panel data models.
ECO	7427	Econometrics IV	3	BA	ECN	PR: ECO 7426 or CC.	Advanced econometric techniques with emphasis on applying the proper method to actual data and to situations where various techniques are appropriate.
ECO	7980	Dissertation	2-19	BA	ECN	PR: Advancement to Candidacy	Dissertation Research
ECP	6205	Labor Economics I	3	BA	ECN	PR: ECO 3101, ECO 6114, or ECO 6115	Labor demand and supply, unemployment, discrimination in labor markets, labor force statistics.
ECP	6305	Environmental Economics and Policy	3	BA	ECN	PR: ECO 2023 or ECO 6114.	An economic analysis of business's and the government's approach to managing environmental issues. The focus of the course is on the analysis of case studies of specific environmental issues using fundamental efficiency analysis.
ECP	6405	Industrial Organization	3	BA	ECN	PR: ECO 3101 or ECO 6114	Structure of industry and its effect on economic efficiency.
ECP	6406	Seminar in Industrial Organization	3	BA	ECN		
ECP	6415	Issues in Regulation	3	BA	ECN	PR: ECO 3101 or	Issues concerning rationale,

		and Antitrust				ECP 3703 or GEB 6114.	structure and performance of government regulation and antitrust policy.
ECP	6456	Law and Economics	3	BA	ECN	PR: ECO 3101 or ECO 6114	Impact of Tort, Criminal, Property, and Contract Law on the allocation of resources.
ECP	6535	Analysis of Health Care Issues	3	BA	ECN	PR: ECO 6114 or equivalent.	Evolution of medical care industries and government healthcare policies. International comparisons. Measures of cost benefit and of cost-effectiveness.
ECP	6536	Economics of Health Care I	3	BA	ECN	PR: ECO 3101 or ECO 6114.	Analysis of the supply and demand for health care, health insurance and the pharmaceutical industry.
ECP	6614	Urban Economics	3	BA	ECN	PR: ECO 3101 or ECO 6114.	Economics of growth and development of urban areas, interurban location patterns.
ECP	6624	Regional Economics	3	BA	ECN	PR: ECO 3101 or ECO 6114	Geographical allocation of resources within and among regions, location of households and firms, interregional migration of labor and capital, regional growth and development, regional policy.
ECP	6702	Managerial Economics	2	BA	MBA		This course presents the microeconomic theory of price determination in an exchange economy with special emphasis on the behavior of firms in various market structures.
ECP	7207	Labor Economics II	3	BA	ECN	PR: ECP 6205.	Advanced study of labor economics including analysis of the wage structure, labor unions, labor mobility, and unemployment.
ECP	7537	Economics of Health Care II	3	BA	ECN	PR: ECO 6536 or CC.	Advanced analysis of health economics with emphasis on recent empirical studies of health care.
EDA	6061	Principles of Educational Administration	3	ED	EDB		Educational administration as a profession. Consideration of organization, control, and support of the educational system.
EDA	6106	Administrative Analysis and Change	3	ED	EDB	PR: EDA 6061.	Change and change strategies in formal and informal organizations are foci. Students will develop change strategies and will apply them to selected situations.
EDA	6192	Educational Leadership	3	ED	EDB	PR: EDA 6061.	Administration course that addresses change, influences, and planning systems. Also examines personnel functions for administrators.
EDA	6195	Policy Development	3	ED	EDB	PR: EDA 6061.	Contemporary research on diffusion of innovations, political power in policy decision making. Role of establishing educational policies.
EDA	6232	School Law	3	ED	EDB	PR: GS, EDA 6061, or CI.	Basic essentials of School Law. A review of court decisions affecting American education with emphasis on Florida State statutes.
EDA	6242	School Finance	3	ED	EDB	PR: GS, EDA 6061, or CI.	Financial support of education by local, state, federal sources, with emphasis on Florida; introduction to educational budgeting.
EDA	6262	Planning Educational Facilities	3	ED	EDB	PR: GS, EDA 6061, or CI.	Problems in the planning, construction, and use of educational facilities. Visitation and/or evaluation of selected

							schools.
EDA	6503	The Principalship	3	ED	EDB	PR: EDA 6061.	Organization and administration of the school. Emphasis on the competencies necessary for leadership and management by the principal as the administrator and instructional leader.
EDA	6910	Directed Research	1-19	ED	EDB	PR: GS or ML, EDA 6061. S/U.	
EDA	6931	Case Studies in School Administration	3	ED	EDB	PR: GS, EDA 6061 or CI.	Helps prospective administrators understand administrative problems, propose feasible solutions, and evaluate courses of action. Develops skill in decision making.
EDA	6945	Administration Practicum	3-8	ED	EDB	PR: GS, EDA 6061 and completion of a significant amount of the student's program.	Field experiences in school systems for identifying and analyzing educational problems and their solutions. Application of concepts developed in the student's program.
EDA	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDB	S/U.	
EDA	7069	Ethics and Educational Leadership	3	ED	EDB		The purpose of this course is to read about, examine, discuss,and critique competing theories of ethics and educational leadership. Students will construct critical cases & statements of responsibility in terms of ethics applied to leadership.
EDA	7222	Administration Of School Personnel Policies And Practices	3	ED	EDB	PR: GS, EDA 6061 or CI.	Administration of school personnel policies and practices relating to professional staff, supporting staff, and students.
EDA	7233	Legal Dimensions Of School Administration	3	ED	EDB	PR: GS, EDA 6232, CI.	Historical perspective in law and education with in-depth reviews of case law showing the evolution of courts as educational policy makers.
EDA	7247	Advanced School Finance	3	ED	EDB	PR: GS, EDA 6242 or CI.	Advanced treatment of school finance. Development, implementation, and evaluation of financial resource and allocation systems. Emphasis is on intradistrict allocation.
EDA	7980	Dissertation	2-30	ED	EDB	PR: Admitted to Candidacy.	
EDE	6205	School Curriculum: Elementary	3	ED	EDC	PR: EDG 4620, EDG 6627.	Organization, curriculum, and instruction of the elementary school with emphasis on the nature of the students served. Open to all education graduate students.
EDE	6225	Problems in Curriculum and Instruction: Elementary	1-3	ED	EDC	PR: EDG 4620, EDG 6627.	For teachers, supervisors, and administrators. Curricular and instructional problems of the elementary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.
EDE	6326	Planning and Organizing for Instruction in the Elementary School	3	ED	EDE		Introduction to the theories and practices that support children's learning. Includes accessing resources that support teaching,

							developing lessons, designing appropriate assessments, and the elements that influence instructional decision-making.
EDE	6458	Reflecting on Instructional Decision Making	1-3	ED	EDE	CR: For first hour: EDE 6946. For second hour EDG 6947.	Develops the students' abilities to reflect upon teaching practice and evaluate instructional decisions on K-6 student learning. The first hour is taken with the practicum. The second hour is to be taken in conjunction with final internship.
EDE	6506	Classroom Management, School Safety, Ethics and Law	3	ED	EDE		Examines the legal issues affecting classroom/school management, school safety and professional ethics. Explores research and knowledge of best practices and a variety of teaching and management strategies for a diverse elementary classroom setting.
EDE	6906	Independent Study: Elementary/Early Childhood Education	1-6	ED	EDE	S/U.	Independent study in which students must have a contract.
EDE	6946	Practicum in the Elementary School	3	ED	EDE	PR: RED 6514, FLE 5345, and 9 additional credits in program courses. CR: EDE 6458-I.	This intensive practicum experience is designed to complement foundational MAT course work and is completed during the second block of the MAT program. This course is restricted to majors and is not repeatable. S/U only..
EDE	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDE	S/U, MA/EdS Candidates only.	
EDE	7910	Directed Research in Elementary Education	1-19	ED	EDE	PR: Advanced graduate standing.	Independent student-faculty research course.
EDE	7980	Dissertation	2-30	ED	EDE	PR: Admitted to Candidacy.	
EDF	5607	Trends in the Social-Political Foundations of Schooling in the US	3	ED	EDF		Current debates re: purpose and practice of formal schooling in the U.S. with historical and sociological perspectives. Satisfies social foundations requirements for Fla. Teacher certification and ESL competency in knowledge of intercultural issues in education.
EDF	6120	Child Development	4	ED	EDF	PR: EDF 6211 or DPR.	Educational, emotional, hereditary, intellectual, social, and physical factors influencing child growth and development.
EDF	6165	Group Processes for Educational Personnel	1-3	ED	EDF		Application of group process research to the needs of professional educators and training officers.
EDF	6166	Consulting Skills for Staff Development	1-3	ED	EDF	PR: DPR.	Knowledge and skill training for consulting with organizational clients to solve educational problems and design learning environments or programs.
EDF	6211	Psychological Foundations of Education	3	ED	EDF		Selected topics in psychology of human development and learning, related to schools and educational settings.
EDF	6213	Biological Bases for Learning Behavior	3	ED	EDF	PR: One course in Educational Psychology.	Human biological development and its influence upon learning and behavior.

EDF	6215	Learning Principles Applied to Instruction	4	ED	EDF	PR: CI.	Learning principles and their application to classroom instruction.
EDF	6217	Behavior Theory and Classroom Learning	4	ED	EDF	PR: EDF 6215 or DPR.	Theory and practical applications of behavior modification; introduction to experimental methods for behavior modification; operant methods in behavior and development; analysis and field work.
EDF	6281	Workshop and Conference Design	3	ED	EDF		Knowledge and skills to design, conduct and/or administer, and evaluate both workshops and conferences.
EDF	6284	Problems in Instructional Design for Computers	3	ED	EDK	PR: Computer literacy.	This course focuses on the systematic design of instructional courseware, including analysis, media selection, and evaluation. Topics include instructional strategies, screen design, response analysis, feedback and interactivity.
EDF	6288	Instructional Design I	3	ED	EDF	PR: EDF 6215 or DPR.	Instructional design models/theories and their systematic application to instructional goals.
EDF	6354	Human Development and Personality Theories	4	ED	EDF		A study of psycho-social and cognitive development throughout a person's life span with an analysis of the major personality theories.
EDF	6407	Statistical Analysis For Educational Research I	4	ED	EDQ		Theory and application of statistical procedures to problems in education: (1) descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.
EDF	6432	Foundations Of Measurement	3	ED	EDQ		Basic measurement concepts, role of measurement in education, construction of teacher-made tests and other classroom assessments, interpretation of standardized tests, and fundamental descriptive statistics for use in test interpretation.
EDF	6446	Development and Validation of Tests in Education	3	ED	EDQ	PR: EDF 6432, EDF 6407. DPR.	Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks.
EDF	6481	Foundations of Educational Research	3	ED	EDQ	PR: EDF 6432, or DPR.	Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies.
EDF	6492	Applied Educational Program Evaluation	3	ED	EDQ	PR: EDF 6432, EDF 6446. DPR.	Design, development, implementation, interpretation, and communication of both formative and summative educational program evaluation studies.
EDF	6517	Historical Foundations of American Education	4	ED	EDF		History of the origins and development of American education, events, and movements that have shaped school policies

							and practices, and their relationship to contemporary developments.
EDF	6531	History of Childhood, Disability, and Deviance	3	ED	EDF	PR: Department approval required.	Historical development of the idea and experience of modern childhood. Social construction of age categories and age related institutions such as schools. Issues of diversity including concepts of deviance, ability and disability in historical perspective. Social policies and inequality by social class, race/ethnicity/culture and gender.
EDF	6544	Philosophical Foundations of American Education	3	ED	EDF		Major philosophies of education relevant to an understanding of contemporary educational issues.
EDF	6606	Socio-Economic Foundations of American Education	4	ED	EDF		Socio-economic factors as they relate to the work of professional educators and the role of public education in American society.
EDF	6705	Gender and the Educational Process	3	ED	EDF		Course is designed to enable public school personnel, teachers, counselors, administrators, and other professionals to identify those aspects of public education that perpetuate sex role stereotyping. Emphasis will be placed on how the law and formal and informal affirmative action activities can be employed to correct sexism in schools.
EDF	6736	Education, Communication, and Change	3	ED	EDF	PR: CI.	Developments in communication as a process of social change as it affects students, teachers, and traditional school arrangements.
EDF	6765	Schools and the Future	4	ED	EDF		Estimates of future demands upon schools; critique of current paradigms, techniques, and literature.
EDF	6810	Comparative Education	3	ED	EDF		Comparison of contemporary educational systems of selected countries with that of the United States.
EDF	6812	Seminar in Comparative Education	4	ED	EDF		Policies and practices in education in selected countries.
EDF	6883	Issues in Multicultural Education	4	ED	EDF	PR: DPR.	Lecture/discussion course, open to both majors and non-majors; address both fundamental concepts and timely issues in multicultural education and working with culturally diverse students.
EDF	6885	Internship in Community Agency Counseling	6 or 3	ED	EDG	PR: All required MHS courses.	Field experience involving one semester of full-time participation or two semesters of part-time participation in the counseling and related activities of a public or private agency providing mental health services to the community.
EDF	6906	Independent Study: Educational Foundations	1-6	ED	EDF	S/U.	Independent study in which students must have a contract with an instructor.
EDF	6935	Wellness Programming Seminar	2	ED	EDF	PR: CI.	This course familiarizes students with the array of extant programs to facilitate wellness and prevent problems that often affect college students. Through review and

							critique of such programs, participants will be able to design and administer wellness programs in their professional roles.
EDF	6938	Selected Topics	1-4	ED	EDF	PR: CC	Exploration and demonstration of knowledge in an area of special interest to the student and/or in an area for which the student needs to demonstrate a higher level of competence. Designed to fit the needs of each student.
EDF	6941	Practicum in Measurement, Evaluation, and Research	1-4	ED	EDQ	PR: Pursuing the M. Ed. Program in Measurement And Evaluation or Graduate Certificate in Research Methods and CI.	Practicum provides individuals in the M.Ed.in Measurement and Evaluation opportunities to apply research and evaluation skills in applied settings (e.g., local school districts, Centers within the University). May be repeated up to 8 hours.
EDF	6944	Field Experience	1-4	ED	EDF	PR: CI.	Demonstrate skills in the practice of the student's specialty. Objectives will be defined by the needs of the individual student.
EDF	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDQ	S/U.	
EDF	7143	Measurement of Cognitive Functioning in Childhood and Adolescence	4	ED	EDF	PR: A course in measurement.	Investigation of theories and measurement of cognitive functioning in childhood and adolescence.
EDF	7145	Cognitive Issues in Instruction	4	ED	EDF	PR: Admission to doctoral program and EDF 6215.	Selected cognitive models of intelligence, memory, problem solving, thinking, and motivation applied to instructional strategies.
EDF	7167	Experiential Learning: Theory and Methods	3	ED	EDF		Theory and methods of experiential learning in both formal and organizational contexts.
EDF	7227	Topics in Behavior Analysis and Automated Instruction	1-12	ED	EDF	PR: EDF 6215 or EDF 6217 or Advanced Graduate Standing, CI	Seminar in experimental analysis of functional relationships between behavior and relevant environmental variables. Interpretation of complex human behavior and formulation of procedures which expedite instruction in educational procedures for computer delivery.
EDF	7239	Supervised Experience in College Teaching	2	ED	EDF		A seminar to increase knowledge and competencies in college instruction. Students must have advanced graduate standing, be currently teaching a college level course, willing to be observed, and able to discuss ongoing classroom practices and problems. Open to all doctoral level Education majors, other doctoral students if space available. S/U optional.
EDF	7408	Statistical Analysis For Educational Research II	4	ED	EDQ	PR: EDF 6407 or equiv. or DPR.	Theory and application of statistical procedures to problems in education: (1) ANOVA-factorial; ANCOVA; (2) multiple correlation and regression -- a specific technique and a general approach to data analysis. Coordinated use of computer included.
EDF	7410	Design Of Systematic Studies In Education	4	ED	EDQ	PR: EDF 6407, EDF 7408 or equiv. or DPR.	Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and

							role of sampling in systematic studies.
EDF	7412	Application of Structural Equation Modeling in Education	3	ED	EDQ	PR: EDF 7408 or equivalent.	Application of structural equation modeling in educational research, including path models, confirmatory factor analysis, structural modeling with latent variables, and latent growth curve models.
EDF	7437	Advanced Educational Measurement I	3	ED	EDQ	PR: EDF 6432 or equiv.; EDF 6407 or equiv.	Logical, empirical, and statistical models of measurement processes. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education.
EDF	7438	Advanced Educational Measurement II	4	ED	EDQ	PR: EDF 7437 or DPR.	Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Validation theory, and construction and validation of instruments for measurements in education.
EDF	7439	Foundations of Item Response Theory	3	ED	EDQ	PR: EDF 6432.	Basic foundation underlying Item Response Theory (IRT) as well as most common applications in educational and psychological measurement, in terms of the theoretical basis, practical aspects, and specific applications.
EDF	7469	Introduction to Computer-Based Testing	3	ED	EDQ	PR: EDF 6432.	This course should serve as an introduction to the field of computer-based testing. The material covered will be applicable to most operational educational, psychological, credentialing and licensure assessments, for research and measurement.
EDF	7477	Qualitative Research in Education Part I	4	ED	EDQ	PR: Advanced GS or DPR.	First of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research in educational settings.
EDF	7478	Qualitative Research in Education Part II	4	ED	EDQ	PR: Advanced GS and EDF 7477.	Second of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research.
EDF	7484	Statistical Analysis For Educational Research III	4	ED	EDQ	PR: EDF 7408 or DPR.	Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminate Analysis, Multivariate Analysis of Variance, Factor Analysis, and Path Analysis.
EDF	7485	Theory and Practice of Education Evaluation	3	ED	EDQ	PR: EDF 7493. DPR.	Comparative analysis of contemporary evaluation approaches; theory and scientific basis of evaluation; social and political impact of evaluation on educational decision making; and the design, implementation and reporting of evaluation studies.
EDF	7488	Problems in Educational Data	2	ED	EDQ	PR: EDF 7408 or DPR.	Strategies and techniques for data processing and quantitative

		Analysis					analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation.
EDF	7493	Systems Approaches for Program Planning, Evaluation and Development	4	ED	EDQ	PR: Advanced GS or DPR.	Systems theory applied to problems in program planning, evaluation, and development. Analysis of evaluation models and policy analysis. Application of Networking, PERT, and Modeling procedures to selected problems in education. Emphasis on decision oriented research.
EDF	7530	History of Higher Education in the United States	3	ED	EDF	PR: EDF 6517, its equivalent, or permission of the instructor.	Historical overview of American higher education from Colonial period to present. History of undergraduate curriculum, changing purpose of higher ed, and growth in hierarchical categorization of higher ed as college became more accessible to students.
EDF	7586	Classics in Educational Research	4	ED	EDF	PR: GS; EDF 6517, EDF 6544, EDF 6606, or CI.	Examination of the context, methods, and significance of selected research studies in education.
EDF	7649	Analysis of Educational Issues	3	ED	EDF		Socio-cultural, historical, and axiological examination of selected issues in public education.
EDF	7655	Organization Development in Educational Institutions	4	ED	EDF		Application of social and behavioral science theory to the organizational and developmental problems of schools and school systems.
EDF	7682	Education in Metropolitan Areas	4	ED	EDF	PR: EDF 6517, EDF 6544, EDF 6606, or DPR.	Modern public education and its relationship to national development.
EDF	7910	Directed Research in Measurement and Evaluation	1-19	ED	EDQ	PR: CI.	Independent student-faculty research course.
EDF	7934	Seminar in Social Foundations of Education	4	ED	EDF	PR: GS; EDF 6517, EDF 6544, or EDF 6606, or DPR.	Significant research on socio-cultural issues in Education.
EDF	7940	Practicum In Educational Planning, Evaluation, And Development	1-8	ED	EDQ	PR: EDF 7408, EDF 7493. S/U.	Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity.
EDF	7980	Dissertation	2-30	ED	EDQ	PR: Admission to Candidacy.	
EDG	6285	School Curriculum Improvement	3	ED	EDC	PR: Workshop for the improvement of the curriculum of an elementary or secondary school, CC. Open only to teachers in service.	Open only to teachers in service. Complete faculty participation required.
EDG	6329	Creative Drama in a Developmental Context	3	VP	EDD		Theories and methods of applying three major approaches of creative drama to the use of improvised drama from kindergarten through secondary school. The course will involve students in applying the drama process as a teaching method which can be applied by classroom teachers of elementary, middle and high school.
EDG	6344	Project T.E.A.C.H.	3	ED	EDR	PR: CC.	Topics and techniques in verbal

		(Teacher Effectiveness and Classroom Handling)					communication skills, questioning, paraphrasing, positive support skills, problem solving, counseling techniques, non-confrontation strategies, group dynamics, and discipline decision making.
EDG	6415	Project P.R.I.D.E. (Professional Refinements In Developing Effectiveness)	3	ED	EDE		Topics in academic questioning techniques, nonverbal communication, motivating changes in behavior, managing critical incidents in the classroom, and analyzing typical classroom practices for positive or negative impact.
EDG	6417	Teaching Through Learning Channels	3	ED	EDE		Focus on the area of teaching effectiveness in the cognitive domain and skill training on the identification and use of student learning channel strengths; analysis of curriculum based on learning channels to identify the skills necessary to complete learning tasks; the development of alternative strategies to meet the needs of all students.
EDG	6627	Foundations Of Curriculum And Instruction	3	ED	EDC	PR: EDG 4620.	Open to all graduate students. Introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels.
EDG	6906	Independent Study	1-19	ED	EDV	S/U.	Independent study in which students must have a contract with an instructor.
EDG	6931	Selected Topics in Education	1-4	ED	EDC	PR: DPR.	Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.
EDG	6935	Seminar in Curriculum Research	3	ED	EDE	PR: EDG 6481.	Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements.
EDG	6947	Internship	1-9	ED	EDC	PR: DPR. S/U only.	Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate.
EDG	6971	Thesis: Masters/Education Specialist	2-19	ED	EDC	S/U. Master's students only. Interdisciplinary Studies only.	
EDG	7357	Mentoring Theory and Leadership Practice	3	ED	EDH		This cross-disciplinary doctoral course is for students interested in the topic and process of mentoring in education. Students from inside and outside the College of Education are eligible.
EDG	7667	Analysis of Curriculum and Instruction	3	ED	EDC	PR: EDG 6627.	Various theoretical frameworks for analyzing curriculum and instruction. Emphasis on rational models of curriculum inquiry.
EDG	7692	Issues in Curriculum and Instruction	3	ED	EDC	PR: EDG 6627.	Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with

							these issues.
EDG	7910	Directed Research	1-19	ED	EDC	S/U only.	
EDG	7931	Selected Topics	1-4	ED	EDC	PR: DPR.	Selected topics in advanced Education.
EDG	7937	Graduate Seminar	1-4	ED	EDC	PR: CC.	Seminar in advanced Education.
EDG	7980	Dissertation	2-19	ED	EDC	PR: Admitted to Candidacy. S/U. Interdisciplinary Studies only.	
EDH	6051	Higher Education in America	3	ED	EDH		For current and prospective faculty, administrators, policy analysts, and staff seeking to learn about American higher education. The topics addressed include the history, recent developments, and projections for the future of various aspects of igher education, including its missions, purposes, students, faculty and staff, administration, finance, organization, governance, and role in American society.
EDH	6081	Junior College in American Higher Education	4	ED	EDH		Philosophical and cultural bases for definition of its role and contemporary issues, such as control, financing, and curricular patterns. Emphasis on the place and problems of the community junior college.
EDH	6406	Ethics and Higher Education	3	ED	EDH		The purpose of this course is to assist students in developing a detailed ethical framework that will guide their actions and decision-making as they serve in leadership and teaching positions in higher education. Areas of emphasis include (a) learning selected philosophies of ethics; (b) exploring student, faculty, and classroom ethical issues; (c) discussing administrator/board ethical issues; (d) examining the college or university as an ethical organization.
EDH	6906	Independent Study	1-19	ED	EDH		Independent study inm which students must have a contract with an instructor. Rpt. S/U.
EDH	6938	Seminar in College Teaching	3	ED	EDH		Implications of learning theory and student characteristics for teaching at the college level. Types of teaching procedures, innovation, evaluation, student freedom, and responsibility for learning.
EDH	6947	Intership in Higher Education	1-6	ED	EDH		This course provides higher education program graduate students with an extensive, semester-long, field experience in a two- or four-year college, under the dual guidance of a campus-based supervisor and a USF higher education program faculty member. The internship experience must relate to the student's goals in the doctoral program. Students should be at or near the end of their graduate

							program.
EDH	7225	Curriculum Development In Higher Education	3	ED	EDH	PR: GS or CI.	Emphasis on curriculum perspectives, procedures, and practices in higher education; principles of curriculum and instruction in higher education; theory and practices in goal setting, curriculum planning, instructional improvement, and curriculum design.
EDH	7405	Policy and Legal Dimensions in Higher Education	3	ED	EDH		This course is a doctoral level course with primary focus on the interface of policy and law as they address the nature, process and product of community college and higher education in the United States and Florida. Constitutional, statutory and contract law is also discussed, as are critical legal and policy issues in higher education, including governance, academic freedom, student rights, discrimination, tort liability, contracts and collective bargaining.
EDH	7505	Higher Education Finance	3	ED	EDH	PR: GS or CI.	Emphasis on financial policies, planning, and budgeting; allocation; financial analysis and management, patterns of expenditure, sources of income. Relationships between educational objectives and resource allocations.
EDH	7632	Leadership in Higher Education	3	ED	EDH	PR: Previous graduate work at the Master's level.	This cross-disciplinary doctoral course is for students interested in the topic and process of mentoring in education. Students from inside and outside the College of Education are eligible.
EDH	7633	Governing Colleges and Universities	3	ED	EDH		Students in this course will examine and compare existing models of state and local college and university governance structures Demographic, social, legal, financial, and planning issues and forces that effect how colleges and universities are governed will also be explored. Policy analysis and research will be explored as it relates to governance in higher education.
EDH	7635	Organization And Administration Of Higher Education	3	ED	EDH	PR: GS or CI.	Examines the concepts about higher education organizations and administration, the behaviors of those organizations and administrators, and the relationships between concept and practice.
EDH	7636	Organizational Theory and Practices in Higher Education	3	ED	EDH		Explores theories and models of organizations and their applicability to colleges and universities and the work done in the influence of internal and external actors. Also examines many of the administrative practices and processes common in colleges and universities today.
EDH	7910	Directed Research	1-1	ED	EDH		This course provides higher education program graduate

			9				students with an opportunity for directed research, under the supervision of a higher education program faculty member.
EDH	7930	Higher Education Seminar	1	ED	EDH		Topics of general and special concern in higher education, restricted to advanced graduate students.
EDH	7935	Higher Education Capstone Seminar	3	ED	EDH		The course is designed to encourage students' integration and synthesis of theories, concepts and themes in previous coursework; to critique research in the field; and to provide some in-depth study of selected areas in higher education. Advanced Graduate Standing. Instructor approval required – majors only.
EDH	7980	Dissertation	2-30	ED	EDH	PR: Admitted to Candidacy.	
EDM	6235	School Curriculum: Middle	3	ED	EDC	PR: EDG 4620, EDG 6627.	Open to all education graduate students. Examines the organization, curriculum, and instruction of the middle school with special emphasis on the nature of the students served.
EDM	6256	Problems In Curriculum And Instruction: Middle School	1-3	ED	EDC	PR: EDG 4620, EDG 6627.	For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.
EDM	6622	Client Centered Middle Schools	3	ED	EDM	Majors Only.	Combination lecture/discussion/independent study course that examines in depth the current research on needs/characteristics of the early adolescent and its implications for both organization of the middle grade school and its delivery of curriculum and instruction.
EDM	6623	Responsive Middle School Programs	3	ED	EDM	PR: EDM 6622.	Combination lecture/discussion/individual study course that examines in depth the current research on both the interdisciplinary team/advisory concepts and how these organizational patterns can promote thinking skills and integration of subject matter throughout the curriculum.
EDM	6624	Effective Instruction for Middle Schools	3	ED	EDM	PR: EDM 6622 and EDM 6623.	Combination lecture/discussion/individual study course that examines in depth the current research on both alternative instructional strategies and assessment practices that are successful with middle level students.
EDM	6935	Middle School Issues Seminar	1-3	ED	EDM		Combines discussion/individual study seminar modeling the advisory concept in a university setting and examining the current research on a variety of important trends/issues affecting middle level education.
EDS	6050	Principles and	3	ED	EDB	PR: GS.	Role definitions of supervision,

		Practices of Educational Supervision					analysis of role conflict, needs assessments, supervising the planning of instruction, and observing the delivery of instruction.
EDS	6131	Clinical Supervision	3	ED	EDB	PR: GS, EDS 6050.	Trains administrators, supervisors, and peer teachers in observing and diagnosing teacher classroom performance, writing remedial plans, conducting post observation conferences, and evaluating performance.
EDS	6239	Problems In Supervision	3	ED	EDB	PR: GS, EDS 6050 or CI.	Analysis of instructional problems in schools. Emphasis on supervisory tasks, case studies, and the application of problem solving techniques and strategies.
EDS	7130	Teacher Evaluation: Process and Instruments	3	ED	EDB	PR: EDA 6061, EDF 6432, CI.	Examines procedures for establishing content validity, reliability, norms, and predictive validity of teacher evaluation systems. Examines the psychometric qualities of selected instruments.
EEC	6055	Advocacy and Leadership in Early Childhood Education	3	ED	EDU		This course focuses on developing leadership skills and knowledge necessary to help individuals build coalitions and design effective public policy/advocacy initiatives. This course is open to graduate non-majors and is repeatable for 3 hours credit.
EEC	6205	E.C.: Curriculum and Authentic Assessment	3	ED	EDU		This course focuses issues, strategies and research associated with curriculum and authentic assessment. This course is open to graduate non-majors and is repeatable for three hours credit.
EEC	6261	Advanced Programs In Early Childhood Education	3	ED	EDU	PR: EDF 6432, EEC 4203 or DPR.	Innovative curriculum designs in Early Childhood Education, with emphasis given to related research.
EEC	6265	Early Childhood Programs and Advanced Curriculum	3	ED	EDU		Historical traditions and contemporary programs and curriculum models analyzed with an emphasis on dominant practices, methodologies, and current research that influences curriculum development in programs serving young children. Open non-majors/RTHC.
EEC	6405	Home - School - Community Interaction In Early Childhood Education	3	ED	EDU	PR: EDF 6432, EEC 4203 or DPR.	Roles of parents, teacher aides, and community agencies involved in the education of the young child.
EEC	6406	Social Growth In Childhood	3	ED	EDU		Principal factors that influence the social development of young children with particular emphasis upon those cultural influences that affect both child development and the educational programs for the young child.
EEC	6415	EC: Diversity in Home and School	3	ED	EDU		Focuses on issues of diversity that affect classroom practices with emphasis on analyzing and synthesizing pertinent literature and research. This course is open to graduate non-majors and is repeatable for three credit hours.

EEC	6517	Social Justice in Early Childhood Education	3	ED	EDU		This course uses a social justice lens to examine the impact of diversities on social functioning and development of young children. Research skill development includes analysis of social policies. Course is open to non-maj and is rpt for 3 credit hours.
EEC	6525	Early Childhood Program Development and Administration	3	ED	EDU		An analysis of current educational programs for young children with emphasis on designing, developing, and administering a program commensurate with the needs of young children. This course is open for non-majors and is repeatable for 3 credit hours.
EEC	6626	EC: Play and Learning	3	ED	EDU		This course includes an analysis of play theories, the role of play in the total development of young children, and the role of play as a curricular tool and implications for program planning and evaluation. Open non-majors/RTHC.
EEC	6678	Research Seminar: Issues and Trends in Early Childhood Education	3	ED	EDU		This course is designed to create an awareness of developing trends and issues facing the field of early childhood education. Relevant research is reviewed and possible avenues for advocacy are explored. Course open to non-majors, repeatable for 3 credit hours.
EEC	6705	Intellectual Growth In Childhood	3	ED	EDU		Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. Child study through observation required.
EEC	6926	Workshop In Early Childhood Education	3	ED	EDU		Individual problems and innovations related to methods and materials of instruction in early childhood.
EEC	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDU		
EEC	7910	Directed Research in Early Childhood Education	1-19	ED	EDU	PR: Advanced graduate standing.	Independent student-faculty research course.
EEC	7980	Dissertation	2-30	ED	EDU	PR: Admission to Candidacy	
EED	6211	Educational Strategies for Students With Behavior Disorders	3	ED	EDS		Advanced methods and materials for planning, implementing, and evaluating educational interventions with students with behavior disorders. For certification.
EED	6215	Advanced Theories and Practices in Behavior Disorders	3	ED	EDS	Introductory course in special education.	In-depth study of specific behavioral disorders of children and youth, with an emphasis on educational implications and interventions.
EED	6246	Educating Students with Autism	3	ED	EDS	PR: GS.	This course provides an overview of the characteristics, etiology, and prevalence of autism spectrum disorders, along with the knowledge and skills necessary to

							support the learning of children with autism spectrum disorders.
EED	6943	Supervised Practicum in Behavior Disorders	1-12	ED	EDS	PR: CI. S/U.	Supervised graduate practicum experiences with children who have behavior disorders. For students seeking certification only.
EEL	5250	Power System Analysis	3	EN	EGE	PR: EGN 3375.	Analysis and design technique for AC power systems.
EEL	5344C	Digital CMOS/VLSI Design	3	EN	EGE	PR: EEL 4705 or GS.	Design, layout, simulation, and test of custom digital CMOS/VLSI chips, using a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops, CMOS array structures commonly used in digital systems. Top down design example of a bit slice processor.
EEL	5356	Integrated Circuit Technology	3	EN	EGE	PR: EEL 4351 or GS.	Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.
EEL	5357	Analog CMOS/VLSI Design	3	EN	EGE	PR: EEL 4301 or GS.	Design of analog circuits for CMOS/VLSI design. Op amps, comparators, D to A and A to D converters. Switched capacitor filters. Analog simulation.
EEL	5382	Physical Basis Of Microelectronics	3	EN	EGE	PR: EEL 4471 or GS.	Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.
EEL	5462	Antenna Theory	3	EN	EGE	PR: EEL 4471 or GS.	Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.
EEL	5572C	Local and Metropolitan Area Networks	3	EN	EGE	PR: EEL 4512C or GS.	Basics of data communication exchange of digital information over communication media; Basics of LANs/MANs and its components: media topologies, access methods, etc.; LAN/MAN architectures and protocols-IEEE 802.xLAN Standards; High speed LANs such as FDDI, IEEE 802.6 MAN, etc., Internetworking; LAN/MAN Design and selections.
EEL	5594L	Wireless Circuits and Systems Laboratory	2	EN	EGE	PR: EEL 4472.	This class will provide introductory tutorial learning, plus hands-on experience in analysis, design and measurement in the field of wireless communications.
EEL	5631	Digital Control Systems	3	EN	EGE	PR: EEL 4657 or GS.	Sample data and digital control processes
EEL	5754C	Microprocessor Based Digital Signal Processing	3	EN	EGE	PR: EEL 4705 or CI.	Arithmetic systems, processing structures, efficient algorithms. DSP hardware, TI, NEC and other DSP microprocessors; multiprocessing hardware and software. System development. Application to telecommunications and voice processing.
EEL	5771	Introduction to Computer Graphics I	3	EN	ESB	PR: EEL 4851C.	An introduction to the evolution of computer graphics including point-plotting, line drawing, two-

							dimensional transformations and graphics software packages.
EEL	5935	Special Electrical Engineering Topics I	1-3	EN	EGE		
EEL	5936	Special Electrical Engineering Topics II	1-3	EN	EGE		
EEL	5937	Special Electrical Engineering Topics III	1-3	EN	EGE		
EEL	6073	Chemical/Biological Sensors and Microfabrication	3	EN	EGE		This course discusses general concepts of MEMS, microfabrication and chem/bio sensors. The course concentrates on basics of MEMS, different processes involved and principles of sensing and understanding systems approaches to problems that require Sensors/MEMS.
EEL	6090	Introduction to Nanotechnology	3	EN	EGE	PR: Physics I, Chemistry I and Calculus I and II.	Basic nanotechnology fabrication and characterization techniques. Nanomaterials, Top-down and bottom-up assembly processes. Applications of nanotechnology.
EEL	6151	Advanced Circuit Theory II	3	EN	EGE	PR: EEL 6150.	Network fundamentals; network characterization, frequency analysis; superposition integrals; signal-flow techniques, stability problems; real and imaginary relations.
EEL	6318	Characterization of Semiconductors	3	EN	EGE		Electrical, optical, chemical, and physical methods used to characterize semiconductor materials and devices; includes surface and near surface spectroscopes. Available to non-majors.
EEL	6345	VLSI for Signal Processing	3	EN	EGE		VLSI applications in signal processing and telecommunications. General purpose DSP architectures. ASIS architectures: systolic arrays, data-flow multiprocessing, wavefront arrays. Case histories: modems, echo cancelers, digital PLL, etc. High-speed arithmetic and algorithms.
EEL	6353	Semiconductor Device Theory I	3	EN	EGE		Theory of operation and application of circuits and devices.
EEL	6354	Semiconductor Device Theory II	3	EN	EGE	PR: EEL 6353.	Theory of operation and application of circuits and devices.
EEL	6355	Compound Semiconductor Technology	3	EN	EGE		Bulk crystal and epitaxial growth technologies of III-V and II-VI compound semiconductors. The properties, characterization, and device applications of these compounds will be emphasized.
EEL	6391	Noise in Electrical Devices	3	EN	EGE	PR: EEL 6387.	Characteristics, measurements and generation mechanisms of noise sources observed in electronic materials and devices. Materials and devices to be considered include thin and thick films, superconductors, semiconductors and semiconductor devices.
EEL	6426	RF and Microwave Circuits I	3	EN	EGE	PR: EEL 4471 and ELR 4316L or Graduate Standing.	Provides an introduction to passive RF/microwave/wireless circuit design. Topics to be covered include distributed transmission line theory, lumped circuit and

							network analysis, impedance matching, and the design of various microwave components.
EEL	6427	RF and Microwave Circuits II	3	EN	EGE	PR: EEL 6426.	This course presents the design theory and analysis of microwave transistor amplifiers and oscillators. Lectures, homework, and CAD projects develop an understanding of the design and performance issues for this class of circuits.
EEL	6434	Active Microwave Structures and Devices	3	EN	EGE	PR: EEL 5437	Theory and design of solid state low noise and high power amplifiers, solid state oscillators and high power tubes for waveguide, coax and integrated circuit applications.
EEL	6447C	Optoelectronics	3	EN	EGE		Basic principles and operations of lasers and analyses of power output and frequency pulling in laser oscillators.
EEL	6463	Advanced Antenna Theory	3	EN	EGE	PR: EEL 5462.	Electromagnetic radiating systems studied by analytical and numerical methods.
EEL	6481C	Numerical Techniques In Electromagnetism	3	EN	EGE	PR: EEL 5462, EEL 6486CC.	Review of Maxwell's equations. Finite differences, finite elements, boundary elements method of moments. Introduction to geometric theory of optics and diffraction.
EEL	6486C	Electromagnetic Field Theory	3	EN	EGE		Time harmonic electromagnetic fields emphasizing problems in transmission lines and electric power transmission.
EEL	6487C	Advanced Electromagnetic Field Theory	3	EN	EGE	PR: EEL 6486C.	Time harmonic fields emphasizing problems with exact solutions in the rectangular, cylindrical and spherical coordinate systems. Solutions by methods, Green's functions and vector methods.
EEL	6502	Digital Signal Processing I	3	EN	EGE		Digital signals and Fourier transforms. Z-transforms, digital filter networks; DFT, DCT, and fast transforms. Design of IIR and FIR filters; quantization effects. Multi-rate processing; interpolation and decimation.
EEL	6506C	Broadband Communication Networks	3	EN	EGE	PR: EEL 6534.	Objectives of networking, circuit and packet switching, queuing theory. Topologies, layered architectures, protocols and network performance. Local and wide area networks. Broadband networks: SONET, SHD, ATM and BISDN. ATM: cell concept, visual paths and channels, layer functions, interfaces and protocols; switch fabrics; CBR, VBR, ABR traffic, QOS. Current trends and internet. Applications to data/voice/video/multimedia traffic.
EEL	6509	Satellite Communication	3	EN	EGE	PR: EEL 6534.	Satellite characteristics, link calculations, earth station, frequency management, large and small mobile earth terminals. Digital communication for satellites: modulation coding and multiple-access techniques. Examples including the INTELSAT

							series.
EEL	6519	Ultra High Speed Communications	3	EN	EGE	PR: EEL 6535.	Ultra high-speed channels; radio, microwave, and lightwave. High-order constellations. Multiplexing, demultiplexing, and framing. Adaptive equalization for inter-symbol interference and multi-path fading. Switching space and time for UHS streams.
EEL	6534	Digital Communication Systems	3	EN	EGE		Digital communication & info. theory. Random processes. Digital modulation and demodulation. Source & channel coding. Detection theory: matched filter and sequence detection. Multiple access techniques. Spread spectrum & multi-user radio communications.
EEL	6545	Random Processes in Electrical Engineering	3	EN	EGE		Review of probability theory, functions of random variables; examples in electrical engineering. Sequences of random variables. Concepts in random processes, correlation functions, power spectrum, random inputs to linear systems. Spectral analysis. Applications to engineering systems.
EEL	6563	Optical Fiber Communication	3	EN	EGE	PR: EEL 6545.	A study of fiber-optic technology as applied to communications systems.
EEL	6586	Speech Signal Processing	3	EN	EGE	PR: EEL 6502.	Speech models: acoustic tube, source-filter. Time and frequency domain properties. Linear prediction analysis of speech. Speech coding: APCM, DPCM, ADPCM, sub-band, VQ, etc. Speech synthesis and recognition. Speech processing hardware.
EEL	6592	Digital Video and Multimedia	3	EN	EGE		Principles of video transmission and television. Digital video standards. Multimedia principles (including video, image, and sound) and their applications. Enhanced definition and and high definition television principles, standards, and technology.
EEL	6593	Mobile and Personal Communication	3	EN	EGE	PR: EEL 6534.	Characteristics of wireless mobile channels indoor and outdoor ; multipath and shadow fading, frequency reuse; micro and pico cells; base-station and portable units. Cell coverage, blocking, and co-channel interference. TDMA, FDMA, CDMA and hybrid approaches to multiple access. Protocols, hand-over. Voice, data, and multi-media over wireless indoor channels.
EEL	6597	Wireless Network Architecture and Protocols	3	EN	EGE	PR: EEL 6593 or CI.	Wireless systems and standards. Network fundamentals. Channel characteristics, models. Modulation/coding, spread spectrum. Multiple access control: TDMA/FDMA/CDMA. Mobility/resource management. Wireless network architecture-cellular, satellite, broadband.
EEL	6613	Modern Control	3	EN	EGE		A study of modern control

		Theory					techniques including optimum and adaptive control.
EEL	6614	Systems and Control Theory I	3	EN	EGE		Analysis of multi-variable linear systems continuous and discrete time, state-space methodology and transfer functions description . Analysis and design of feedback control systems. Effects of plant and measurement noise. Optimal control.
EEL	6615	Systems and Control Theory II	3	EN	EGE	PR: EEL 6614.	Continuation of EEL 6614.
EEL	6620	Nonlinear Control Systems	3	EN	EGE		Principles of state-variables, phase-plane and describing functions.
EEL	6640	Random Processes in Control Systems	3	EN	EGE		Analysis and design of control systems subject to random inputs and disturbances.
EEL	6658	RF & Microwave Measurments	2	EN	EGE	Wireless Circuits Systems Lab.	Concentrates on the theory and applications of modern radio frequency and microwave measurements. Topics include netowrk analyzer, spectrum analyzer, noise, power and non-linear distortion measurements.
EEL	6706	Testing And Fault Tolerance In Digital Systems	3	EN	ESB	PR: COP 2400, CDA 4201 or CI, majors only.	Test generation for combinational and sequential digital circuits, fault analysis and diagnosis. Methods for reliability improvement through fault tolerant and testable circuit design. Introduction to software reliability.
EEL	6707	Advanced Digital Systems	3	EN	EGE		Principles of combinational circuit analysis, duality, hazards, IC gates, circuit design. Analysis of fundamental mode sequential circuits, sequential circuit synthesis, design for testability, using MSI and standard cells. Register transfer design and hardware description languages.
EEL	6752	Digital Signal Processing II	3	EN	EGE	PR: EEL 6502.	Fast algorithms, FFT, fast convolution; DCT, CZT. Random signals. Linear prediction, application to speed coding. Spectrum estimation. Quantization effects. Pencil-of-functions method. Adaptive filtering and equalization.
EEL	6753	Digital Signal Processing III	3	EN	EGE	PR: EEL 6502 or EEL 6752.	Advanced topics in digital signal processing, e.g. a Adaptive arrays, beam forming, and applications to radar and sonar, b Multi-rate filtering, multi-resolution analysis, sub-band analysis, wavelet transforms, and applications to images and other large-scale measurements, c Noise cancellation, and d inverse problems, such as CT reconstruction.
EEL	6764	Principles Of Computer Architecture	3	EN	ESB	PR: CDA 4100 or CI.	Arithmetic algorithms, CPU speedup techniques, memory hierarchies, virtual memory, input-output. Study of the number systems and the algorithms used for digital arithmetic computation with emphasis on their implementation, speed and

							reliability considerations.
EEL	6765	Microsystems and MEMS Technology	3	EN	EGE		This course provides an overview of the MEMS Technology, focusing on devices and systems that can be developed using standard processing approaches.
EEL	6766	Advanced Computer Architecture	3	EN	ESB	PR: EEL 6764 or CI.	Control unit and microprogramming, reduced instruction set computers RISC , object oriented systems, multiprocessor systems, supercomputers. The macrostructure of computers is considered in this course, ranging from the orthodox von Neumann design to multiprocessors, stack processors, pipeline systems, and associative computers.
EEL	6820	Image Processing	3	EN	EGE		Two-dimensional signals including random, convolution and system functions. Fourier transform and FFT in two dimensions. Digitization of two-dimensional signals, quantization and aliasing errors. Filtering, restoration, and low bit-rate coding of images. Application to video-conferencing.
EEL	6846	Coding Theory	3	EN	EGE	PR: EGN 5423.	Error-correcting codes, algebraic block codes, linear codes and feedback shift registers; BCH codes; convolutional codes; burst error correcting codes; arithmetic codes; decoding methods.
EEL	6908	Independent Study	1-19	EN	EGE	S/U.	Independent study in which students must have a contract with an instructor.
EEL	6932	Advanced Engineering Seminar	1-3	EN	EGE		
EEL	6935	Selected Electrical Topics	1-3	EN	EGE		
EEL	6936	Special Electrical Problems	1-3	EN	EGE		
EEL	6971	Thesis: Master's	2-19	EN	EGE	S/U.	
EEL	7931	ST in Communication	3	EN	EGE	PR: EEL 6535.	Advanced topics in communications such as synchronization, spread-spectrum communications, fading channels, large constellation signaling schemes, mobile radio, statistical multiplexing, performance measurement, etc.
EEL	7980	Dissertation: Doctoral	2-19	EN	EGE	PR: Admission to Candidacy. S/U.	
EEX	5705	Seminar in Preschool Handicapped	2	ED	EDS		Intended to familiarize the education student with the wide range of needs and services of the preschool children with disabilities and their families and how they coordinate with educational services.
EEX	5752	Working With Families: A Pluralistic Perspective	3	ED	EDS	PR: Introductory course in special education, GS.	The impact of the socio/cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working

							effectively with families of school-age children, diverse cultures and family structures represented in school populations today.
EEX	6025	Trends and Issues in Special Education	3	ED	EDS	Fall Semester. DPR.	Survey of all exceptionalities including current trends and issues related to the field of special education.
EEX	6051	Creating Positive Learning Environments for Students with Disabilities	6	ED	EDS	PR: Admission to the MAT.	This course presents an overview of assessment, behavior management, and instructional planning for students with disabilities. It also incorporates content about the historical and legal foundations of special education and theories and research that focus on defining, describing and intervening with students who have learning disabilities, behavior disorders, mild-moderate mental retardation, mild to moderate developmental disabilities, and physical disabilities.
EEX	6088	Curriculum and Instruction for Students with Low Incidence Disabilities	3	ED	EDS	PR: Graduate Standing.	Analysis of current issues and best practices in assessment for teaching, curriculum content, and instruction for students with severe disabilities and the provision of educational services within inclusive general education settings and home communities.
EEX	6207	Indentification and Assessment of Individuals with Low Incidence Disabilities	3	ED	EDS	PR: Graduate Standing.	This course offers a critical analysis of the processes in place to identify students with low incidence disabilities. Subsequent influences on development, learning and curriculum assessment in a least restrictive environment is explored.
EEX	6222	Advanced Psychoeducational Assessment of Exceptional Students	3	ED	EDS	PR: GS, introductory courses in exceptional student education and educational assessment.	Theory and methodology associated with norm-referenced, criterion-referenced, curriculum-based, ecological, and psychoneurological assessment procedures for exceptional students.
EEX	6225	Developing Individualized Educational Programs for Students with Disabilities	6	ED	EDS	PR: EEX 6051 and admission to the MAT.	This 6-hour course reinforces and extends competencies in assessment, behavior management, legal and ethical foundations of special education, instructional planning, working with families, collaboration, and characteristics of disabilities. Content emphasizes knowledge and skills needed by teachers who are working with students who have mild disabilities and those from diverse cultural, socioeconomic and ethnic areas.
EEX	6228	Observational Methods and Functional Assessment	3	ED	EDS		Provide students with instruction in functional assessment procedures and direct observation methods to be used consistent with the principles of applied behavior analysis in mental health and education settings.
EEX	6234	Collaborative	3	ED	EDS	PR: Graduate	This course offers an analysis of

		Transition and Career Planning for Students with Low Incidence Disabilities				Standing.	collaborative, interdisciplinary transition planning strategies and explores issues surrounding the development and use of functional, community-based curriculum for adolescents with severe or profound disabilities.
EEX	6245	Transitional Programming for the Adolescent and Young Adult Exceptional Student	3	ED	EDS	PR: GS, introductory course in educating exceptional students.	Procedures for implementing educational programs with exceptional adolescents. Includes educational programming, alternative programs, community resource coordination, career/occupational education, and advocacy.
EEX	6247	Implementing Programs for Students with Disabilities	6	ED	EDS	PR: EEX 6225.	Course emphasizes instructional approaches for implementing reading, math, language arts and social skills instruction in conjunction with classroom management for students with emotional, learning and/or cognitive disabilities. Majors only. Not repeatable
EEX	6248	Instructional Approaches for Exceptional Populations	3	ED	EDS	PR: Introductory course in special education, GS.	In-depth study of instructional strategies that are effective when teaching students with emotional disturbance, mental retardation, and learning disabilities. Content includes techniques for curriculum adaptation, IEP development; direct, data-based and metacognitive strategy instruction; and micro-computer applications.
EEX	6511	Administration of Exceptional Student Programs	3	ED	EDS	Fall Semester.	Procedures that local, state, and national administrators may use to implement services for exceptional students.
EEX	6526	Grantsmanship	3	ED	EDS	PR: Advanced GS.	Fundamental skills for obtaining external funding of training, service, and research projects in education and the social sciences. Includes locating and communicating with sponsors, developing proposals, and preparing budgets. Emphasis is on grantsmanship in an academic environment.
EEX	6612	Management and Motivation of Exceptional and At-Risk Students	3	ED	EDS	PR: Introductory course in special education, GS.	Available to non-majors. Focuses on approaches to classroom management and motivational strategies when working with exceptional students. Content includes applied behavior analysis techniques, psychoeducational approaches, and social skills training.
EEX	6706	Education of the Preschool Handicapped Child	3	ED	EDS	Fall Semester.	Education of children ages birth through five with special needs. Basic concepts, curricular intervention strategies, and organizational structures are covered.
EEX	6732	Consultation and Collaboration in Special Education	3	ED	EDS	PR: Introductory course in special education, GS.	Theories of consultation and collaboration. Overview of service delivery models in special education.
EEX	6906	Independent Study: Special Education	1-6	ED	EDS	S/U.	Independent study in which students must have a contract with

							an instructor.
EEX	6936	Seminar in Integrating Exceptional Students in Regular Educational Environments	3	ED	EDS		Designed for non-special education graduate students. Surveys the characteristics of exceptional student populations, identification procedures, and systems for providing appropriate services for "mainstreamed" student in academic and non-academic settings.
EEX	6939	Advanced Seminar: Paradigms, Practices, and Policies in Special Education	3	ED	EDS	PR: DPR. Students should be in the last semester of coursework for master's degree.	An advanced graduate seminar stressing cross-categorical relationships. Topics include research that deals with paradigms for providing service, service models, and legal mandates.
EEX	6943	Practicum in Exceptional Student Education	1-4	ED	EDS	PR: Admission to Master's Degree Program in Special Education and DPR. S/U.	Supervised field work in exceptional student education with children (including preschool handicapped) who have learning disabilities, mental handicaps, emotional and behavioral disabilities, physical disabilities, or multiple disabilities.
EEX	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDS	S/U.	
EEX	7203	Educational Implications of Psychosocial Aspects of Exceptional Children	1-5	ED	EDS	DPR.	This course will be concerned with the identification of the psycho-social needs and characteristics of exceptional children; opportunity of analysis of the educational implications of these needs and characteristics.
EEX	7301	Selected Topics in Special Education	1-8	ED	EDS	PR: EEX 7341 or DPR.	Identification and study of ethical and research issues in special education. Opportunity will be provided for the student to gather and process data, as appropriate, culminating in a written report and/or oral presentation to fellow student researchers.
EEX	7341	Research Studies and Their Implications in the Education of Exceptional Children	3	ED	EDS	PR: EDF 6431, EDF 6481, or equiv., DPR.	This course will involve a study of current research and research methods used in exceptional child education. The transition from theory to practice will be made through the examination and discussion of implications in the field of special education that can be drawn from the research.
EEX	7741	Philosophy and Theory in the Preparation of Special Education Specialists	3	ED	EDS	PR: Admission in the Program for Ed.S. or Ph.D. in Education. DPR.	In-depth exploration of the philosophy and theory in special education. A theoretical basis for the preparation of specialists in the field of exceptional child education.
EEX	7743	Philosophies of Inquiry	3	ED	EDS	PR: EDF 6481 or Equivalent, or permission of instructor	The purpose of this course is to introduce doctoral students to different approaches to educational research and to alternative frames for criticism, including postpositivism, constructivism, poststructuralism, pragmatism, critical theory, narrative, race and gender, ethics, and aesthetics.
EEX	7744	Curriculum and Instructional Issues in Urban Special	3	ED	EDS		The purpose of this course is to review and critically examine the theoretical and research literature

		Education					on the interactions of race, culture, class, and disability on the schooling experiences of urban (ethnic minority and impovershed) children and their families. The course also takes into account that ethnic minority and poor children may or may not reside in urban areas and as a result of school and community desegregation movements, those learners may also attend suburban and rural schools, in addition to urban schools. The course will provide varied formats for graduate students to identify and address critical issues and trends in urban special education and related services areas that impact outcomes for monority learners across social classes and impovershed learners from majority cultural backgrounds.
EEX	7745	Historical, Ethical, and Disciplinary Foundations of Special Education	3	ED	EDS		Historical, Ethical, and Disciplinary Foundations of Special Education provides doctoral students a critical understanding of the social, political, ethical, and legal contexts that shaped the research, policies, and practices in the field of Special Education during the twentieth century.
EEX	7815	Research Seminar	2-3	ED	EDS	PR: Admission to Doctoral Program	This seminar, taken each semester of the first and second years of the doctoral program, will contribute to the development of the skills and values that lead to the creation of new knowledge and its application to the field of special education in order to improve outcomes for students who have disabilities and their families. Issues in urban schools will be emphasized.
EEX	7841	Fieldwork With Exceptional Students	1-5	ED	EDS	DPR.	Practical field experience in curriculum development, classroom teaching, supervision, and/or administrative areas in special education.
EEX	7910	Directed Research	1-19	ED	EDS		
EEX	7911	Specialized Study In: Mental Retardation, Behavior Disorders, Specific Learning Disabilities, and Gifted Education	1-8	ED	EDS	DPR.	The specialized study enables advanced exploration of knowledge in an area of interest to the student in special education.
EEX	7939	Teacher Education in Special Education: Conceptual	2	ED	EDS	PR: Admission to the PH.D. program in Special Education.	This four-semester seminar focuses on teacher education in special education.
EEX	7980	Dissertation	2-30	ED	EDS	PR: Admission to Candidacy.	
EGI	5051	Nature and Needs of the Gifted	3	ED	EDS		This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is

							on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.
EGI	5325	Theory and Development of Creativity	3	ED	EDS		Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.
EGI	6232	Advanced Educational Strategies for the Gifted	3	ED	EDS	PR: EGI 5051.	Curriculum adjustments, methods and techniques, as well as classroom organizations necessary for teaching students who are gifted will be the focus of this course. Emphasis will also be on curriculum in gifted programs within the context of school reform and restructuring.
EGI	6416	Consultation, Counseling, and Guidance Skills for Gifted Students	3	ED	EDS		Primary emphasis of this course will be to provide an awareness, knowledge, and understanding of the unique guidance and counseling needs of students who are gifted and talented or from special populations.
EGI	6936	Seminar in Education of the Gifted: Special Population	3	ED	EDS		This seminar will provide a critical survey of the research, issues, policy, ethics, and practices related culturally diverse, economically disadvantaged, limited, English proficient, twice exceptional, highly gifted, or very young.
EGI	6943	Supervised Practicum in Gifted Education	1-12	ED	EDS	PR: CC. S/U.	Planned experiences working with students who are gifted, program development and administration, or an individualized inquiry of a specific issue related to gifted education.
EGM	6656	Theory of Elasticity	3	EN	EGX	PR: CES 6116	Classical and contemporary elasticity theory with applications to engineering problems.
EGN	5421	Engineering Applications for Vector Analysis	3	EN	EGB		Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.
EGN	5422	Engineering Applications of Partial Differential Equations	3	EN	EGB		Power series solutions for ordinary differential equations, Sturm-Liouville theory, special functions. Vector methods with generalized coordinates. Separation of variables for partial differential equations. Green's functions. Calculus of variations. Numerical methods.
EGN	5423	Neural Networks and Mathematics for Communication	3	EN	EGB		Finite fields and coding applications. Probabilities of error detection and correction. Introduction to neural networks. Advanced matrix algorithms: LU and QR factorizations, least-

							squares, pseudoinverses.
EGN	5424	Engineering Applications of Complex Analysis	3	EN	EGB		Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.
EGN	5425	Engineering Applications of Advanced Matrix Computations	3	EN	EGB		Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications.
EGN	6426	Engineering Analysis VI	3	EN	EGB	PR: EGN 4420.	Application of computational and mathematical techniques and principles to advanced engineering problems.
EIN	5174	Total Quality Management Concepts	3	EN	EGS		This course will examine the methodology and procedures that companies use to improve quality and its operational benefits, including the management transformation (paradigm shift) that is evolving. Unrestricted. Nonrepeatable for credit.
EIN	5182	Principles of Engineering Management	3	EN	EGS		Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.
EIN	5275	Work Physiology and Biomechanics	3	EN	EGS	PR: CC, majors only.	Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.
EIN	5350	Technology and Finance	3	EN	EGS		A course for technical managers that focuses on how financial and economic principles are utilized to make technical investments and manage technical enterprises.
EIN	5357	Engineering Value Analysis	3	EN	EGS	PR: EIN 5219 or equiv., majors only	Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.
EIN	5510	Manufacturing Systems Analysis	3	EN	EGS	PR: CC, majors only.	The study of systems of manufacturing entities such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.
EIN	6106	Technology and Law	3	EN	EGS	PR: CI.	Selected topics related to the relationships between and among technology, law and social policy, including governmental regulation, products liability, professional liability, contract negotiation and formation, and developments and trends affecting engineering professionals.
EIN	6107	Professional Behavior and the Engineer	3	EN	EGS	PR: CI..	A study of professional ethics and morals as faced by technical managers in the development, production, and marketing of industrial products and services. Emphasis on case studies, class discussions, and guest lecturers

							regarding ethical issues in managerial decision making.
EIN	6108	EM-Human Relations	3	EN	EGS		Human relations, understanding oneself, understanding other people, influencing and motivation performance, improving moral and discipline, and self appraisal and analysis for the technical manager.
EIN	6112	Information Systems Design for Engineers	3	EN	EGS		This course introduces students to the design and implementation of information systems, with special emphasis on industrial applications. The topics to be covered include the relational database model, structured query language, and design methodologies.
EIN	6119	Decision Support Systems in Engineering Management	3	EN	EGS	Majors only	Conceptual foundations of decision support systems with focus on the needs of engineering managers and effective decision making in technological and scientific organizations.
EIN	6121	Technology and Markets	3	EN	EGS		Marketing strategy and its relationship to the development of technology from the viewpoint of interaction between the technical enterprise and its industrial and government customers.
EIN	6145	Project Management	3	EN	EGS	PR: EGN 3443 or equivalent.	Provide principles and techniques for planning, scheduling and managing projects in engineering and related environments. Applies analytical tools and techniques including software to solve project management problems. Not restricted. Non-repeatable.
EIN	6154	Technical Entrepreneurship	3	EN	EGS		A comprehensive study of developing and starting an engineering venture. Student teams work out a business plan for a company to develop, manufacture, and distribute a technical product or service.
EIN	6178	ISO 9000/14000	3	EN	EGS	PR: EIN 5174.	Study and analysis of ISO 9000/14000 publications with a view to understanding the documentation process and auditing process for registration purposes and the relationship to other quality systems and programs. Unrestricted. Nonrepeatable for credit.
EIN	6179	Advanced Total Quality Management Methods	3	EN	EGS	PR: EIN 5174.	This course is a presentation of Six Sigma in industry: details of the methodology that comprise it, and how it relates to Total Quality Management. This course is restricted to students pursuing majors in the IMSE Department. Nonrepeatable for credit.
EIN	6183	Engineering Management Policy And Strategy	3	EN	EGS	Majors only.	Strategic planning and policy formulation in technical and scientific organizations. General managers in the middle. Translation of strategic plans into action plans and implementation of the strategic change process. This is a capstone course in the EM

							program to be taken during the last semester of the student's program.
EIN	6215	Engineering System Safety	3	EN	EGS	PR: Statistics.	The theory and practical implications of the concept of systems safety as these relate to the life cycle of a product or system. Analysis of the fundamental concepts, design implications, and specifications of safety in human machine environments.
EIN	6216	Occupational Safety Engineering	3	EN	EGS	PR: GS in Public Health or Engineering or CI.	Introduction to the principles of designing, maintaining, and managing a workplace free from hazards. Covers mechanical hazards, fall and lifting hazards, climatic and environmental hazards, fire and explosive hazards, and pressure hazards. Considers design issues, warnings, and personal protective equipment. Term project required.
EIN	6225	Total Quality Management Seminar	3	EN	EGS	PR: EIN 5174.	Study and analysis of TQM Principles through discussion, guest lecturers, critiques of published articles. A variety of quality techniques will be examined to determine their level of adoption and effectiveness. Unrestricted. Nonrepeatable for credit.
EIN	6247	Engineering Information Processing	3	EN	EGS	Majors only.	A study of human information processing theories and measurement techniques as applied to engineering problems emphasizing perceptional, cognitive, and learning aspects of interpersonal and human-computer communication.
EIN	6258	Human/Computer Interaction	3	EN	EGS	PR: EIN 5275, majors only.	Application of human factors in the design and operation of man/machine systems. Analysis of the use of microprocessors and computer-controlled devices in man/machine systems.
EIN	6265	Industrial Mental Health	3	EN	EGS	Majors only.	Theories and concepts of mental hygiene and positive mental health as applied to organizational settings. Review of research studies related to industrial mental health; stress management; strategies for improving mental health and employee performance.
EIN	6319	Work Design And Productivity Engineering	3	EN	EGS	Majors only.	Foundations of motivated work performance, job satisfaction and organizational productivity. Analysis of job content and job context, comparison of different concepts for improving organizational effectiveness; suggestions for productivity improvements through effective work redesign.
EIN	6336	Production Control Systems	3	EN	EGS	PR: CC, majors only.	Forecasting models, development of production plans, loading and scheduling models and basic inventory models. Use of MRP. Design and evaluation of production control systems.

EIN	6386	Management of Technological Change	3	EN	EGS	Majors only.	A study of problems encountered by managers in the planning, organizing, directing, and controlling of resources in technology-based organizations.
EIN	6430	Overview of Regulated Industries	3	EN	EGS		This course provides students with basic information on regulated industries, emphasizing challenges experienced in medical device development, manufacture and commercialization with regard to regulatory requirements. Unrestricted. Nonrepeatable.
EIN	6431	Regulated Quality Systems and Control	3	EN	EGS	PR: EIN 6430 or CI.	This course provides students with information to design quality systems for regulated industries, emphasizing medical device manufacturing. The application of various statistical techniques to the control of industrial processes will be used.
EIN	6432	Regulated Product Approval Process	3	EN	EGS	PR: EIN 6430 or CI.	The course provides students with information to collaborate effectively with the FDA to navigate the product approval process, emphasizing medical devices. The underlying scientific, regulatory and quality processes for submission will be reviewed.
EIN	6433	Human Factors Engineering in Medical Devices	3	EN	EGS	PR: EIN 6430 or CI.	The course provides students with information for the ergonomic design and operability of medical devices. These systematic designs are critical in improving the safety of medical devices by reducing the probability of user error.
EIN	6434	Design Controls for Medical Devices	3	EN	EGS	PR: EIN 6430 or CI.	The course provides students with information to establish procedures to effectively control the design requirements and specifications for medical devices. The design process will be examined to apply the best approaches for verification and validation.
EIN	6435	International Regulations for Medical Devices	3	EN	EGS	PR: EIN 6430 or CI.	The course provides students with information regarding the major global compliance issues related to medical devices. The initiatives of the Global Harmonization Task Force to facilitate international trade without compromising safety will be explored.
EIN	6605	Robotics And Assembly Automation	3	EN	EGS	Majors only.	The use of robots in manufacturing assembly; coordinated use of robots, machine tools, feeders, holding devices, and material handling systems.
EIN	6934	Special Industrial Topics I	1-3	EN	EGS	PR: CC, majors only.	
EIN	6935	Special Industrial Topics II	1-3	EN	EGS	PR: CC, majors only.	
EIN	6936	Special Industrial Topics III	1-3	EN	EGS	PR: CC, majors only.	
EIN	6971	Thesis: Master's	2-19	EN	EGS	Majors only. S/U.	
EIV	5315	Program Management:	3	ED	EDV		Organization, coordination, and budgeting of adult, cooperative,

		Diversified Cooperative Training					and special programs.
ELD	6015	Advanced Theories and Practices in Specific Learning Disabilities	3	ED	EDS	PR: Introductory course in exceptional child education, GS.	Various conceptual and/or theoretical models are reviewed; current trends and issues related to education of children with specific learning disabilities.
ELD	6235	Educational Strategies for Student With Specific Learning Disabilities	3	ED	EDS	PR: ELD 6015, EEX 6222.	Advanced educational procedures and materials development for the student with specific learning disabilities. For certification.
ELD	6943	Practicum With Learning Disabilities	1-12	ED	EDS	PR: CC. S/U.	Supervised experiences with children who have learning disabilities.
ELR	7910	Directed Research	1-19	EN	EGE	PR: GR. Ph.D. level. S/U.	
EMA	5326	Corrosion Control	3	EN	EGX	PR: EGN 3365.	Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.
EMA	6001	Advance Materials	3	EN	ECH	PR: Graduate Standing or CI.	Principles of structure, structure modification and properties of materials with emphasis on structure-property relationships and modern theory of solids.
EME	5403	Computers in Education	3	ED	EDK		A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.
EME	6425	Technology For School Management	3	ED	EDK		This course provides information and skills necessary for administrators and teachers to effectively use the computer and application software to manage information. Students use programs such as word processors, database managers, and spreadsheets to facilitate management tasks at the school and classroom level. In addition, general computer education topics are covered which provide for the computer literacy of school administrators.
EME	6613	Development of Technology-Based Instruction	3	ED	EDK	PR: EDF 6284 or DPR.	Application of computer-based instructional design principles to the development of technology-based instruction. This course also incorporates state-of-the-art materials and methods involving digital technologies.
EME	6906	Independent Study in Instructional Technology	1-6	ED	EDI		Independent study under the direction of an IT faculty member. Student must have contract with instructor.
EME	6930	Programming	3	ED	EDK	PR: Computer literacy	Development of concepts,

		Languages for Education					strategies, and materials for using programming languages in educational settings. Separate sections will focus on different programming languages such as LOGO, BASIC, Hyperscripting, Pascal, Advanced Pascal.
EME	6936	Applications of Computers as Educational Tools	3	ED	EDK	PR: Computer literacy	Selected topics in the application of computing and related technology to the teaching and learning processes. Separate sections will focus on topics such as telecommunications, image and sound processing, interactive media, artificial intelligence, data acquisition, and information systems.
EME	6971	Thesis: Masters/Ed. Specialist	2-9	ED	EDI		The purpose of the thesis/project(Education Specialist student requirement)is to provide an opportunity for the student to apply knowledge gained in the program to the resolution of significant needs arising from professional practice.
EME	7458	Research in Distance Learning	3	ED	EDI	PR: Graduate Standing; computer and e-mail access	An on-line course about distance learning designed to provide an integrated framework to explore theory within practice. Topics incluse distance technologies; implications for teaching and learning; issues and trends; and research.
EME	7631	Research in Technology Project Management	3	ED	EDI	PR: Graduate Standing; EDF 6284 or CI	A graduate level course that examines project management and provides tools and process to apply sound project management principles to the field of instructional design and technology. Topics include project management issues related to time, resources, technical, and people skills.
EME	7910	Directed Research in Instructional Technology	1-19	ED	EDI	PR: CI.	This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.
EME	7938	Computer-Augmented Instructional Paradigms in Education	3	ED	EDK	PR: Admission to program or DPR.	Seminar examining theory and application of computers and related technology in teaching and learning.
EME	7939	Research in Technology-Based Education	3	ED	EDK	PR: Admission to program or DPR.	Seminar examining in-depth research on the uses of computers and related technology on teaching and learning. Also includes investigation on role of computers and related technology as research instrumentation.
EME	7980	Dissertation	2-30	ED	EDK	PR: Admission to Candidacy	
EML	5930	Special Topics III	1-4	EN	EGR	PR: CC.	
EML	6069	Advanced Mathematics for Mechanical Engineers	3	EN	EGR	PR: Undergraduate Calculus, Undergraduate	Basic theory of ordinary and partial differential equations useful in applications. First- and second-

						Differential Equations.	order equations, separation of variables, Fourier series, Laplace transforms.
EML	6105	Advanced Thermodynamics and Statistical Mechanics	3	EN	EGR	PR: ECH 3023C orEML 4106C or CI	Topics in classical thermodynamics, some elementary subjects in statistical mechanics and some applications in combustion.
EML	6145	Numerical Methods in Heat Transfer	3	EN	EGR	PR: CI, majors only	Application of finite difference and finite element techniques to problems of conduction and convection. Cartesian, cylindrical and spherical systems. Steady and transient solutions.
EML	6154	Advanced Conduction Analysis	3	EN	EGR	PR: EML 4124, EML 3041, majors only	Multi-dimensional heat transfer. Emphasis on solution techniques, exact and numerical.
EML	6157	Radiation	3	EN	EGR	PR: EML 4124, majors only	Review of basic principles of radiation, grey bodies and real surfaces, calculation of shape factors, absorbing gases.
EML	6223	Synthesis of Vibrating Systems	3	EN	EGR	PR: EML 4220, majors only	Advance topics in vibration. Random vibration in mechanical systems. Auto-correlation and power spectral density. Response of single and multidegree of freedom systems to random excitation. Frequency response function and coherency measurements. Contents variable.
EML	6232	Composite Laminated Materials	3	EN	EGR	PR: EML 3500, majors only.	Fundamental relationships for predicting the mechanical and thermal response of multi-layered materials and structures. Micromechanical and macromechanical relationships are developed for laminated materials with emphasis on continuous filament. Material, structural and strength optimization to design laminated composite materials using user-friendly software.
EML	6273	Advanced Dynamics of Machinery	3	EN	EGR	PR: EML 3624 or CI, majors only	Detailed study of velocities, accelerations and forces in machines with parts having rotating, reciprocating, and combined motion.
EML	6375	Dir Dig Ctrl I		EN	EGR		
EML	6570	Principles of Fracture Mechanics	3	EN	EGR	PR: EML 3500.	Introduction to the mechanics of brittle and ductile fracture. Linear elastic fracture, elastic-plastic fracture, testing, metals and non-metal materials, and fatigue fracture.
EML	6606	HVAC Systems Design	3	EN	EGR	PR: EML 4601 or CI, majors only	Criteria for selection of systems types; performance, characteristics of single zone, multizone, double duct and variable volume systems; energy conservation in HVAC design; HVAC controls; computer models of HVAC systems; solar energy used in HVAC.
EML	6653	Applied Elasticity	3	EN	EGR	PR: EML 3500	Students will apply the fundamentals of elasticity to engineering problems. Practical problems will be solved and advantages of using particular methods will be illustrated.
EML	6713	Advanced Fluid	3	EN	EGR	PR: CI, majors only	Introduction to computational

		Mechanics					problem solutions in fluid mechanics and heat and mass transfer as applied to mechanical engineering. The emphasis is on the formulation and solution of computational engineering problems.
EML	6801	Robotic Systems	3	EN	EGR	PR: CI, majors only	Overview of existing industrial and specialized robot types and operation; vision systems; tactile sensors; ranging and proximity techniques; actuation/transmission methods; power sources; autonomous vehicle mobility and navigation methods; and artificial intelligence.
EML	6808	Mechanics and Control of Robotic Manipulators	3	EN	EGR		The purpose of this course is to understand the mechanocs and control of robot manipulators. Topics include: Spatial descriptions and transformations; manipulator kinematics; manipulator dynamics; path planning and trajectory generation; position and force control implementation.
EML	6907	Independent Study	1-6	EN	EGR	PR: GR, majors only S/U.	Independent study in which students must have a contract with an instructor.
EML	6930	Special Problems I	1-3	EN	EGR	PR: CC, majors only	
EML	6931	Special Problems II	1-3	EN	EGR	PR: CC, majors only	
EML	6971	Thesis: Master's	2-6	EN	EGR	PR: CC, majors only	
EML	7915	Directed Research	1-6	EN	EGR	PR: CC and GR. Ph.D. level, majors only. S/U.	
EML	7980	Dissertation: Doctoral	2-12	EN	EGR	PR: Admission to Candidacy	
EMR	6052	Advanced Theories and Practices in Mental Retardation	3	ED	EDS	PR: GS; introductory course in exceptional student education.	In-depth study of the complex social and biological aspects of mental retardation with particular reference to effects on education.
EMR	6303	Educational Strategies for the Mentally Retarded	3	ED	EDS		In-depth study of the specific curriculum and methodological problems in teaching students with mental retardation. For certification.
EMR	6943	Graduate Supervised Practicum in Mental Retardation	1-12	ED	EDS	PR: CC. For students seeking certification only. S/U.	Supervised graduate practicum encompassing teaching and supervising experiences in public school classes for students with mental retardation.
ENC	6319	Scholarly Writing for Publication in English Studies	3	AS	ENG		Methods of writing and publishing scholarly articles, monographs, and textbooks in rhetoric and composition, literary scholarship, and criticism. Required for Literature majors.
ENC	6336	Studies in the History of Rhetoric	3	AS	ENG		Examines the evolving relationship between rhetoric and composition from antiquity to the present.
ENC	6421	Studies in Rhetoric and Technology	3	AS	ENG		Examines the intersection of Rhetoric and technology, with emphasis on contemporary critical issues in composition studies.
ENC	6700	Studies in	3	AS	ENG		Major theories and models of

		Composition Theory					composing. Selected theorists include Rohman, Emig, Sommers, Flowers, and Hayes.
ENC	6720	Studies in Composition Research	3	AS	ENG		Examines and evaluates a broad range of important research studies conducted in composition and a variety of research techniques such as descriptive statistics, qualitative research design, and measurement and evaluation. Instruction in how to conduct composition research.
ENC	6740	Theory and Development of Writing Programs	3	AS	ENG		Operating theories of and administrative procedures for implementing writing programs on various levels; focuses on remedial, freshman, advanced, and technical writing programs as well as writing centers.
ENG	6009	Bibliography for English Studies	3	AS	ENG		Detailed study of bibliographies of cultural milieus, genres, periods, and authors. Consideration of the profession's standards and procedures for publishing scholarly research. In addition to library research, the student will also submit one scholarly article of publishable quality.
ENG	6018	Studies in Criticism and Theory I	3	AS	ENG		This course examines selected controversies in literary criticism and scholarship from the classical period to 1800, including problelms of imitation, the quarrel between Ancients and Moderns, the ethics of the imagination, and the roles of women critics.
ENG	6019	Studies in Criticism and Theory II	3	AS	ENG		This course focuses on important trends in contemporary literary criticism with the major theoretical texts that inform these trends.
ENG	6067	History of the English Language	3	AS	ENG		This course traces the evolution of the English Language from its early Germanic and Scandinavian roots to its emergence in time as tantamount to a universal language. The course uses literary works to show the stages of dramatic change.
ENG	6916	Directed Research	1-19	AS	ENG	PR: GR. M.A. Level, CC. S/U.	
ENG	6939	Graduate Seminar in English	3	AS	ENG	PR: Consent of graduate advisor.	Intensive small-group discussion as well as shared and individual guided research in one of the student's areas of concentration.
ENG	6971	Thesis: Master's	2-19	AS	ENG	PR: CC. S/U.	
ENG	7916	Directed Research	1-19	AS	ENG	PR: GR. Ph.D. level. S/U.	
ENG	7939	Doctoral Seminar	3	AS	ENG	PR: Admission to Ph.D. Program.	Intensive small-group discussion as well as shared and individual guided research in a student's area of doctoral specialty.
ENG	7980	Dissertation: Doctoral	2-19	AS	ENG	PR: Admission to Candidacy. S/U.	
ENL	6206	Studies in Old English	3	AS	ENG		A study of Old English language,

							prose style, poetry.
ENL	6216	Studies in Middle English	3	AS	ENG		Selected focused studies in language and in various authors and writings, 1100-1500; Chaucer, the Pearl poet, Everyman, ballads, drama.
ENL	6226	Studies in Sixteenth-Century British Literature	3	AS	ENG		Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney, Spenser, Marlowe, and others.
ENL	6228	Studies in Seventeenth-Century British Literature	3	AS	ENG		Selected focused studies in British literature, 1600-1660; Bacon, Donne, Jonson, Herbert, Milton, and others.
ENL	6236	Studies in Restoration and Eighteenth-Century British Literature	3	AS	ENG		Selected focused studies in Restoration and Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others.
ENL	6246	Studies of the English Romantic Period	3	AS	ENG		A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry.
ENL	6256	Studies in Victorian Literature	3	AS	ENG		A study of Victorian poetry, fiction, non-fictional prose, and drama.
ENL	6276	Studies in Modern British Literature	3	AS	ENG		A study of Irish and English drama, the modern novel, poetry, criticism, and the short story.
ENV	5103	Air Pollution Control	3	EN	EGX	PR: EGN 3353.	Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.
ENV	5334	Hazardous Waste Management and Remedial Action	3	EN	EGX	PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558; or CI, majors only. Undergraduate preparation in environmental engineering or an environmental science program.	Introduction to hazardous waste management and remediation: RCRA regulatory concepts, definitions, aspects of hazardous waste management from within the plant to final disposal. History of hazardous waste cleanup leading to CERCLA and its amendments, site investigations; site control; those aspects of treatment that are unique to remedial action.
ENV	5345	Solid Waste Control	3	EN	EGX	PR: CI. Undergraduate preparation in environmental engineering, or graduate standing in environmental engineering or an environmental science program.	Introduction to solid waste management, including its definition as an umbrella for hazardous waste: regulatory concepts; waste types, quantities, and characterization; collection and recycling; facility siting; disposal; thermal treatment.
ENV	5504C	Environmental Engineering Processes	3	EN	EGX	PR: ENV 4001, ENV 4004L, ENV 4417	Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and process used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and

							settling. This course is restricted to majors, has no external laboratory section associated with the course, is not available on an S/U basis only, is not cross-listed with another department or college.
ENV	6002	Physical and Chemical Principles in Environmental Engineering	3	EN	EGX	PR: B.S. in engineering or consent of instructor.	Investigates how chemical properties, physical processes, and environmental characteristics all influence the fate and transport of chemicals in natural and engineered systems. Includes theory, practical examples, and laboratory experiments.
ENV	6347	Materials Recovery Engineering	3	EN	EGX	PR: ENV 5345 or CI, majors only	Analysis of materials for purposes of processing. Unit operation and plant analysis. Thermal treatment and energy recovery. Unit operations in materials processing and seperation. Applications to resource recovery, recycling, mineral, and agricultural materials. Field trip.
ENV	6438	Natural & Small Scale Treatment Systems	3	EN	EGX	PR: CI, majors only.	A study of the theory, analysis and design of natural aquatic systems to treat wastewater. Emphasis is on use of treated and partially treated wastewater or residues to enhance, restore, or create wetlands, as well as land application.
ENV	6519	Advanced Physical/Chemical Processes	3	EN	EGX	PR: ENV 6666 or CI, majors only	Theory and design of processes used in advanced water and wastewater treatment, including membrane processes, absorption, electrodialysis, ozonation, irradiation.
ENV	6539	Sludge Treatment & Disposal	3	EN	EGX	PR: ENV 6667 or CI, majors only	Examines the physical, chemical, and biological unit operations and processes utilized in treating and disposing of sludges produced at water and wastewater treatment facilities.
ENV	6558	Industrial and Hazardous Waste Treatment	3	EN	EGX	PR: ENV 6667 or CI, majors only	Industrial waste surveys; contemporary industrial wastewater treatment and control methods; characteristics of industrial wastes and their effects on receiving streams.
ENV	6614	Quantitative Environmental Risk Analysis	3	EN	EGX	PR: Graduate standing in engineering or environmental science discipline; elementary knowledge of programming.	Quantitative approach to the determination of risk. Focus is on environmental and control and protection, but techniques apply widely. Covers assessment of risk factors, failure, contaminant transport, and health effects. Includes discussion of significance, implementation, and policy. Course project involves the development of small risk analysis model.
ENV	6666	Aquatic Chemistry	3	EN	EGX	PR: CI.	An introduction to the form, structure, and chemical activities of the important processes essential to treatment of domestic and industrial wastewater.
ENV	6667	Environmental Biotechnology	3	EN	EGX	PR: CI.	Study of biochemical relations and processes in treatment of

							pollutants with emphasis on control of effluents for the protection of water quality. CI.
ENY	5505C	Aquatic Entomology	4	AS	BIO	PR: ENY 3004C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.	Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Fieldwork required. Lecture and Laboratory.
EPH	5051	Advanced Theories in Motor and Physical Disabilities	3	ED	EDS	PR: EEX 4011 or DPR.	Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.
EPH	5321	Educational Strategies for Physically and Multihandicapped Students	3	ED	EDS	PR: EPH 5051.	Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.
EPH	6944	Supervised Practicum in Motor Disabilities	3-12	ED	EDS	PR: EEX 4011 or CI. For students seeking certification only. S/U.	Supervised graduate practicum encompassing teaching and supervising experiences in public/private educational or vocational programs for students with physical disabilities in the classroom, hygiene, and educational implications.
ESE	5342	Teaching the Adolescent Learner	3	ED	EDI		Emphasis is placed on adolescent developmental and learning needs linking them to practices in the classroom appropriate to the diverse secondary education population (ESOL, special education, multicultural, at-risk, etc.) in preparation for planning responsive standards-based instruction.
ESE	5344	Classroom Management for a Diverse School and Society	3	ED	EDI		This course covers practical, theoretical, philosophical and ethical aspects of school and society, the education profession, and secondary schools with particular focus on classroom management, school violence, school safety, educational law and other critical social issues.
ESE	6215	School Curriculum: Secondary	3	ED	EDC	PR: EDG 4620, EDG 6627	Open to all education graduate students. Examines the organization, curriculum, and instruction of the secondary school with special emphasis on the nature of the students served.
ESE	6256	Problems In Curriculum Instruction: Secondary	1-3	ED	EDC	PR: EDG 4620, EDG 6627.	For teachers, supervisors, and administrators. Curricular and instructional problems of the secondary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.
ESE	6906	Independent Study: Secondary Education	1-6	ED	EDI	S/U.	Independent study in which students must have a contract with an instructor.
ESE	7216	Curriculum Frameworks in	3	ED	EDC	PR: Doctoral standing or permission of the	This course introduces and informs advanced graduate

		Teacher Education				instructor.	students about the conceptions of curriculum development related to teacher preparation, exploring topics related to the comprehensive process of certification, standards, goverance, and accrediation.
ESE	7910	Directed Research in Secondary Education	1-19	ED	EDI	PR: CI.	Directed research under the direction of a faculty member in Secondary Education. Student must have contract with instructor.
ESI	5219	Statistical Methods For Engineering Managers	3	EN	EGS	Not open to students who have had EGN 3443.	Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.
ESI	5236	Reliability Engineering	3	EN	EGS	PR: ESI 5219 or equiv., majors only PR: EGN 3443 or equivalent.	Fundamental concepts of reliability. Estimation of reliability of systems and components. Measures of availability, maintainability and reliability.
ESI	5306	Operations Research For Engineering Management	3	EN	EGS	Not open to students who have had ESI 4312. ESI 5219 or equiv., majors only.	Linear programming, non-linear programming, queuing, inventory, network analysis.
ESI	5522	Computer Simulation	3	EN	EGS	PR: ESI 4521 or equiv., majors only.	Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.
ESI	6213	Theory of Industrial Statistics	3	EN	EGS	PR: ESI 5219 or equiv.	Study of the theory behind the statistical techniques applied to the solving of engineering problems.
ESI	6225	Quality Assurance Plans	3	EN	EGS	PR: ESI 5219 or equiv., majors only	Advanced techniques in quality control systems. Includes study of articles in current journals.
ESI	6247	Statistical Design Models	3	EN	EGS	PR: ESI 5219 or equiv., majors only	Design of experimental mathematical models. Application of advanced analysis of variance techniques as applied to industrial problems.
ESI	6291	Special Topics in Statistics	3	EN	EGS	PR: CC, majors only.	Special topics in statistics related with research in engineering.
ESI	6324	Engineering the Supply Chain	3	EN	EGS	PR: ESI 4312 or equivalent.	The course will focus on the discussion of analytical optimization models and tools. To learn how logistical decisions impact the performance of a firm as well as an entire supply chain. To understand supply chain structures and logistical capacities.
ESI	6448	Integer Programming	3	EN	EGS	PR: EEL 6491.	The course will present the theory and algorithms of integer programming, with emphasis on its applications in engineering. The tentative topics include integer programming formulation and relaxation and decomposition algorithms.
ESI	6491	Linear Programming and Network Optimization	3	EN	EGS	PR: ESI 4312 or equivalent.	To provide students with the general theory and characteristics of linear programming, network flows and integer programming as well as effective solution algorithms that can be used to support effective decision making.
ESI	6555C	Topics in Automation	3	EN	EGS	PR: CC, majors only.	Study of recent advances in automated systems, automation concepts, control methods,

							numerical control, adaptive control.
ESI	6605	Engineering Date Mining	3	EN	EGS	PR: ESI 6247 or equivalent.	The course will present the theory and methods of data mining, with emphasis on applications in engineering. The topics include linear models, classification, smoothing and kernel methods, model selection and inference, and support vector machines, etc.
ESI	6906	Independent Study	1-19	EN	EGS	Majors only. S/U.	Independent study in which students must have a contract with an instructor.
ESI	6911	Directed Research	1-19	EN	EGS	PR: GR. ML, majors only. S/U.	
ESI	7911	Directed Research	1-19	EN	EGS	PR: GR. Ph.D. level, majors only. S/U.	
ESI	7980	Dissertation: Doctoral	2-19	EN	EGS	PR: Admission to Candidacy.	
EVR	6101	Geomorphology for Environmental Scientists	3	AS	ESP	PR: Introductory background in Geology or Physical Geography.	Course will explore the evolution of landscapes, natural processes that alter Earth's surface, and rates of change in the surficial environment. The course will emphasize topics relevant to environmental scientists in Florida - esp. soils, karst, & coasts.
EVR	6216	Advances in Water Quality Policy and Management	3	AS	ESP	PR: Graduate standing in EVR, ENV, GEO, GLY, GPY, PCB or PHC; or consent of instructor.	Conceptual structure and practical implementation of U.S. watershed-based water quality regulations and policies. Practical application of scientific information and quantitative methods in management/policy decisions for water quality protection.
EVR	6408	Wildlife Ecology	3	AS	ESP	PR: Graduate standing. Undergraduate students may enroll under co-listed undergraduate number.	Population ecology, animal behavior, food resources, habitat resources, wildlife diseases, predation, competition, wildlife and water, wildlife and soils, hunting and trapping, exotic wildlife, urban wildlife, and conservation.
EVR	6921	Scholarly Presentation of Environmental Research	1-2	AS	ESP	PR: Advanced standing in ESP Department Masters program. CR: EVR 6971 or consent of instructor.	Discussion and practice in methods of writing, presenting, and defending cross-disciplinary environmental research. Written and oral assignments on communicating research objectives, methods, results, theory, and analysis of policy relevance.
EVR	6922	ESP Capstone Seminar	3	AS	ESP	PR: Departmental approval required.	A capstone graduate course that integrates issues related to science, policy and management in making decisions. Each semester, the program selects an environmental issue to serve as a case study. Some anticipated themes include global warming, water quantity and quality, air pollution and restoration.
EVR	6930	Research Colloquium in Environmental Science and Policy	1	AS	ESP	PR: Graduate standing in Environmental Science and Policy or consent of instructor.	Scholarly presentations by invited academic researchers and leading policy decision-makers.
EVR	6936	Seminar in	3	AS	ESP		A seminar course that reviews a

		Environmental Science					major theme or themes in environmental science that integrates knowledge and research from various scientific disciplines.
EVR	6937	Seminar in Enviromental Policy	3	AS	ESP	PR: Graduate standing in EVR, ENV, GEO, GLY, GPY, PCB, or PHC; or consent of instructor.	Critical assessment of environmental policy and regulatory formulation, implementation, evaluation, and revision in the context of scientific, technological, institutional, political, social and economic factors; case studies of major U.S. policies.
EVR	6971	Thesis: Master's	2-19	AS	ESP	PR: CC. S/U	
EVR	7921	Doctoral Dissertation Preparation	3	AS	ESP	PR: Graduate standing and consent of instructor.	This course will assist students in developing dissertation topics; to think creatively about their topics; to draft a dissertation proposal and a dissertation outline. Students should register for either EVR or GEO 7921 depending on his/her subject area.
EVR	7980	Doctoral Dissertation Research	2-15	AS	ESP	PR: Accepted into the GEP Doctoral program; EVR 7920 is completed by all students that designate Environmental Science and Policy as their subject area; and permission of the student's major professor.	The dissertation is an original contribution to scholarship. The research is performed under the guidance of the major professor, which determines how many dissertation hours are completed (maximum 42 hours).
EVT	5369	Preparation and Development for Teaching	4	ED	EDV		The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.
EVT	5664	School Community Development	3	ED	EDV		Identifying, assessing, and analyzing, individual, institutional and community needs for the purpose of cooperative program planning, community involvement, and public support.
EVT	6264	Administration Of Local Programs: Vocational	3	ED	EDV		Organization, personnel selection and assignment, and establishment of policies and procedures for local vocational programs within federal, state and local requirements.
EVT	6265	Supervision Of Local Programs: Vocational Education	3	ED	EDV		A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.
EVT	6500	Individualized Instruction	3	ED	EDV		Emphasis given to individualized instruction to include the special needs student, the slow learner, and the more capable student.
EVT	6504	Placement of Severely Handicapped People	3	ED	EDV		A study of the purpose, methods, processes, and procedures used to plan, implement, and operate a Vocational Rehabilitation Cooperative School Counseling

							Program.
EVT	6661	Current Trends	3	ED	EDV		Historical information, issues, current trends, new dimensions, and problems in adult and vocational education and related areas.
EVT	6685	Emerging Workplace Competencies	3	ED	EDV		An interactive exploration of emerging workplace competencies through research, analysis, and work-based experiences for the purpose of professional development and program improvement.
EVT	6769	Methods, Procedures, and Processes of Vocational Evaluation	3	ED	EDV		A study of the purposes, methods, processes and procedures used to plan, implement, and operate a vocational evaluation program.
EVT	6926	Staff Development	1-5	ED	EDV		Implementation of new procedures addressed to discrete developmental needs of the staff as identified by an educational agency.
EVT	6930	Seminar	3	ED	EDV		Focuses on special topics, interaction with visiting scholars, recent research and major initiatives within the profession.
EVT	6948	Practicum: Industrial-Technical Education	3-6	ED	EDV	S/U.	A problem-centered field study in the local community, school, government, office, social agency, business, or industry.
EVT	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDV	S/U. Ma/Des Candidates only.	
EVT	7066	Foundations And Philosophy Of Vocational, Technical And Adult Education	3	ED	EDV	PR: Preliminary admission to the advanced graduate program and/or CI.	Historical development and contemporary philosophies, cultural bases and practices of Vocational, Technical, and Adult Education.
EVT	7155	Career Development in Vocational, Technical, and Adult education	3	ED	EDV	PR: Preliminary admission to the advanced Graduate Program and CI.	Development of a career model designed to facilitate career development of students and articulate vocational education and career guidance.
EVT	7168	Instructional Development For Vocational, Technical, And Adult Education	4	ED	EDV		The systematic approach to vocational, technical, and adult education curriculum improvement and instructional development. Students will apply an instructional systems approach to the development of practical solutions to critical teaching and learning problems.
EVT	7267	Vocational And Adult Education Program Planning And Implementation	3	ED	EDV		Knowledge and skills necessary to participate in the initial determination, planning, organization, and implementation of new or expanded adult, vocational and technical education institutions or programs.
EVT	7761	Research Seminar In Vocational, Technical, And Adult Education	3	ED	EDV	PR: Completion of program requirements in measurement and research or DPR. Available to majors only.	Examination and critical evaluation of research in a particular specialization area of Vocational, Technical, or Adult Education. Preparation of an individual research prospectus.
EVT	7910	Directed Research in Vocational Education	1-19	ED	EDV	PR: CI.	This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty

							member as supervisor. A contract is required with the faculty member.
EVT	7980	Dissertation	2-30	ED	EDV	PR: Admitted to Candidacy.	
EXP	6307	Motivation and Emotion	3	AS	PSY	PR: CI.	A detailed examination of human motivation and emotion from both the physiological and psychological viewpoints.
EXP	6526	Human Memory	3	AS	PSY	PR: Admission to graduate program in Psychology or CI.	Review of methods, findings, and theoretical interpretations associated with the acquisition and retention of information.
EXP	6608	Cognitive Psychology	3	AS	PSY	PR: Admission to graduate program in Psychology or CI.	A survey of the research and theory dealing with higher memory, language, and the higher mental processes. Core requirement for all graduate students in Psychology.
EXP	6643	Psychology of Language	3	AS	PSY	PR: GS.	Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. Current status of theory and research in the field.
EXP	6930	Topics in Experimental Psychology	3	AS	PSY	PR: CI.	Electrophysiological methods and psychophysiology.
EXP	7099	Graduate Seminar in Experimental Psychology	1-3	AS	PSY	PR: CI.	Seminars on topics, such as learning, perception, memory, cognitive processes, and quantitative methods.
FIL	5469C	Cinematography	4	VP	ART	PR: PGY 4520C.	Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.
FIN	6246	Advanced Money and Capital Markets	3	BA	FIN	PR: ECO 6204	The study of the role of financial markets, instruments, and institutions in the economy. It includes the study of flow of funds, interest rate determination, and the pricing of capital assets.
FIN	6326	Bank Management	3	BA	FIN	PR: FIN 6406	Theory, policy and practice of commercial bank management with emphasis on strategic issues and decision making in an expanding financial services environment.
FIN	6406	Financial Management	3	BA	MBA	PR: ACG 6025 and ECO 6114	The study of processes, decision structures, and institutional arrangements concerned with the acquisition and utilization of funds by a firm. The course includes the management of the asset and liability structures of the firm under both certainty and uncertainty.
FIN	6416	Advanced Financial Management	3	BA	FIN	PR: FIN 6406 or equivalent.	A synthesis of the theory and the practice of corporate finance. Particular attention is given to the role of the agency problems and agency cost in explaining why the observed consequences of financial decisions often deviate from those predicted by traditional theory.
FIN	6418	Working Capital Management	3	BA	FIN	PR: FIN 6406	This course is designed to provide the student with an understanding of short-term financial

							management which includes decision making concerning sources and uses of cash flows to support short-term operations.
FIN	6445	Financial Policy	3	BA	FIN	PR: FIN 6406 or CI	A case study approach to financial policy and strategy with emphasis on the firm's major financial decisions.
FIN	6515	Investments	3	BA	FIN	PR: FIN 6406, CC	An examination of the risks and returns of alternative investment media within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions.
FIN	6605	International Financial Management	3	BA	FIN	PR: FIN 6406 or equiv., CC	The course provides a foundation for the understanding of financial management of international business. The subjects covered relate to: international finance, multinational business finance, and financial market theory.
FIN	6804	Theory of Finance	3	BA	FIN	PR: FIN 6406 or CI	A systematic and rigorous course in the theory of finance. Topics will include the theory of choice and the allocation of financial resources, the theory of optimal investment decisions and the theory of risk and uncertainty in financial decisions. It will also cover the theoretical concepts underlying financing decisions and the cost of capital.
FIN	6906	Independent Study	Var.	BA	FIN	PR: CC. S/U.	Students must have a contract with an instructor.
FIN	6915	Directed Research	Var.	BA	FIN	PR: GR, ML, CC. S/U.	
FIN	6934	Selected Topics in Finance	1-4	BA	FIN	PR: GS and CI.	Depending upon the scope and magnitude of the work required. Includes special lecture series.
FIN	7808	Advanced Micro Finance	3	BA	FIN	PR: FIN 6406, FIN 6804, ECO 6424 or Departmental approval.	The study of advanced theoretical and empirical works in finance primarily relating to financial decisions at the level of the firm.
FIN	7817	Financial Markets	3	BA	FIN	PR: FIN 6246, FIN 6515, or Departmental approval.	The study of advanced theoretical and empirical works in finance primarily relating to financial institutions and markets.
FIN	7930	Selected Topics in Finance	3	BA	FIN	PR: FIN 7808, QMB 7566, or Departmental approval.	A study of selected topics of current issues on the frontiers of financial thought.
FIN	7935	Finance Research Seminar	3	BA	FIN	PR: One semester of FIN 7930.	Theoretical and/or empirical research on finance related problems. This course will require research papers to be written and presented. It is designed to aid the student in developing a thesis and the research methodology necessary for the doctoral dissertation.
FIN	7980	Dissertation	2-19	BA	FIN	PR: Admission to Candidacy.	
FLE	5145	Language Principles, Acquisition and Teaching	3	ED	EDX	PR: FLE 5345	Restricted to Education majors and not repeatable for credit. Overview of applied SLA theory

							and components of language. Methods & techniques of comprehensible instruction and the development of oral proficiency and literacy skills for LEP children.
FLE	5291	Technology in the Foreign Language Classroom	3	ED	EDX	PR: FLE 5313 and FLE 5331.	This course is intended to prepare foreign/second language teachers to provide pedagogically sound and technologically enhanced instruction for foreign language and second language students in the K-16 realm. Basic computer literacy is recommended.
FLE	5313	Methods of Teaching Foreign Language and ESOL in the Elementary School	3	ED	EDX		This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.
FLE	5331	Methods of Teaching Foreign Language and ESOL in the Secondary School	3	ED	EDX	PR: FLE 5313.	This course provides for the development of knowledge and skills necessary to prepare students to assume roles as foreign language (FL) and ESOL teachers at the secondary school level. It represents the second part of a sequence of methods courses.
FLE	5345	Teaching English Language Learners K-12	3	ED	EDX		This course is restricted to Education majors and is not repeatable for credit. It is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for LEP students.
FLE	5366	ESOL Education in Content Areas	3	ED	EDX		Enables participants to meet the special linguistic & cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical & practical foundation for ESOL competencies in courses include ESOL infusion.
FLE	5430	ESOL I - Theory and Practice of Teaching English Language Learners	3	ED	EDX		This course is for undergraduate degree holding, preprofessional (preservice) teachers to learn about appropriate instruction, assessment and learning opportunities for Limited English Proficient (LEP) students in the content areas.
FLE	5431	ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents	3	ED	EDX	PR: FLE 5430.	This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority / heritage communities.
FLE	5432	ESOL III-Language Principles, Acquisition & Assessment for English Language Learners	3	ED	EDX	PR: FLE 5431.	This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.
FLE	5895	Dual Language Education	3	ED	EDX		This course is for teachers who are interested in bilingual education. The aim is to deconstruct the philosophical,

							theoretical, political, social and educational underpinning of instruction (K-16) when it is delivered through two languages.
FLE	5940	ESOL Practicum	1-3	ED	EDX	PR: FLE 5345 and FLE 5145. Must be taken in the semester prior to final intership.	This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.
FLE	5946	Practicum in Foreign Language/ESOL Teaching	3	ED	EDX	PR: FLE 5313. CR: FLE 5331.	This course prepares students for their internship by providing a structured pre-internship experience while meeting regularly in a university class. Opportunity to see teachers in action.
FLE	6665	Current Trends in Secondary Foreign Language Education	3	ED	EDX	PR: FLE 4314/FLE 4333 or teaching experience. Fluency in the target language and in English.	Designed for experienced classroom teachers, theoretical and practical implications of recent programs and methodology. Instructional practices in the teaching of foreign languages. Individual projects.
FLE	6829	Graduate Instruction Methods	1-4	ED	EDX	PR: CC. S/U only.	Special course to be used primarily for the training of graduate teaching assistants.
FLE	6906	Independent Study in Foreign Language Education	1-6	ED	EDX		Independent Study in which students must have a contract with an instructor. Rpt. S/U
FLE	6932	Selected Topics in Second Language Acquisition	3	ED	EDX	PR: Approval of graduate advisor.	This course would provide a flexible format to offer specialized courses in second language acquisition not available in the regular curriculum. This would allow faculty to address issues at the frontiers of the field in second language acquisition. Repeat as topics vary
FLE	6947	Internship	6	ED	EDX	PR: CI.	Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)
FLE	7939	Advanced Seminar in Foreign Language Education	3	ED	EDX	PR: FLE 6665	Advanced readings and discussion of theories, perspectives and issues in foreign/second language education from K-20, including examination of current practices, action research, accredidation, certification, teacher development, and assessment in the field.
FOL	5906	Directed Study	1-3	AS	WLE	PR: FOL 4101 or equivalent.	
FOW	6805	Bibliography	1	AS	WLE	S/U.	Research methods. Includes familiarity with major journals and bibliographies, with a practicum.
FRE	5425	Advanced Written Expression	3	AS	WLE	PR: FRE 4421, or equivalent.	Course is designed to give advanced training in free composition in French.
FRE	5566	Contemporary France	3	AS	WLE	PR: FRE 3500 or equivalent or graduate standing.	An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.
FRE	6910	Directed Research	1-	AS	WLE	PR: GR. ML, CC. S/U.	

			1 9			Departmental approval required.	
FRE	6971	Thesis: Master's	2-1 9	AS	WLE	PR: CC. S/U. Departmental approval required.	
FRW	5222	Classical Prose and Poetry	3	AS	WLE	PR: FRW 4101.	Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau.
FRW	5226	20th Century Poetry and Theatre	3	AS	WLE	PR: FRW 4101.	Valery, Claudel, Anouilh, Motherland, Sartre, Ionesco.
FRW	5286	The 20th Century Novel	3	AS	WLE	PR: FRW 4100.	Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.
FRW	5314	Classical Drama	3	AS	WLE	PR: FRW 4101.	Corneille, Moliere, and Racine.
FRW	5415	Literature of the Middle Ages	3	AS	WLE	PR: FRW 4100 or FRW 4101.	Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.
FRW	5425	Literature of the Renaissance	3	AS	WLE	PR: FRW 4100 or FRW 4101.	A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.
FRW	5445	18th Century Literature	3	AS	WLE	PR: FRW 4100.	The classical tradition and the new currents of thought in the Age of Enlightenment.
FRW	5528	Pre-Romanticism	3	AS	WLE	PR: FRW 4100 or FRW 4101.	The precursors of romanticism. Emphasis on Rousseau, Bernardin de St. Pierre, Chenier, and Chateaubriand.
FRW	5535	Romanticism and Early Realism	3	AS	WLE	PR: FRW 4101.	A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.
FRW	5556	Naturalism and Realism	3	AS	WLE	PR: FRW 4100 or FRW 4101.	A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.
FRW	5745	French Literature of Quebec	3	AS	WLE	PR: A survey of Francophone literature and cultures is recommended.	Overview of the main representative literary works in French from Quebec in all genres (poetry, drama, novel, short story) as well as a survey of the main traits of Quebec history & culture. Open to non-majors. Not repeatable for credit. Taught in French.
FRW	5755	African and Caribbean Literature	3	AS	WLE	PR: A survey of French literature.	An overview of the main representative literary works in French from North and SubSahara Africa as well as the Caribbean. Open to non-majors and not repeatable for credit. Course taught in French.
FRW	5829	An Introduction to Modern French Literary Criticism	3	AS	WLE		A graduate elective 3 credit course entirely taught in French, which offers a survey of the main trends and methods in 20th Century literary criticism, the French having been at the avant-garde of the field.
FRW	5934	Selected Topics	1-3	AS	WLE	PR: Upper-level or graduate standing.	Study of an author, movement or theme.
FRW	6315	Seminar on Classical Drama	3	AS	WLE		An in-depth study of the works of one or more of the following dramatists: Corneille, Racine, or Moliere.
FRW	6405	Old French	3	AS	WLE		An introduction to the Old French language and literature. Readings from representative texts.
FRW	6938	Graduate Seminar	3	AS	WLE		Topics vary.
GEA	6195	Seminar in Advanced	3	AS	GPY	PR: GS in	Analytic study of a selected region

		Regional Geography				Geography.	of the world.
GEA	6215	Seminar in North American Geography	3	AS	GPY	PR: GS in Geography or CI.	Advanced survey of historical and contemporary issues in North American geography including: west and non-west exchange, revolutionary transformation, nation-building, regional disparities, and continental relations among states.
GEA	6252	Seminar in the Geography of the American South	3	AS	GPY	PR: GS in Geography or CI.	Intensive examination of regional geographic studies and their application to the American South, including concepts related to the physical and cultural landscapes, economic growth and change, urbanization, and cultural diffusion processes.
GEA	6406	Seminar in Latin American and Caribbean Geography	3	AS	GPY	PR: GS in Geography or CI.	Readings and discussions organized around an examination of regional and systematic analysis of selected topics of Latin American and Caribbean geography. Emphasis is on combining physical and cultural analysis of this region.
GEA	6504	Seminar in European Geography	3	AS	GPY	PR: GS in Geography or CI.	Readings and discussions organized around an examination of regional and systematic analysis of selected topics of European Geography. Emphasis is on combining physical and cultural analysis of this region.
GEA	6745	Asian Geography Seminar	3	AS	GPY	PR: GS in Geography or CI.	Analysis of regional divisions and spatial variations within Asia. Examines the significance of Asia in the global context. Focus on political, economic, cultural, and historical geographies, including development, environment, religion, and gender.
GEB	6115	New Venture Formation	3	BA	MBA	PR: ACG 6025, MAR 6815, or CI.	An introductory entrepreneurship course. Students learn to develop venture ideas, evaluate venture opportunities and understand financial, marketing, and managerial needs of a venture.
GEB	6116	Business Plan Development	3	BA	MBA	PR: ACG 6025, MAR 6815, or CI.	Course is designed to enable students to prepare and present a business/venture plan. Students can prepare a plan for their own venture or a "client organization."
GEB	6117	Consulting Field Project	3	BA	MBA	PR: ACG 6025, MAR 6815 or CI.	Student will be teamed with an entrepreneurial organization and will learn to prepare a business plan, feasibility study, strategic marketing plan or some other work agreed upon by client, student and instructor. Third course in entrepreneurship Track.
GEB	6445	Social, Ethical, Legal Systems	2	BA	MBA	PR: GS.	A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.
GEB	6895	Integrated Business	3	BA	MBA	PR: CC.	Part I of advanced study of

		Applications I					business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level.
GEB	6896	Integrated Business Applications II	3	BA	MBA	PR: GEB 6895.	Part II of advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level.
GEB	6930	Selected Topics	3	BA	MBA	PR: GS.	The content and organization of this course will vary depending on student demand and faculty interest.
GEB	6949	Consulting Field Project	3	BA	GBA	PR: ACG 6025; MAR 6815 or CI.	Student will be teamed with an entrepreneurial organization and will learn to prepare a business plan, feasibility study, strategic marketing plan or some other work agreed upon by client, student and instructor. Third course in Entrepreneurship Track.
GEB	6971	Thesis: Master's	1-19	BA	MBA		
GEO	6058	Geographic Literature and History	3	AS	GPY	PR: Senior or graduate standing in geography, or CI.	The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.
GEO	6115	Advanced Field Techniques	3	AS	GPY	PR: GS in Geography or CI.	Field examination of one region. Students will complete field work in human and physical geography in a selected area.
GEO	6116	Perspectives on Environmental Thought	3	AS	GPY	PR: GEO 6058 or CI.	Analysis of the evolution of the major schools of environmental thought from antiquity to present-day green analysis, deep ecology, ecofeminism, and post-modern ecology.
GEO	6119	Geographical Techniques and Methodology	3	AS	GPY	PR: GS in Geography.	Analytic study of a technique or investigation into an aspect of methodology.
GEO	6166	Multivariate Statistical Analysis	3	AS	GPY	PR: GS in Geography or CI, GEO 3164C.	Examination of advanced statistical approaches used by geographers. Descriptive, spatial and inferential statistics and multi-variate analysis are highlighted.
GEO	6209C	Physical Geography Seminar	3	AS	GPY	PR: GS in Geography or CI	Analytic study of one or more topics from physical geography. Selected problems may include hydrology, physiography, meteorology, climatology, soils, vegetation, etc.
GEO	6215	Geomorphology Seminar	3	AS	GPY	PR: GEO 4372 or CI.	An advanced examination of geomorphic processes and landforms with an emphasis placed on concepts related to the formation and evolution of landscapes on a variety of scales.
GEO	6217	Karst Geomorphology	3	AS	GPY	PR: GS in Geography or CI.	An in-depth examination of the geomorphic aspects of karst landforms. The objectives, methods and results of karst geomorphic studies in which both

							field and laboratory analysis have been applied to geomorphic problems are reviewed.
GEO	6255	Weather, Climate and Society	3	AS	GPY		This course explores the societal impacts of weather as well as the human impact on weather and climate. Students lead and participate in discussions on topics such as weather hazards, extreme temperature and human physiology, historical civilization and extreme climate, economic value of forecasts, weather modification, urbanization and other land use change, anthropogenic aerosols, past and future climates.
GEO	6263	Soils Seminar	3	AS	GPY	PR: GEO 4372 or CI.	Examination of how earth systems influence soil formation and variation. Details analysis of soils climosequences, biosequences, toposequences, lithosequences, chronosequences, and anthrosequences.
GEO	6286	Advances in Water Resources	3	AS	GPY	PR: GS in Geography or CI.	Water resources policies are viewed from theoretical and practical perspectives focusing on management strategies in different physical and human environments.
GEO	6288	Hydrological Systems	3	AS	GPY	PR: GEO 4372 or CI.	A systematic approach to hydrology using the drainage basin as the fundamental unit of analysis is used to explore form and process, while modeling streamflows.
GEO	6345	Technological Hazards and Environmental Justice	3	AS	GPY		Examination of theories, debates, methods, and models that improve our understanding of human vulnerability to technological hazards and risks, with emphasis on issues of fairness and equity in the distribution and impact of hazards.
GEO	6347	Natural Hazards	3	AS	GPY	PR: GEO 4372 or CI.	Analysis of natural hazards integrating principles of physical, social, economic, political, and technical forces that affect extreme geophysical events.
GEO	6428	Seminar in Advanced Human Geography	3	AS	GPY	PR: GS in Geography, CI	Analytic study of a problem selected from aspects of the human landscape (urban, political, economic, population, settlement).
GEO	6475	Political Geography Seminar	3	AS	GPY	PR: GEO 4471 or CI.	Advanced investigation of geopolitical issues including: the human construction of territoriality, ethnic relations, the making of nations and states, the geopolitics of localities, and environmental policy making.
GEO	6545	Economic Geography Seminar	3	AS	GPY	PR: GEO 4502 or CI.	An intensive examination of selected issues in economic geography including: regional development and decline; spatial labor market trends; business locational analysis; and comparative economic policy.
GEO	6605	Contemporary Urban Issues	3	AS	GPY	PR: GEO 3602; GEO 4604; or CI.	Advanced survey of urban issues such as: industrial restructuring and urban development, inner-city

							ethnic relations, the geopolitics of urban governance, and urban culture.
GEO	6627	Site Feasibility Analysis	3	AS	GPY	PR: GS in Geography or CI.	A project-oriented geographic examination of urban real estate development and site feasibility practices. Hands-on course including concepts of real estate development patterns, urban growth, and site specific factors related to feasibility of specific developments.
GEO	6704	Advanced Transportation Geography	3	AS	GPY	PR: GEO 4114; GEO 4700; or CI.	Review of transportation issues and analysis, focusing on modeling and planning for flows of goods and people. Provides a hands-on approach to use of GIS for such analysis.
GEO	6908	Independent Study	1-19	AS	GPY	S/U.	Independent study in which students must have a contract with an instructor.
GEO	6918	Directed Research	1-19	AS	GPY	PR: GR. ML, CC. S/U.	
GEO	6944	Internship in Geography	3	AS	GPY	PR: GS in Geography, CC. S/U.	The internship in Geography is designed to provide students the opportunity to work in an appropriate governmental agency to gain practical field experience.
GEO	6947	Directed Teaching	1-6	AS	GPY	PR: GS, CI.	
GEO	6970	Research Methods in Geography	3	AS	GPY	PR: Graduate standing and consent of instructor.	This course stresses conducting geographic research within the scientific method. It includes both quantitative and qualitative research. Specific topics include sample design, data collection, oral presentations, written proposals and a thesis.
GEO	6971	Thesis: Master's	2-19	AS	GPY	PR: CC. S/U.	
GEO	7021	Doctoral Dissertation Preparation	3	AS	GPY	PR: Graduate standing and consent of instructor.	This course will assist students in developing dissertation topics; to think creatively about their topics; to draft a dissertation proposal and a dissertation outline. Students should register for either EVR or GEO 7921 depending on his/her subject area.
GEO	7606	Seminar in Urban Environments	3	AS	GPY	PR: Graduate standing and consent of instructor.	This seminar will explore topics in the study of urban environments such as global restructuring, race and ethnic relations, and the geopolitics of urban policy, by way of readings, discussion, and research.
GEO	7980	Doctoral Dissertation Research	2-15	AS	GPY	PR: Accepted into the GEP Doctoral program; GEO 7920 (Doctoral Dissertation Preparation) is completed by all students in the program that designate Geography as their subject area; and permission of the student's major	The dissertation is an original contribution to scholarship. The research is performed under the guidance of the major professor, which determines how many dissertation hours are completed (maximum 42 hours).

						professor.	
GER	5605	Goethe	3	AS	WLE		Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm, Meister, Westostlicher, Divan.
GER	5845	History of the German Language	3	AS	WLE		A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.
GER	6060	German for Reading	3	AS	WLE		Designed to provide a reading ability in German that will support research in other disciplines.
GER	6908	Independent Study	1-19	AS	WLE	PR: CC. S/U.	Independent study in which student must have a contract with an instructor.
GEW	5475	20th Century Literature to 1945	3	AS	WLE		A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.
GEW	5489	20th Century Literature: 1945 to Present	3	AS	WLE		Study of major trends in German literature since WW II with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.
GEW	5515	The Enlightenment	3	AS	WLE		Selected dramas and critical writings by Lessing, Wieland, Kant.
GEW	5545	Romanticism	3	AS	WLE		Jenaer circle and Heidelberger circle; the late romantic period, the writers between Classicism and Romanticism.
GEW	5555	Realism	3	AS	WLE		Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.
GEW	5606	Faust	3	AS	WLE		Sources, form, content, and literary significance of Urfaust and Faust.
GEW	5615	Schiller	3	AS	WLE		Selected dramas, philosophical, and aesthetical writings.
GEW	5934	Selected Topics	1-3	AS	WLE	PR: Upper-level or graduate standing.	Study of an author, movement or theme.
GEY	5620	Sociological Aspects Of Aging	3	AS	GEY		Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.
GEY	5630	Economics and Aging	3	AS	GEY		Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.
GEY	5642	Perspectives on Death and Dying	3	AS	GEY		Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.
GEY	6230	Principles of Health Care Risk	3	AS	GEY		This course provides an overview of the various aspects of health

		Management and Patient Safety					care risk management and how the risk varies by health care setting. Case studies and exercises provide students with "real world" situations they are likely to encounter.
GEY	6321	Gerontological Case Management	3	AS	GEY		This course examines the function of case management in meeting the care needs of the older adult. Elements of the case management process as well as ethical and legal issues in case management are covered. Not repeatable; not restricted to majors.
GEY	6325	Social Policy and Planning for Gerontologists	3	AS	GEY		This course is designed to provide an empirical and analytical base for understanding the major issues and trends involved in existing and proposed programs and services in the field of aging at local, state, and federal levels.
GEY	6326	Geriatric Interdisciplinary Team Training	3	AS	GEY		This course addresses the importance of interdisciplinary teams in today's health care and social service delivery systems for older adults. Issues include formation of teams, critical issues of aging, team care plans, and monitoring team functioning.
GEY	6340	Housing for the Elderly	3	AS	GEY		Major issues and aspects of conventional and planned housing for the elderly. Several field trips will be taken.
GEY	6402	Statistical and Qualitative Methods in Aging Research	3	AS	GEY		The major goal of this course is to deliver fundamental quantitative and qualitive research concepts that are useful in aging research. Other goals include hands-on exposure to secondary data analysis.
GEY	6450	Gerontological Research and Planning	3	AS	GEY	PR: CI.	Social research and planning methods in the field of gerontology. Directed to the consumers of research findings-person whose positions call for the ability to interpret, evaluate, and apply the findings produced by others.
GEY	6500	Seminar in Principles of Administration	3	AS	GEY		This course deals with management problems and practices in the administration of institutions in the field of aging. Consideration is given to federal and state legislation, the management of people, and fiscal management.
GEY	6600	Human Development and Aging	3	AS	GEY		Normal aging, change and basic psychological processes will be examined from a human development perspective. Emphasis will be on middle aged and older adults in relation to Life Cycle Changes and Counseling Approaches.
GEY	6607	Alzheimer's Disease Management	3	AS	GEY		This course will provide instruction on effective approaches for providing care to persons with Alzheimer's disease and related disorders, successful behavior

							management, and operating a dementia program. Not restricted to majors; not repeatable.
GEY	6613	Physical Change and Aging	3	AS	GEY		Common, normal and pathological physical changes associated with aging will be discussed as they affect behavior. Aspects of physical and mental illness and pharmacology with gerontological relevance will be surveyed.
GEY	6614	Psychopathology and Aging I	3	AS	GEY		Examination of the basic principles of abnormal psychopathology and basic concepts of psychopathology. Major theories about behavior and behavior change will be explored. Common gerontological mental health issues will be studied with particular focus upon adjustment to change and loss.
GEY	6615	Psychopathology and Aging II	3	AS	GEY		A continuation of Psychopathology and Aging I. It familiarizes the student with the psychopathology of aging. Major topics in the DSM-IV will be covered.
GEY	6616	Mental Health Assessment of Older Adults	3	AS	GEY	PR: GEY 6614 or CI.	Designed to provide the mental health counselor with a basic understanding of evaluation principles and the application of assessment approaches to older adults.
GEY	6617	Gerontological Counseling Theories and Practice	3	AS	GEY	PR: GEY 6614 or CI.	Examination of mental health treatment modalities and approaches to counseling with older adults. Personality theories and their relationship to counseling will be included emphasizing the development of a treatment plan through the integration of assessment data.
GEY	6618	Gerontological Group and Family Counseling	3	AS	GEY	PR: GEY 6614 or CI.	An advanced course directed at clinical practice with older adults. Appropriate techniques and skills will be integrated with models of psychotherapy, counseling, and personality development. Primary focus will be on intervention with groups, families, and couples.
GEY	6643	End of Life Care for Dementia Patients	3	AS	GEY		This course addresses progressive degenerative dementias: Alzheimer's disease, dementia with Lewy bodies, vascular and fronto-temporal dementia, and will address treatment, medical, ethical and legal questions. Not restricted to majors. Not repeatable.
GEY	6646	Gerontological Issues and Concepts	3	AS	GEY		This course presents the concepts, theories, and issues relevant to our aging society. Emphasis will be placed on generalized knowledge of the aging process, and implications for the individual, family, government, and society in general. Students will engage in spirited debate and gain important background that will prepare them for their other graduate work in Gerontology. Social Work, and related fields.

GEY	6647	Ethical and Legal Issues in Aging	3	AS	GEY		A consideration of major ethical and legal issues in aging and their implications for policies, priorities, and services.
GEY	6901	Directed Reading	1-6	AS	GEY	PR: CI. S/U.	A reading program of selected topics under the supervision of a faculty member.
GEY	6910	Directed Research	1-6	AS	GEY	PR: CI. S/U.	
GEY	6934	Special Topics In Gerontology	3	AS	GEY		Courses on topics such as preretirement, mental health, human services organization, and senior center administration.
GEY	6940	Field Placement	1-6	AS	GEY	PR: CI. S/U.	An internship in an agency or organization engaged in planning or administering programs for older people of in providing direct services for older people.
GEY	6941	Field Placement in Mental Health	1-6	AS	GEY	PR: GEY 6616, GEY 6617 and GEY 6618 or CI.	A highly structured supervised counseling experience providing mental health services to older adults.
GEY	6971	Thesis: Master's	2-19	AS	GEY	S/U.	
GEY	7404	Ph.D. Seminar in Grant Writing	3	AS	GEY		This course is designed as a seminar for doctoral students pursuing a research career requiring outside funding for their research. Skills practiced include literature search, preparation of budgets, detail of research methods, and critique of proposals.
GEY	7604	Biomedical Aging	3	AS	GEY		This course examines biomedical issues of aging, from the genetic to bodily systems levels. Emphasis is on cell structure, diseases of aging, cardiovascular, neurological, metabolic, and immune systems; diet/nutrition. Open to all majors; not repeatable.
GEY	7610	Psychological Issues of Aging: Interdisciplinary Perspective	3	AS	GEY		This course provides an overview of theory & research on individual human development and aging. Emphasis is on cognition, personality, psychopathology, stress and coping, care giving, and end-of-life issues. Open to all majors and not repeatable.
GEY	7623	Social and Health Issues in Aging	3	AS	GEY		This is a doctoral level class that addresses both social and health aspects of aging. Emphasis is on social and family context in aging, health policies, long term care, and racial and ethnic diversity. It is open to all majors and is not repeatable.
GEY	7649	Population Aging	3	AS	GEY		PhD students in Aging Studies and others will develop an understanding of the causes/consequences of aging & its effects on the populations of the U.S. and the world. Emphasis is on demographic, social, political, and economic processes. Not repeatable.
GEY	7902	Directed Individual Study in Aging	1-9	AS	GEY		An advanced reading program of selected topics related to

		Studies					interdisciplinary avenues of inquiry under the supervision of an aging studies faculty member. A written contract describing the requirements must be signed by the student and faculty member prior to registration.
GEY	7911	Directed Research in Aging Studies	1-3	AS	GEY		Research on selected topics in aging studies under the direct supervision of a member of the graduate faculty in aging studies.
GEY	7936	Proseminar in Aging Studies	1-2	AS	GEY		Reading and discussion of current topics, books, articles, and papers in aging studies. Examination of theory and research issues in the field of gerontology. Students develop their dissertation research topics, preliminary review of literature, and present their dissertation research proposals.
GEY	7980	Dissertation and Doctoral	2-12	AS	GEY	PR: Completion of Qualifying Examination, Admission to Candidacy.	
GIS	5049	GIS for Non-Majors	3	AS	GPY		An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.
GIS	5075	Global Positioning Systems	3	AS	GPY	PR: GIS 5049: GIS for Non-Majors or permission from the instructor.	Examination of the theory, operation and application of Global Positioning Systems (GPS).
GIS	6038C	Remote Sensing	3	AS	GPY	PR: GS in Geography or CI, GEO 4124C.	Study of digital image processing techniques. Topics include filtering techniques, geometric and radiometric normalization, and classification algorithms with emphasis on developing.
GIS	6039	Remote Sensing Seminar	3	AS	GPY	PR: GEO 5134C.	Analytic study of selected topics in remote sensing. Discussions around topics include data acquisition, sensor systems, multispectral and radar image analysis, change detection, and integration of remote sensing with GIS.
GIS	6100	Advanced Geographic Information Systems	3	AS	GPY	PR: GS in Geography or CI.	Spatial problem solving utilizing GIS mapping and statistical methods. The course is designed to give students hands-on experience in using computerized techniques for geographic analysis.
GIS	6103	Programming for GIS	3	AS	GPY	PR: GEO 6157 Advanced GIS or permission from instructor.	Examination of the concepts and techniques for customization of Geographical Information Systems (GIS) using object-oriented programming.
GIS	6112	Spatial Database Development	3	AS	GPY	PR: GEO 6157 Advanced GIS or permission from instructor.	Development and management of spatial data for use in a Geographic Information System (GIS), including creating, editing, modifying and validating spatial data.
GIS	6306	Environmental Applications of	3	AS	GPY	PR: GEO 6157	Examination of GIS applications in agriculture, forestry, wildlife

		Geographic Information Systems					management, biodiversity conservation, environmental assessment, water resources, and pollution modeling. Use of advanced GIS analysis techniques relevant to the specific applications.
GIS	6307	GIS Seminar	3	AS	GPY	PR: GIS 6100 or CI.	Analytic study of selected topics in GIS. The course will familiarize students with case studies involving GIS applications in environmental studies, coastal modeling, and urban planning.
GIS	6355	Water Resources Applications of GIS	3	AS	GPY	PR: GEO 6157 Advanced GIS or permission from instructor.	Examination of GIS applications in water resources, including watershed analysis, pollution modeling, and water resources modeling. Use of advanced GIS analysis techniques relevant to the specific applications.
GLY	5752	Geological Field Excursion	2	AS	GLY	PR: Senior standing in geology or CI.	Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.
GLY	5865	Statistical Models in Geology	3	AS	GLY	PR: STA 2023 or equivalent or CI.	Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.
GLY	5932	Selected Topics in Geology	1-4	AS	GLY	PR: Senior or advanced junior standing.	Each topic is a course under the direction of a faculty member. All areas of geology included.
GLY	6075	Greenhouse-Icehouse Earth	3	AS	GLY		This course is designed to investigate the differences between green- and icehouse climates through an examination of both the data employed to reconstruct past climates and the impact these changes have had on the Earth System.
GLY	6156	Geology of North America	2	AS	GLY	PR: GS or CI.	Regional structure, stratigraphy, and history of North America.
GLY	6246	General Geochemistry	3	AS	GLY	PR: One year college Chemistry, CI.	Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.
GLY	6248	Sedimentary Geochemistry	3	AS	GLY	PR: GLY 6246 or CI.	The geochemistry of fluid-rock interaction with emphasis on the diagenesis of sedimentary material.
GLY	6285C	Analytical Techniques in Geology	3	AS	GLY	PR: One year college Chemistry, GLY 4310 or CI.	Use and application of analytical methods including X-ray, atomic absorption, ICP/MS, TEM, SEM, and other geochemical techniques. Interpretation and statistical analysis of the data acquired. Lec/Lab.
GLY	6345	Sedimentary Petrography	3	AS	GLY	PR: GS or CI.	Classification, petrographic description and interpretation of sedimentary rocks including

							depositional environment and diagnoses. Lec./Lab.
GLY	6395C	Topics in Igneous and Metamorphic Petrology	2-4	AS	GLY	PR: GLY 3311C or equivalent, or CI.	Detailed study of selected igneous and/or metamorphic rock associations. Targeted sites will vary each semester. Modern methods of geochemical and mineralogical analysis (EPMA, ICP/DCP, XRD) will be employed. May be repeated up to 12 hrs. Lec/Lab.
GLY	6424	Global Tectonics	2	AS	GLY	PR: GS or CI	Development of the global tectonic hypothesis, global tectonic theory, and application of the theory in selected regions of the earth.
GLY	6475C	Principles of Applied Geophysics	4	AS	GLY	PR: One year of Physics or CI.	Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to resource exploration, site investigation, and mineral deposits. Lec/Lab. Field trips.
GLY	6492	Hydrogeology Internship Project	1-3	AS	GLY	PR: Enrollment in Hydrogeology Internship program; 24 hours of approved graduate courses.	Internship project in applied hydrogeology. Required for hydrogeology-internship MS program (minimum 3 hours).
GLY	6526	Advanced Stratigraphy	3	AS	GLY	PR: OCG 6656 or equiv. or CI.	Theory and practice of biostratigraphy of major microfossil groups. Emphasis on selected techniques of correlation. Detailed consideration of stratigraphic zonations, problems and limitations. Readings of current literature.
GLY	6573	Fluvial Hydrology and Geomorphology	3	AS	GLY	PR: MAC 2311 or the equivalent.	The course covers the mechanics of open channel flows, primarily to understand the potential energy available to do work, and the geomorphic responses to work, including channel initiation, sediment transport, and channel adjustment.
GLY	6575C	Coastal Sedimentation	3	AS	GLY	PR: GLY 4555 or equiv. or CI.	Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries, and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec/Lab. Field trips.
GLY	6655	Topics in Paleobiology	3	AS	GLY	PR: GLY 3610 equiv., PCB 4674 or equiv. or CI.	Theory and practice of modern paleobiology including, consideration of diversity and extinction patterns, documentation and causes of trends, patterns, and causes of speciation, functional analysis and adaptation, tempo and mode in evolution, and the ecological context of evolutionary change.
GLY	6739	Selected Topics in Geology	1-4	AS	GLY	PR: CI.	Each topic is a course directed by a faculty member. All areas of geology are included.
GLY	6824	Ecohydrology	3	AS	GLY	PR: MAC 2311 or the equivalent.	This course covers hydrological processes along the atmosphere-plant-soil continuum and the ways in which hydrological processes control ecological structure and function.

GLY	6827C	Advanced Hydrogeology	4	AS	GLY	PR: GLY 4822, one year college calculus or CI.	Flow systems, analytical and numerical solutions to ground-water flow problems. Emphasis on the theoretical aspects of ground-water flow systems and their interaction with the geologic framework. Lec/Lab. Field trips.
GLY	6828	Ground-Water Geochemistry	3	AS	GLY	PR: One year of college Chemistry, GLY 4822, GLY 6246, or CI.	Chemical behavior of ground water. Includes interaction of water with aquifer materials, chemical effects of waste disposal, use of chemical tracers, and transport of hazardous chemicals. Methods of sampling and data interpretation are emphasized. Lec.
GLY	6905	Independent Study	1-19	AS	GLY	PR: CC. S/U.	Independent study in which student must have a contract with an instructor.
GLY	6910	Directed Research	1-19	AS	GLY	PR: GR. ML, CC. S/U.	
GLY	6931	Graduate Seminar	1	AS	GLY	PR: CC. S/U.	
GLY	6933	Advanced Topics in Geology	2	AS	GLY	PR: GS.	Current topics in Geology.
GLY	6971	Thesis: Master's	2-19	AS	GLY	S/U.	
GLY	7912	Directed Research	1-30	AS	GLY	PR: GR. Ph.D. Level. S/U.	
GLY	7980	Dissertation: Doctoral	2-19	AS	GLY	PR: Admission to Candidacy. S/U.	
GMS	6001	Foundation in Biomedical Sciences	4-8	ME	MSG	PR: B.S./B.A. and admission into a Graduate Program at the University of South Florida. Instructor permission required for those not meeting these prerequisites.	A multidisciplinary course in the cellular, molecular, biochemical, and genetic basis of biomedical sciences, designed as a comprehensive first semester course for most incoming biomedical sciences graduate students.
GMS	6002	Success Skills in Biomedical Sciences	1	ME	MSG	PR: GMS 6091.	This course will introduce the beginning gradauate student the tasks and skills necessary for success in the Biomedical Sciences PhD program, with a emphasis on ethical principles involved.
GMS	6020	Neuroscience	5-6	ME	MSG	PR: CI.	An introduction into basic structure and function of the central nervous system. Emphasis is on an integrated approach that focuses on several levels of organization from molecular to cellular, from neural systems to behavior.
GMS	6056	Cancer Research Techniques	4	ME	MSG	PR: CI or CC.	An introduction to modern core research facilities and methodologies used in cancer research. Lec., Lab., Dem. Department Approval Required.
GMS	6065	Advances in Cancer Research	2	ME	MSG	PR: CI.	Participants will read and orally present current breaking research. They will gain experience in critically evaluating research reports.
GMS	6066	Molecular Medicine	11	ME	MSG		A comprehensive introduction to molecular medicine with an emphasis on the integration of

							those aspects of biochemistry, cell biology and genetics that have immediate relevance to the understanding of various disease processes and their treatment.
GMS	6080	Cancer Biology Lab Rotations	1-3	ME	MSG	PR: CI.	
GMS	6091	Responsible Conduct in Research	1	ME	MSG		This course will introduce the beginning graduate to the principles of responsible conduct in research, and how decisions made on a daily basis in the life of a scientist depend on these core principles.
GMS	6100	Medical Microbiology	3	ME	MSG		Lecture, directed literature readings, and discussion form the basis to instuct graduate and advanced undergraduate students in Medical Microbiology. The course will now cover pathobiology and molecular biology of medically important bacteria.
GMS	6101	Molecular and Cellular Immunology	3-4	ME	MSG	PR: Gen Biology, Organic Chem, Genetic(rec), Biochemistry(rec), Intro Immunology(rec).	Lecture, directed literature readings, and discussion form the basis to instruct graduate and advanced undergraduate students in development, function, regulation, pathobiology, and conduct of research in medically relevant immunity.
GMS	6107	Advances in Virology	2	ME	MSG		Lecture, directed literature readings, and discussion form the basis to instruct graduate and advanced undergraduate students in Medical Virology. The course will now cover pathobiology and molecular biology of medically important viruses.
GMS	6200C	Biochemistry, Molecular and Cellular Biology	5	ME	MSG	PR: Admission to graduate program in medical sciences or CC.	The overall objectives of GMS 6200 are to provide students with a solid foundation of biochemical principles and a fundamental understanding of structures and processes of living systems at the molecular and cellular levels.
GMS	6210	Basic Medical Biochemistry	3	ME	MSG	PR: 1 year Biology; 1 year Chemistry.	The course examines fundamental aspects of biochemistry critical to understanding the chemical and cellular mechanisms relevant to health and disease including intermediary metabolism, enzymology and storage and transfer of genetic information.
GMS	6320	Basic Medical Histology	3	ME	MSG	PR: 1 year Biology; 1 year Chemistry.	The course introduces the principles of histology, how they govern the structure and function of cell types and the organization of the tissues involved in organ architecture and function and how staining techniques identify cells at the molecular level.
GMS	6334	Pathobiology of Human Cancer	3	ME	MSG	PR: Pathology Departmental Approval.	Using tissue-related oncology topics that complement molecular biology & experimental therapeutics, this graduate course will provide the morphologic and biologic basis of human cancer. This course is not restricted and is repeatable for 3 credits.

GMS	6400C	Core Physiology	4-6	ME	MSG	PR: B.S. and permission of instructor.	This course is designed to give the beginning graduate student an insight into the basic functions of the human body. This will be approached from molecular, cellular, organ system and total organism aspects.
GMS	6431	Cell Physiology	4	ME	MSG		Examine organelles and macromolecular complexes of eukaryotic cells with respect to structural and functional roles in major cellular activities. Emphasizes on experimental basis for factual knowledge in modern cell biology, discusses the validity of current concepts in relation to the regulation of cellular functions. Suitable for first and second year graduate students.
GMS	6461	Systems Physiology and Pharmacology	5	ME	MSG	PR: GMS 6001 OR equivalent Cell and Molecular Biology course OR Instructor approval; CR: None required - recommend Graduate Neuroscience (GMS 6020)	This course will serve as an introduction into human physiology and pharmacology, emphasizing systemic function. The course is not restricted to majors, and is not repeatable.
GMS	6503	Methods in Pharmacology	2-6	ME	MSG		This course is designed to familiarize students with selected research methods in pharmacology by participation in laboratory exercises designed and supervised by the faculty.
GMS	6512	Ion Channel Pharmacology and Disease	3	ME	MSG		This course is designed to familiarize students with the role of ion channels in the genesis of pathophysiological conditions and how these proteins may be targeted for therapeutic intervention.
GMS	6513	Principles of Pharmacology and Therapeutics	3	ME	MSG		This course is designed to familiarize students with basic principles of pharmacology and therapeutics. Students will be exposed to classical concepts of pharmacology such as drug-receptor interactions as well as modern techniques such as gene therapy.
GMS	6514	Instructional Skills in Pharmacology	1	ME	MSG		Students are given practical experience in current teaching techniques including an understanding the purpose of lecture, small groups and evaluation. There is direct faculty supervision and critique following direct classroom experience.
GMS	6541	Pharmacology for Health Professionals	4	ME	MSG	CR: Physiology.	The basic principles of pharmacology (pharmacodynamics & pharmacokinetics) will be presented along with major drug classes (analgesics, antibiotics, cardiovascular drugs, central nervous system drugs.
GMS	6601	Methods of Electron Microscopy in Medical Research	3	ME	MSG	PR: GMS 6608 or CC.	This lecture and laboratory course deals with theoretical and technical issues regarding the use of the

							electron microscope in biomedical research.
GMS	6602	Neural Correlates of Behavior	3	ME	MSG	PR: CC.	This course focuses on the organization and function of nervous system structures that control and regulate various aspects of somatic and visceral motor behavior.
GMS	6604	Human Embryology	3	ME	MSG	PR: CC.	This course deals with the structural and functional development of the human from conception to birth.
GMS	6608	Advanced Microscopic Anatomy	3-6	ME	MSG	PR: CC.	This lecture and laboratory course examines the human organism at the microscopic level, focusing on cellular morphology and the histological organization of tissues and organ systems.
GMS	6609	Advanced Human Gross Anatomy	6-12	ME	MSG	PR: CC.	This lecture and laboratory course focuses on the anatomical relationships between various structures that comprise the human body.
GMS	6610	Advanced Neuroanatomy	3-6	ME	MSG	PR: Admission to Ph.D. Program in Medical Sciences and Anatomy Department.	This lecture and laboratory course deals with the structure and function of the human nervous system. The course is organized using both regional and systemic approaches.
GMS	6611	Introduction to Anatomical Research	1-3	ME	MSG	PR: Admission to Ph.D. Program in Medical Sciences and Anatomy Department.	This course consists of scheduled rotations through the laboratory of at least three members of the anatomy department faculty.
GMS	6612	Supervised Teaching in Human Anatomy	1-3	ME	MSG	PR: GSM 6608, 6609, or 6610 and acceptance into the Anatomy Dept.	This course deals with the philosophy and mechanics of teaching. The course also involves supervised, practical experience in the various aspects of teaching in both the class-room and laboratory.
GMS	6614	Basic Medical Anatomy	3	ME	MSG	PR: 1 year Biology; 1 year Chemistry.	The course focuses on a basic introduction to human anatomy and how anatomical concepts relate to the organization of the body at a macroscopic level for each organ and how each of the organs and organ systems function in their role in normal homeostasis.
GMS	6707	Basic Medical Neuroscience	3	ME	MSG	PR: 1 year Biology; 1 year Chemistry.	The course focuses on the function of the human nervous system and examines nerve cell biology and how cells are organized into functional systems. Structure/function relationships are emphasized including examples of abnormal cell function in disease.
GMS	6735	Neuropharmacology	3	ME	MSG		This course will familiarize students with information on the biochemical basis of neural regulatory systems in the brain and the application of the latest approaches to the study of neurotransmitters and drug action in the nervous system.
GMS	6821	Grantmanship I	1	ME	MSG	PR: Postdoctoral Status; CR: Permission of Instructor.	Introduction to basic skills for writing successful, peer-reviewed external grant proposals, especially to the NIH for patient-

							oriented research and mentored career development grants, for postdoctoral-level academic health research career development.
GMS	6822	Grantmanship II	2	ME	MSG	PR: GMS 6821.	This course is the second in a two-course series to complete instruction in the skills and techniques necessary for writing successful NIH grant proposals whose primary focus is patient-oriented/translational career development or research grants.
GMS	6840	Cultural and Diversity Issues in Clinical Research	2	ME	MSG	PR: Postdoctoral status, doctoral student in Medical Sciences. CR: CI.	Promotes understanding of reasons for including the broadest populations possible in clinical research studies in terms of culture, race, ethnicity, gender, age, literacy, sexual orientation, socioeconomic status. Instructor permission, not repeatable.
GMS	6841	Fundamentals of Translational Research	1	ME	MSG	PR: Postdoctoral status, doctoral student in Medical Sciences. CR: CI.	Introduction to the interface between clinical and basic research. How to include basic research hypotheses in the design of clinical studies to advance knowledge in applying bsic/clinical research to patient care. Instructor permission. Not repeatable.
GMS	6842	Building a Patient-Oriented Research Center	2	ME	MSG	PR: Postdoctoral Status, CI.	Introduction to the important characteristics of academic patient-oriented faculty in a colloquium format to encourage interactions and sharing of information between faculty and students. 2 semesters, 1 credit each semester=2 cr. Instructor permission.
GMS	6843	Scientific Communication	2	ME	MSG	PR: Postdoctoral status, doctoral student in Medical Sciences. CR: CI.	Course teaches principles to improve scientific communication. Provides practical experience on preparing abstracts, presenting research to professionals/the public and how to publish in peer-reviewed journals. Instructor permission. Not repeatable.
GMS	6844	Principles of Patient-Oriented Research	1	ME	MSG	PR: Postdoctoral Status. CR: CI.	Introduction to the Scholars in Patient-Oriented Research (SPOR) Program. Assists in identifying important clinical and translational research questions, approaches, sources of support and regulatory issues. Instructor permission. Not repeatable.
GMS	6870	Medical Ethics and Humanities: Tools & Foundations	3	ME	MSG		Terminology, historical perspectives, ethical principles and dilemmas, and case studies. Examination of aspects of the human journey and various voices or perspectives thorough fiction, essays, history, art, poetry, theater, and film.
GMS	6875	Ethical and Regulatory Aspects of Clinical Research	3	ME	MSG	PR: Postdoctoral Status. CR: CI.	This course addresses ethical and regulatory aspects of clinical research, specifically in relation to biomedical research that is patient-oriented. Instructor permission is required. The course is 3 credits and is not repeatable.
GMS	6876	Current Topics in	1	ME	MSG	PR: Admission to	A Journal Club in which graduate

		Molecular Medicine				Graduate Program in Biomedical Sciences or CC.	students and faculty present recent research publications of importance to molecular medicine.
GMS	6890	Medicine and the Arts	3	ME	MSG		Study opportunities in metropolitan cities in which students engage in one week of intensive study. (Medical Centers, Museums, Theatre)
GMS	6891	Medicine and the Movies	3	ME	MSG		In-depth explorations of the ways in which film presents and illuminates ethical dilemmas/other topics in modern medicine. Students evaluate film stories critically so that exaggerations, distortions, and accuracies can be considered and discussed.
GMS	6902	Bioethics and Medical Humanities Independent Study	3	ME	MSG	PR: Approval from program director/advisor.	Develop with faculty advisor an individual project with the goal of in-depth study in the focus area.
GMS	6931	Directed Research in Cancer Biology	1-12	ME	MSG	PR: CI.	Student research will be performed under the guidance of Ph.D. prior to formation of dissertation committee.
GMS	6932	Selected Topics in Cancer Biology	1-4	ME	MSG	PR: Permission of department.	Provides in-depth study of a single aspect of cancer biology. Topics offered vary by semester.
GMS	6941	Bioethics and Medical Humanities Internship	3	ME	MSG	PR: Approval from advisor/program director.	Supervised Field experience in related activities/organizations relating to bioethics and/or medical humanities.
GMS	7910	Directed Research	1-19	ME	MSG	PR: Gr. Ph.D. level.	
GMS	7930	Selected Topics	1-3	ME	MSG	PR: CC.	
GMS	7939	Graduate Seminar	1	ME	MSG	PR: CC.	
GMS	7980	Dissertation: Doctoral	2-19	ME	MSG	PR: Admission to Candidacy.	S/U
GRW	5905	Directed Reading	1-4	AS	WLE	Departmental approval required.	
GRW	5934	Selected Topics	1-4	AS	WLE	Available to majors and non-majors.	Study of an author, movement or theme.
HIS	6112	Analysis of Historical Knowledge	4	AS	HTY	PR: GS, CI.	A study of history as a form of knowledge with emphasis on explanatory models and the relationships of social science theory to the problems of historical analysis.
HIS	6908	Independent Study	1-19	AS	HTY	PR: CI. S/U.	Independent study in which students must have a contract with an instructor.
HIS	6914	Directed Research	1-19	AS	HTY	PR: CI. ML. S/U.	
HIS	6925	Colloquium in History	4	AS	HTY	PR: CI.	Readings and discussions organized around an in-depth examination of selected topics within the fields. Emphasis of the course is on the review of historiographical, methodological, and interpretative advances as they affect the topics under study.
HIS	6939	Seminar in History	4	AS	HTY	PR: CI.	Research in selected topics within the fields selected by the instructor.
HIS	6971	Thesis: Master's	2-19	AS	HTY	PR: CI. Z/U.	

HSC	5037	Professional Foundations of Health Education	1	PH	CFH		The study of the practice of health education in various settings, and selected historical, cultural, philosophical, professional, and ethical issues in the practice of education.
HSC	6054	Design and Analysis of Experiments for Health Researchers	3	PH	EPB	PR: PHC 6051, PHC 6701 or CI.	An interdiscipline overview of design and analysis of experimental and observational studies. Emphasis on applications in biological, clinical and health-related fields. Computer software used.
HSC	6055	Survival Analysis	3	PH	EPB	PR: PHC 6051, PHC 6701 or CI.	A study of statistical methods for analyzing censored life time data with applications in health sciences.
HSC	6056	Survey Sampling Methods in Health Sciences	3	PH	EPB	PR: PHC 6050, PHC 6701 or CI.	An interdisciplinary overview of survey techniques with applications in health sciences. Discussions on questionnaire design, measurement error, data collection modes, data management, use of computer software and statistical analysis.
HSC	6556	Pathobiology of Human Disease I	3	PH	EOH	PR: CI.	A basic study of broad pathobiological areas of biological injury, genetic and inborn errors of metabolism, and host-parasite relationships. In addition, the pathobiology of human disease is closely related to general biology in order to provide a strong foundation for the public health student.
HSC	6557	Pathobiology of Human Disease II	3	PH	EOH	PR: HSC 6556 and CI.	Overview of the distinct pathogenesis and etiology and selected acute and chronic diseases and their preventive aspects and impacts on the health care system. Provides basic knowledge of disease and illness patterns and their relationship to health planning.
HSC	6641	Prevention and Control of Unintentional Injuries	3	PH	CFH	PR: CI.	Prepares students to critically analyze the nature, magnitude and intervention strategies of unintentional injuries and propose new directions for prevention and control. Not restricted to public health majors.
HSC	7285	Accreditation/ Licensed Health Care Organization	3	FM	FMH		This course will examine and discuss voluntary accreditation and governmental licensure: the principal formal methods of holding health care organizations accountable for the quality of service they provide. Emphasis is on current status and requirements of accrediting and licensing authorities.
HUM	6276	Cinematic Art	3	AS	HUM	PR: Graduate Standing.	Films studied will be organized around a director, a nation, a movement, or a period. Cinema will be treated as a collaborative medium best approached from an interdisciplinary perspective, integrating visual, narrative, dramatic, and musical analysis.

HUM	6392	Teaching Practicum in Humanities	1-6	AS	HUM		Required of Teaching Assistants of Humanities courses. Workshops, meetings, and individual conferences treat topics related to teaching interdisciplinary courses focusing on the critical study of literature, music, and the arts. Credits do not count toward the Master of Liberal Arts degree.
HUM	6412	Studies in the Humanities of India	3	AS	HUM	GS.	Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.
HUM	6414	Studies in the Humanities of China	3	AS	HUM	GS.	Examples from the arts and letters of China; their relationship to Taoism, Confucianism, and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.
HUM	6415	Japanese Arts and Letters	3	AS	HUM		Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on 20th century Japanese arts and letters.
HUM	6453	Studies in American Arts and Letters I	3	AS	HUM	GS.	Study of selected works dealing with the development of cultural patterns on the western frontiers and their effects on aesthetic judgment. From 1790 to 1890.
HUM	6456	Studies in Latin American Arts and Letters	3	AS	HUM	GS.	Analysis of selected Latin American works of art in their cultural context.
HUM	6465	Studies in American Arts and Letters II	3	AS	HUM		Examples from the arts and letters of the U.S.; analyses of their relationships to the concepts of progress and aesthetic judgment. From 1890 to present.
HUM	6475	Studies in Contemporary Arts and Letters	3	AS	HUM	GS.	Concentration on major artists and recent trends.
HUM	6493	Studies in Classical Arts and Letters	3	AS	HUM	GS.	Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions, and philosophies. Classical Greek influences on later cultures.
HUM	6494	Studies in Medieval Arts and Letters	3	AS	HUM	GS.	Studies in medieval philosophies, visual arts, music, literature, and architecture and their interrelationships.
HUM	6495	Studies in Renaissance Arts and Letters	3	AS	HUM	GS.	Masterpieces and major artists of the Renaissance in Continental Europe and England.
HUM	6496	Studies in Enlightenment Arts and Letters	3	AS	HUM	GS.	Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.
HUM	6497	Studies in Nineteenth Century Arts and Letters	3	AS	HUM	GS.	Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.
HUM	6801	Theories and Methods of Cultural Studies	3	AS	HUM	PR: GS.	This course examines the relationship between the arts and society by introducing various approaches to the study of

							literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and humanities.
HUM	6815	Research in Humanities	3	AS	HUM		A course emphasizing the practical aspects of research in the humanities including analyzing primary sources, assembling a bibliography, synthesizing secondary sources, and defining an argument. Topic varies.
HUM	6870	Teaching Practicum in Humanities	1-3	AS	HUM	PR: GS.	Required for Teaching Assistants of Humanities courses. Workshops, metings, and individual conferences treat topics related to teaching interdisciplinary courses focusing on the critical study of literature, music, and the arts. Credits do not count toward the MLA degree.
HUM	6909	Independent Study	1-19	AS	HUM	S/U.	Independent study in which student must have a contract with an instructor.
HUM	6915	Directed Research	1-19	AS	HUM	PR: CI. S/U.	
HUM	6939	Selected Topics in Humanities	1-3	AS	HUM	GS.	Each topic is a course of study in a subject not covered by a regular course.
HUM	6940	Internship in Humanities	1-3	AS	HUM	PR: GS.	A structured, out-of-class learning experience providing firs-hand, practical training in Humanities-related professional careers in the community.
HUM	6971	Thesis: Masters	2-19	AS	HUM		In consultation with an advisor, the student plans, organizes, and writes a thesis on a topic in interdisciplinary arts and ideas.
IDH	5956	Honors Graduate Project	3	HC	HON	PR: Senior Status and permission of Honors College.	Advanced Honors Project. Repeatable up to 12 hours.
IDH	5975	Honors Thesis	3	HC	HON	PR: Senior Status and permission of Honors College.	Advanced Honors Thesis. Repeatable up to 12 hours.
IDS	5177	The Atelier, Its Management and History	3	VP	ART		This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atalier and its management.
IDS	5178	Problems in Museum Studies	3	VP	ART	PR: Art Advisor's Approval	This class is designed as both an academic and theoretical course to introduce students to the museum profession and develop critical thinking skills required to solve problems in the rapidly changing typography of museums. Students will develop managerial and administrative skills as they meet with and discuss the job descriptions of curators, educators, collection managers, marketing professionals, exhibit designers, registrars, and fundraisers.
IDS	6948	Gallery and Museum Internship	2-6	VP	ART		The 6 credit hours internship program conducted in various area museums is a professional program designed to give students the opportunity to engage in a

							comprehensive study of the contemporary museum.
INP	6057	Industrial Psychology	3	AS	PSY	PR: GS.	An introduction to the major areas of Industrial-Organization Psychology, including topics on selection and placement, training, criterion development and performance appraisal, job satisfaction and motivation, and organizational theory and structure.
INP	6935	Topics in Industrial-Organizational Psychology	3	AS	PSY	PR: CI	Courses on topics such as industrial psychology, evaluation of performance in industry, and human factors.
INP	7937	Graduate Seminar in Industrial-Organizational Psychology	1-3	AS	PSY	PR: CI	Seminars on topics, such as industrial psychology, evaluation of performance in industry, and human factors.
INR	5012	Globalization	3	AS	INT		Examination of globalization's impact on international relations, including literature from political science, anthropology, geography, sociology, and economics that impacts the study of the nation-state system and power. Open to majors and non-majors.
INR	5086	Issues in International Relations	3	AS	POL	Sr./GS.	Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.
INR	6007	Seminar in International Relations	3	AS	POL	Sr./GS.	Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues.
INR	6036	Seminar in International Political Economy	3	AS	POL	PR: POS 6736 or CI.	Advanced study of the development and politics of the international economic system focusing on theoretical and empirical analysis of cooperation and conflict in trade, aid, and investment relationships.
INR	6107	American Foreign Policy	3	AS	POL	GS.	Objectives, formulation, and execution of foreign policy; critical issues and problems confronting the United States. Study of various conceptual, methodological, and theoretical approaches.
INR	6690	Research Seminar in Globalization	3	AS	INT	PR: INR 5012.	Examination and presentation of research from multiple disciplines that address a wide-range of issues related to globalization, including those that concern governance and human development. Seminar format. Open to majors and non-majors.
ISC	7930	Selected Topics in Interdisciplinary Science	1-4	AS	IAS		Interdisciplinary studies will cell and molecular biology perspective.
ISM	6021	Management Information Systems	2	BA	QMB		An introduction to the fundamentals of information systems including an examination of information technology terminology and concepts, alternative methodologies for developing information systems,

							and the application and impact of information technology in contemporary organizations.
ISM	6123	Systems Analysis and Design	3	BA	QMB	PR: ISM 6021 or equiv.; COBOL I or other approved language, CC.	This course includes the foundations and methodologies for analysis of existing systems; the design, development, and implementation of new systems.
ISM	6124	Advanced Systems Analysis and Design	3	BA	QMB		This course covers advanced topics of information systems development. Students learn to manage and perform activities throughout the information systems development life cycle. State-of-the-art system development processes, methods, and tools are presented.
ISM	6125	Software Architecture	3	BA	QMB	PR: ISM 6124	Software architecture has emerged as an explicit field of study for software engineering practitioners and researchers. In this course, we will investigate the growing literature on software architecture and understand the application of software concepts to the development of information systems.
ISM	6145	Seminar on Software Testing	3	BA	QMB	PR: ISM 6124 or an introductory course in Software Engineering.	This course will survey and analyze the best practices in industrial testing groups and explore new ideas for improving the testing process. Students gain practical experience with both functional (black box) and structural (clear box) testing methods.
ISM	6155	Enterprise Information Systems Management	3	BA	QMB	PR: ISM 6124, ISM 6218.	Development of enterprise transaction processing applications using procedural or object oriented programming languages, relational database management, database sharing, CASE methodology and project management techniques. Students will work in groups on semester projects.
ISM	6201	Data Warehousing	3	BA	QMB	PR: As a prerequisite, students should have had at least two courses covering relational database systems (usually including ISM 6218: Advanced Database Systems), or significant work experience.	This course is designed for the MS graduate student and interested MBA students. The course covers the rapidly emerging data warehousing and data mining technologies that are likely to play a strategic role in business organizations.
ISM	6217	Database Administration	3	BA	QMB	PR: ISM 6123 or equiv., CC.	Advanced principles of Database Administration. Database Organization Models. Disaster Planning for Database Files.
ISM	6218	Advanced Database Management	3	BA	QMB		Advanced database design and management. Review of Codd's rules for relational databases. Database control issues. Object-oriented database analysis and design. Distributed database design and use of parallel systems. Expert and intelligent

							databases. OLAP databases.
ISM	6221	Data Mining	3	BA	QMB	PR: Students should have had a database course and a statistics course.	This course is designed for the MS in Information Systems graduate student and interested MBA students. The course covers the rapidly evolving data mining techniques that are becoming critical for customer relationship management and other applications
ISM	6225	Distributed Information Systems	3	BA	QMB	PR: ISM 6123, CC.	Analysis, design, implementation, and management of distributed information systems and networks.
ISM	6305	Managing the Information System Function	3	BA	QMB	PR: ISM 6021 or equiv., CC.	An advanced study of information system management including system planning, project selection and management, and organizational information management policies.
ISM	6360	Project Managament	3	BA	QMB	PR: ISM 6021.	The objective of this course is to become familiar with fundamental issues for managing project management and to develop an understanding of the overall processes of dealing with competing demands in information technology environments.
ISM	6405	Decision Support Systems Applications	3	BA	QMB	PR: FIN 6406, QMB 6305, QMB 6603	Study of the principles of decision making and the human computer alliance with hands-on computer-assisted decision making for an organizational environment. Case studies and/or management games using micro-computers.
ISM	6442	International Aspects of Information Science	3	BA	QMB	PR: ISM 6021	Role of managers and information technology professionals in global business organizations and in deployinh information systems to enable global operations.
ISM	6480	Electronic Commerce	3	BA	QMB	PR: ISM 5217	This course provides a broad-based introduction to different facets of e-commerce, from both technical and managerial perspectives. Designing new e-commerce businesses as well as redesigning existing business to take advantage of e-commerce are examined. Specifically the course covers three areas: (1) e-commerce concepts, (2) e-commerce applications, and (3) e-commerce tecjnologies.
ISM	6905	Independent Study	1-6	BA	QMB	PR: CC. S/U.	Independent Study as directed by designated faculty.
ISM	6930	Selected Topics in MIS	1-6	BA	QMB	PR: CC.	Selected topics in MIS.
ISM	6971	Thesis: Master's	2-6	BA	QMB		Students may select the thesis option in order to complete the Master of Science in the Management Information Systems (MS/MIS) program. Faculty permission is required to register for MS Thesis credit. Six credits are the maximum number of credits allowed for MS Thesis credit.
ISM	7120	Information Requirements Management	3	BA	QMB	PR: CC.	Understanding the theoretical foundation for analyzing problem situations and determining

							information technology requirements; tools and skill requirements of the systems manager; and methods of managing computer-based information systems.
ISM	7140C	Systems Development Methodologies	3	BA	QMB	PR: CC.	Realistic in-depth application perspective of the tools and techniques of systems development.
ISM	7231	File Access Methods and Systems Software for Application Development	3	BA	QMB	PR: Departmental Approval.	An information system, viewed as a user application process interacting with data in a particular hardware/software environment, is analyzed to provide insights into various file access alternatives and advantages.
ISM	7422	Business Applications or Artificial Intelligence and Expert Systems	3	BA	QMB	PR: Departmental Approval.	Theory, concepts, methodologies, current trends, potential, interrelationships of artificial intelligence, expert systems, and decision process.
ISM	7441C	Computer-Based Applications in Operations Management	3	BA	QMB	PR: Departmental Approval.	Introduction to applications of computer technology in manufacturing and operations management. Focus on the design and implementation of applications to support the operations manager.
ISM	7905	Independent Study	1-6	BA	QMB	PR: CC. S/U.	Independent study in which student must have a contract with an instructor.
ISM	7910	MIS Research Seminar I	3	BA	QMB	PR: Departmental Approval.	Introduction to the MIS literature as it has developed over the past 30 years. Primary focus on the research literature. Other important writings will also be covered.
ISM	7911	MIS Research Seminar II	3	BA	QMB	PR:ISM7910 ISM 7910.	An examination of recently published empirical research in MIS and related disciplines, focusing on the development of a sound theoretical foundation for hypotheses, selection of appropriate design and statistical techniques, and evaluation of the results.
ISM	7912	Seminar on Behavioral IS Research	3	BA	QMB	PR: ISM 7910	This course is team taught by IS/DS faculty with research interests in behavioral and organizational fields. The seminar structure of the course allows flexibility of current research topics and opportunities for significant student faculty interaction. Students will achieve a broad understanding of the research areas and methods associated with behavioral and organizational IS research.
ISM	7930	Selected Topics in MIS	1-3	BA	QMB	PR: CC.	
ISM	7931	Directed Research	1-6	BA	QMB	PR: Ph.D. level, CC. S/U.	
ISM	7980	Dissertation	2-21	BA	QMB	PR: CC.	
ISS	5934	Selected Topics	1-3	AS	AFA	PR: CI plus senior standing or graduate	Interdisciplinary studies with course content dependent on

						status.	student demand and instructor's interest.
ISS	6184	Development Ethics: Principles and Practice	3	AS	ISS		Overviews the ethical problems of development, as well as presents the ways in which the problems of development may be investigated. Students are taught qualitative methodological techniques and apply these techniques in fieldwork projects. Open to all graduate students.
ISS	6900	Directed Reading	1-3	AS	ISS	PR: CI and GS or senior standing.	A supervised program of intensive reading of interdisciplinary materials of specific interest.
ISS	6910	Directed Research	1-19	AS	ISS		A supervised program of intensive reading of interdisciplinary materials of specific interest.
ISS	6934	Selected Topics	1-3	AS	ISS	PR: CI and senior standing or GS.	Interdisciplinary studies with course content dependent on student demand and instructor's interest. Rpt. As topics vary.
ITW	6910	Directed Research	1-19	AS	WLE	PR: GR. ML. S/U.	Selected topics in Italian literature.
JOU	5105	Newswriting and Editing	3	AS	COM	PR: GS in Mass Communications or CI.	Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.
JOU	5305	Explorations in Newswriting	3	AS	COM	PR: CC.	Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on-going beyond traditional practices of reporting and writing news stories.
JOU	5344	Multimedia Journalism	3	AS	COM	PR: An appropriate undergraduate degree in mass communications or significant professional experience in journalistic writing styles.	The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.
JOU	6107	News Coverage of Public Life	3	AS	COM	PR: CC.	Problems and methods of reporting urban affairs, including municipal government, and politics: city, county, and state. Research/analyses of current issues.
JOU	6122	Reporting: Methods and Perspectives	3	AS	COM	PR: CC.	Instruction and practice in computer-assisted reporting, social science research, interviewing, data-document research, observational techniques, and other methods of news gathering.
JOU	6191	Seminar: Contemporary Issues in Journalism	3	AS	COM	PR: CC.	A study of the role of the free press in a democratic society and its efforts to fulfill its social and

							ethical responsibilities by analyses and discussions of the problems which face the reporter, the editor, and the publisher.
JOU	6349	Advanced Multimedia Journalism	3	AS	COM	PR: JOU 5342.	Students learn what it means to work in a multimedia environment and will create a journalism project across multiple media platforms, including broadcast, print and the web. They will also explore the theoretical assumptions of the field.
JOU	6501	Media Management	3	AS	COM		The course provides students with a foundation in understanding the financial and economic environment of the mass media and the process of managing mass media enterprises in the new multimedia environment. It is not restricted nor repeatable for credit.
JOU	6707	Studies in Press Criticism	3	AS	COM	PR: CC.	A study of the principles and methods of journalism and the performance of its practitioners from a multi-disciplinary perspective of critical analysis.
LAE	5462	Young Adult and World Literature for New Teachers	3	ED	EDI	PR: Teaching position w/either English degree or 30 hrs of Undergraduate English	A study of the types of literature read by adolescents, including literature representative of other cultures, with emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.
LAE	5932	Selected Topics in the Teaching of English	3	ED	EDT	PR: Certification in English and/or Mass Communications and approval of graduate advisor.	Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate advisor.
LAE	6301	Language Learning in Childhood	3	ED	EDE		Research used to assess the language behavior of normal children and application of selected research methodology to understanding linguistic behavior of children.
LAE	6315	Writing and Writers: Trends & Issues	3	ED	EDE		The purpose of this course is to examine writing as a developing symbol system that is embedded in social and cultural contexts. Students will develop instructional strategies to facilitate children's writing development, as well as develop individual strategies for composing personal and professional texts.
LAE	6316	Trends in Literature in a Diverse Society	3	ED	EDE		Focuses on the examination of historical and contemporary multicultural children's literature in order to help teachers and students gain a pluralistic perspective of society. Instructional programs are designed to lead school-age children to a broader understanding, respect, and appreciation of all persons representing various cultural,

							ethnic, and societal groups.
LAE	6325	Methods of Teaching Middle School Language Arts	4	ED	EDI		Balanced literacy methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature based program for middle school students. Note: This course has a field component of 36 hours.
LAE	6339	Methods of Teaching Secondary English Language Arts	4	ED	EDI		Balanced literacy methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for secondary school students. Note: This course has a field component of 36 hours.
LAE	6345	Teaching Written Composition	3	ED	EDT		Techniques for motivating, guiding, correcting, and evaluating student writing.
LAE	6366	New Perspectives on the Teaching of Young Adult Literature in Middle & Secondary Schools	3	ED	EDT	PR: Certification in English or Mass Communications	The primary purpose of this course is to improve the quality of language arts instruction at the middle and secondary levels. To achieve this basic purpose, we will focus chiefly on adolescents' perception of and responses to literature and the implications for organization and presentation of literature curricula.
LAE	6374	Practice in Teaching Grammar	3	AS	ENG		Demonstrates techniques incorporating instruction of essential elements of English grammar/mechanics into composition courses. Pedagogy is essential for teachers in secondary schools, community colleges, or advanced composition at the university level.
LAE	6375	Contemporary Composition Studies	3	AS	ENG		Examines the important research and theory in contemporary position pedagogy.
LAE	6389	Practice in Teaching Literature	1-3	AS	ENG		A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and teach college English teachers the variety and importance of literary techniques and their relevance to various subject matters.
LAE	6392	Practice in Teaching Composition	3	AS	ENG	S/U.	In semester I required of and open only to Teaching Assistants new to USF's Freshman English program. Gives practical guidance in preparing to teach composition.
LAE	6415	Literature And The Learner	3	ED	EDE		Nature, scope, and uses of literature for instructional, information, and recreational purposes and implications of current theory, significant research, and issues in literature study as they relate to the learner.
LAE	6467	World Literature for Teachers	3	ED	EDE	PR: English Education majors only or Certification in english or Mass Communictions.	World literature encompasses more than Wetern European literature. This course is designed to emphasize, but is not limited to, the study of Eastern literature. The

							course is for English Education majors only.
LAE	6616	Trends in Language Arts Instruction	3	ED	EDE	PR: LAE 4314 or equivalent or DPR	Significant concepts, emerging trends, research, and instructional techniques for implementation and utilization of language arts in all areas of the curriculum.
LAE	6637	Current Trends in Secondary English Education	3	ED	EDT	PR: LAE 4335 or LAE 4642 or Certification in English or Mass Communications.	Curricular patterns and instructional practices in secondary English.
LAE	6644	Current Teaching of the English Language and the Study of Traditional Grammar	3	ED	EDT	PR: Certification in English or Mass Communications.	Applications of recent techniques of language study to classroom teaching of English, especially in relation to the teaching of grammar. Presents an interactive approach to grammar instruction in which students learn the basic elements of English grammar and engaging classroom activities for teaching grammar in the schools. Fulfills the grammar course requirement for teacher certification in English.
LAE	6861	American and British Literature with Technology	3	ED	EDI	PR: EDG 6947.	A study of five sections of literature: 1) British Literature before Shakespeare, 2) British Literature after Shakespeare to 1740, 3) British Literature 1740-1900, 4) American Literature before 1900, and 5) Twentieth Century British and American Literature (1890 to the Present) while developing an individual's skill with technology.
LAE	6906	Independent Study in English Education	1-6	ED	EDT		This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.
LAE	6947	Internship	6	ED	EDI	CI.	Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)
LAE	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDT	S/U.	
LAE	7376	Problems in Advanced English Instruction of Composition	3	AS	ENG	PR: Admission to the Ph.D. program in English.	Apprenticed, closely supervised study of and practice in teaching of college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry.
LAE	7390	Problems in Advanced English Instruction and Scholarly Research	3	AS	ENG	PR: Ph.D. Candidacy.	This course provides closely supervised training in upper-level college English instruction and experience with professional research. Experience in lecture, seminar discussion, examinations, evaluation, conferences, directing undergraduate research, course development, use of secondary materials, publication procedure, and collation.
LAE	7717	Theories And	3	ED	EDE	PR: LAE 6616 or	New research findings and

		Patterns Of Advanced Language Arts Instruction				equiv.	theories relating to language patterns and contemporary programs for teaching language arts.
LAE	7747	Literature Program Design	3	ED	EDE	PR: EDF 6481, LAE 6415, or LAE 6336 or DPR.	Investigation and analysis of the research in literature instruction and the application of the findings to the development of literature programs.
LAE	7910	Directed Research in English Education	1-19	ED	EDT	PR: CI.	This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.
LAE	7980	Dissertation	2-30	ED	EDI	PR: Admission to Candidacy	Rpt. S/U
LAS	6913	Independent Study and Research in Latin American	1-9	AS	INT	PR: CI.	This course will provide graduate students with an opportunity to engage in research and/or study abroad in Latin America & the Caribbean, to earn credits towards their degree. Open to LAC majors and non majors. Repeatable up to 9 credits.
LAS	6936	Seminar in Latin American Studies I	3	AS	INT		This seminar introduces students to the general study of the region and peoples of Latin America and their emigrant populations in the United States. Repeatable as topic varies.
LAS	6971	Thesis in Latin America and Caribbean	1-12	AS	INT	PR: Graduate Standing.	This course will allow graduate students to earn credits while working on a thesis that is focused in Latin America & the Caribbean. Open to all graduate majors. Repeatable.
LIN	5700	Applied Linguistics	3	AS	WLE		Analysis of the phonological, morphonological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.
LIN	6018	Topics in Theoretical Linguistics	3	AS	WLE		Offerings will include current issues in any area of linguistic theory.
LIN	6081	Introduction to Graduate Study in Linguistics	3	AS	WLE	Required of all M.A. candidates.	An introduction to the aims and methodologies of linguistics as a graduate discipline: The field of linguistics, its subdisciplines, and its relationship to adjacent arts and sciences; bibliographical resources; methods of research and research writing; and a brief survey of the historical development of linguistics and current issues in the field.
LIN	6117	History of Linguistic Thought	3	AS	WLE	PR: CC.	Survey of the development of language study in the West from Antiquity to the present. Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies.

LIN	6129	Studies in English Language and Linguistics	3	AS	WLE		An advanced study of the origin, historical development and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.
LIN	6322	Phonological Description	3	AS	WLE	PR: CI.	Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. Theory and data-solution problems.
LIN	6351	The Sound System of English	3	AS	WLE	PR: LIN 5700 or EQ.	Training in applied phonetic transcription of American English speech; analysis and description of major phonological processes and dialect features of American English, with practice in teaching pronunciation.
LIN	6571	The Structure of a Specific Language	3	AS	WLE		Analysis of the linguistic structures of both common and uncommon languages.
LIN	6601	Sociolinguistics	3	AS	WLE		Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its findings for current linguistic theory.
LIN	6675	The Grammatical Structure of American English	3	AS	WLE	PR: LIN 5700 or EQ.	Analysis and description of major morphological and syntactic structures of American English, with emphasis upon applied linguistics.
LIN	6715	Language Acquisition	3	AS	WLE	PR: LIN 3010, LIN 4377 or CI.	A survey of current research and theory in the processes of normal language acquisition and development.
LIN	6720	Second Language Acquisition	3	AS	WLE	PR: LIN 6715 or EQ.	Neurolinguistic, psycholinguistic, and sociolinguistic bases of second language acquisition by both children and adults.
LIN	6722	Writing Processes in Second Languages Acquisition	3	AS	WLE	PR: LIN 6081,TSL5371 TSL 5371.	A survey of current threory and research in second language writing development and instruction, with emphasis upon second language writing in academic settings. May be taken as an elective by students in the Ph.D. program in Second Language Acquisition and Instructional Technology or the M.A. program in Applied Linguistics.
LIN	6748	Contrastive Analysis	3	AS	WLE		Comparison and contrast of the structures of American English with corresponding structures in selected foreign languages. EA and IA added for contrast with CA.
LIN	6908	Independent Study	1-19	AS	WLE	PR: CC. S/U.	Independent study in which the student must have a contract with an instructor.
LIN	6910	Directed Research	1-10	AS	WLE	PR: GR. ML, CC. S/U.	
LIN	6932	Selected Topics	1-4	AS	WLE	PR: CC.	Content will depend upon instructor's interests and students' needs. Such topics and neurolinguistics, bilingualism, and

							discourse analysis may be taught.
LIN	6940	Graduate Instruction Methods	1-4	AS	WLE	S/U only.	Special course to be used primarily for the training of teaching assistants.
LIN	6971	Thesis: Master's	2-19	AS	WLE	S/U.	
LIS	5020	Foundations of Library and Information Science	3	AS	LIS		Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.
LIS	5268	Microcomputer Applications Library and Information Centers	3	AS	LIS		Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets, databases, and telecommunications are undertaken.
LIS	5315	Instructional Graphics	3	AS	LIS		Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.
LIS	5333	TV in Schools and Libraries	3	AS	LIS		Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.
LIS	5937	Selected Topics in Library Studies	1-4	AS	LIS		Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.
LIS	6110	History of Libraries	3	AS	LIS		Development of libraries as found from the earliest records to the great libraries of modern times, and the library as a social institution.
LIS	6111	History of Children's Literature	3	AS	LIS		Historical bibliographical survey of imaginative and information literature for children.
LIS	6206	Adult Services in Libraries	3	AS	LIS	PR: LIS 6511 or CI.	Traditional and innovative services for adults in public and other types of libraries, including those for special groups, such as the aging, handicapped, and institutionalized.
LIS	6212	Reading Guidance Programs in Libraries and Classrooms	3	AS	LIS		Working with factors and forces influencing reading habits of children and youth; programs for teaching investigative and library skills materials and methods for guidance of reading, listening, and viewing.
LIS	6225	Storytelling	3	AS	LIS	PR: LIS 6585 or CI.	Building storytelling programs for school and public libraries or other educational institutions. Analysis of historical aspects, materials suitable for use and audience reaction.
LIS	6260	Information Science in Librarianship	3	AS	LIS		Historical overview of the emergence of information science as a discipline. The fundamental concepts of information retrieval systems and subsystems, related

							information technologies, including indexing and abstracting, and their applications to the field of librarianship.
LIS	6271	Research Methods in Library and Information Science	3	AS	LIS	PR: LIS 5020, LIS 6603, and LIS 6725 or LIS 6735.	Overview of present status of research in library and information science; introduction to research methods and their application to librarianship; designed to prepare students to evaluate and plan research studies relating to library and information science.
LIS	6303	Preparing Instructional Media	3	AS	LIS		Fundamentals of preparing and using audiovisuals as they relate to the communication process.
LIS	6402	Advanced Library Administration	3	AS	LIS		Applications of staff management principles to library situations. Includes staff roles in current and future operations, application of library performance measures to determine staff effectiveness; preparation of staff manuals; problems of special classes of library workers, such as volunteers and students.
LIS	6409	Introduction to Library Administration	3	AS	LIS		Behavioral approach to libraries as organizations; administrative principles, theories, and problems of all types of libraries; methods of administration; use of case studies, role plays, and in-basket exercises.
LIS	6432	Seminar in Academic Libraries	3	AS	LIS	PR: LIS 6409 or CC.	Identification of problems and critical examination of methods in administrative areas of technical, student and teaching staff services, fiscal and legal responsibilities, staff organization and supervision in academic libraries.
LIS	6445	Seminar in Public Libraries	3	AS	LIS	PR: LIS 6409 or CC.	Critical examination of public and institutional library administration, services, resources, and facilities at the municipal, county, and regional levels. Role of state and federal governments in library development.
LIS	6455	Organization and Administration of the School Media Center	3	AS	LIS	PR: LIS 6409 or CC.	Media quarters, facilities, collections, equipment, and services. Principles of organization and administration of media programs in elementary and secondary schools. Field trips to area media centers required.
LIS	6463	Library Networks and Systems	3	AS	LIS		Development of library networks at the local, state, regional, and national levels with consideration of organization, administration, services, funding, and legislation.
LIS	6464	Library Systems Analysis and Planning	3	AS	LIS		Application of systems planning and data processing technology to library files. Emphasis on analysis of selected library subsystems.
LIS	6472	Seminar in Special Libraries	3	AS	LIS	PR: LIS 6409 or CC.	Identification of problems and critical examination of methods in administrative areas of technical and special service clientele; fiscal and legal responsibilities, staff organization, and services in

							special libraries.
LIS	6473	Law Librarianship	3	AS	LIS	PR: LIS 6260, LIS 6409, LIS 6603, LIS 6735, or CC.	All aspects of law librarianship, including administration, acquisition, organization, and use of information resources for persons in the law fields. Field trip may be required.
LIS	6475	Health Sciences Librarianship	3	AS	LIS	PR: LIS 6260, LIS 6409, LIS 6603, LIS 6735 or CC. Field trip may be required.	All aspects of health science librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields such as physicians, medical students, nursing students, allied health personnel and students, and researchers.
LIS	6511	Collection Development and Maintenance	3	AS	LIS	CP: LIS 6271.	Developmental approach to building library collections of both print and non-print materials. Emphasis upon evaluation, selection, and acquisition of library materials as they uphold the objectives of the institutions for which they are selected and acquired.
LIS	6542	The Curriculum and Instructional Technology	3	AS	LIS		Effective utilization of instructional materials as they relate to specific areas of curriculum in elementary and high school programs.
LIS	6565	Books and Related Materials for Young Adults	3	AS	LIS		Young adult materials for use in secondary school libraries, young adult sections of public libraries, and other institutions serving youth. Equal emphasis upon (1) selection principles and bibliographical sources, as well as upon (2) utilization in terms of service to the young adult.
LIS	6585	Materials for Children	3	AS	LIS		Examination of materials for all institutions in which children are served: school media centers, public libraries, kindergartens, etc. Stress on selection aids, reviewing techniques, utilizations.
LIS	6603	Basic Information Sources and Services	3	AS	LIS		An examination of the basic sources of information in the general library; of bibliographical control of all communication media, with emphasis on those tools of most value to general reference services.
LIS	6609	Online Information Sources and Services	3	AS	LIS	PR: LIS 6260, LIS 6603, or CC.	Principles of online searching and characteristics of machine-readable bibliographic data bases. Includes two credit hours of laboratory providing hands-on research experience.
LIS	6610	Information Sources and Services in the Humanities	3	AS	LIS	PR: LIS 6603 or CC.	Consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems in the reference service.
LIS	6620	Information Sources and Services in the Social Sciences	3	AS	LIS	PR: LIS 6603 or CC.	Consideration of the bibliographical and reference materials in the social sciences with training and practice in their use for solving problems in

							reference service.
LIS	6624	Information Sources and Services in Business and Law	3	AS	LIS	PR: LIS 6603 or CI.	Consideration of representative reference sources in business and law with training and practice in their use for solving information problems in academic, public, and special libraries.
LIS	6630	Information Sources and Services in Science and Technology	3	AS	LIS	PR: LIS 6603 or CC.	Study of representative reference sources in pure and applied sciences with equal attention given to typical problems encountered in scientific and technological reference service.
LIS	6661	Government Documents	3	AS	LIS		The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization, and reference use.
LIS	6724	Classification and Cataloging of Non-Book Materials	3	AS	LIS	PR: LIS 6735 or CC.	Principles and practices in cataloging and organizing non-book materials.
LIS	6725	Organization of Knowledge I	3	AS	LIS		Principles of the organization of knowledge emphasizing descriptive cataloging, including the MARC format, the use of LSCSH and the Library of Congress classification, and searching the OCLC Online Union Catalog.
LIS	6726C	Indexing and Abstracting	3	AS	LIS	PR: LIS 6725 or LIS 6735	Principles and procedures for indexing and abstracting products of human knowledge in various formats, including vocabulary control, thesaurus construction, classification, and coding in manual, automated, and intelligent systems.
LIS	6735	Technical Services in Small Libraries	3	AS	LIS		Covers aspects of technical services including acquisitions, cataloging, and circulation systems as they relate to school media centers, small public libraries, and information centers. Automation is emphasized in all aspects of the course.
LIS	6745	Organization of Knowledge II	3	AS	LIS	PR: LIS 6725.	Introduction to the practice in using selected schedules of Library of Congress Classification System and the Library of Congress Subject Heading List; changing policies and procedures in cataloging and an introduction to the use of the MARC format for inputting cataloging data into machine readable files.
LIS	6906	Independent Study	1-4	AS	LIS	PR: 20 hours in program and consent of advisor. S/U.	
LIS	6946	Supervised Field Work	3	AS	LIS	PR: CC.	Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.
LIT	6096	Studies in Contemporary Literature	3	AS	ENG		Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T.

							Williams, Beckett, Camus, Burgess, Morrison, and Walker.
LIT	6105	Studies in Continental Literature	3	AS	ENG		General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy.
LIT	6934	Selected Topics in English Studies	3	AS	ENG		Current topics offered on a rotating basis include The Nature of Tragedy; The Nature of Comedy and Satire; and the Nature of Myth, Allegory, and Symbolism; the Epic; Utopian Literature. Other topics will be added in accordance with student demand and instructor interest.
LNW	5900	Directed Reading	1-4	AS	WLE	Departmental approval required. S/U.	
LNW	5934	Selected Topics	4	AS	WLE		Study of an author, movement, or theme.
LNW	6325	Roman Elegiac Poets	3	AS	WLE		Readings in Catullus, Propertius, Tibullus. Study of technique and tradition in Roman lyric poetry.
LNW	6505	Roman Philosophy	3	AS	WLE		Readings in the philosophic writings of Cicero, Seneca, and Lucretius, together with an examination of Stoic, Epicurean, and Eclectic thought.
LNW	6655	Horace	3	AS	WLE		Readings in the Odes and Epodes of Horace; study of the Ode's tradition.
LNW	6665	Vergil	3	AS	WLE		Readings in the Aeneid, the Eclogues, and the Georgics.
LNW	6910	Supervised Research	3	AS	WLE	PR: CC.	
LNW	6940	Supervised Teaching	3	AS	WLE		
MAA	5306	Real Analysis I	3	AS	MTH	PR: MAA 4211.	Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on R.
MAA	5307	Real Analysis II	3	AS	MTH	PR: MAA 5306.	Metric spaces, Banach spaces, and function spaces; measure and integration on abstract spaces.
MAA	5405	Applied Complex Analysis	3	AS	MTH	PR: CI.	Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)
MAA	6406	Complex Analysis I	3	AS	MTH	PR: MAA 5405 or CI.	Linear transformations, analytic functions, conformal mapping, Cauchy's theorem and applications, power series, partial fractions and factorization, elementary Riemann surfaces, Riemann mapping theorem.
MAA	6407	Complex Analysis II	3	AS	MTH	PR: MAA 6406 or CI.	Topics in: conformal mappings, normal families, Picard's theorem, univalent functions, extremal properties, elliptic functions, approximation theory, Riemann surfaces.
MAA	6506	Functional Analysis I	3	AS	MTH	PR: MAA 5307, MAS 5107 or CI.	Normed linear spaces and topological vector spaces; open mapping, closed graph, and Hahn-Banach Theorem, UB principle, compact operators, dual spaces.
MAA	6507	Functional Analysis II	3	AS	MTH	PR: MAA 6506.	Hilbert spaces, spectral theory, and other topics.

MAA	6616	Abstract Integration	3	AS	MTH	PR: MAA 5307 or CI.	Measure as abstract integration; Riesz representation theorem, Fubini's Theorem, Radon-Nikodym Theorem, LP spaces.
MAD	5101	LISP: Programming With Algebraic Applications	3	AS	MTH	PR: MHF 5306 or MAD 6510 or MAS 5311 or CI.	Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).
MAD	5305	Graph Theory	3	AS	MTH	PR: MAS 3105 or CI.	Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.
MAD	6206	Combinatorics I	3	AS	MTH	PR: MAS 3105 and MAS 4301 or CI.	Elementary counting principles, distributions, sets, multisets, partitions of sets and integers, generating functions and recurrences, graphical methods, probabilistic methods.
MAD	6207	Combinatorics II	3	AS	MTH	PR: MAS 5311 and MAD 6206 or CI.	Combinatorics of finite sets: posets, hypergraphs and external problems, matriods, block designs, Mobius inversion for partially ordered sets, Polya's enumeration theory.
MAD	6510	Analysis of Algorithms	4	AS	MTH	PR: MAS 4301 or CI.	Mathematical theory of algorithms for information processing, including time and space requirements of algorithms, construction of optimal algorithms.
MAD	6616	Algebraic Automata Theory	3	AS	MTH	PR: MAS 4301 or CI.	Deterministic and non-deterministic finite automata, Mealy and Moore machines, push-down automata, Turing machines, regular languages, context free languages, halting problem, and universal Turing machines.
MAD	6617	Algebraic Coding Theory	3	AS	MTH	PR: MAS 5311 or CI.	Linear block codes over an arbitrary finite field: Hamming, Golay, BCH, quadratic residue, Reed-Muller, and MDS codes, the MacWilliams identity, bounds on minimum distance, and relationship to design theory.
MAE	5875	Abstract Algebra for Teachers	3	AS	MTH	PR: MAS 3105 and MAS 4301 and Bachelor's degree or CI. No credit for Mathematics majors.	Groups, fields, vector spaces as they relate to high school algebra and geometry.
MAE	6115	Current Trends in Elementary Mathematics Education	3	ED	EDE	PR: MAE 4310 or equiv.	Philosophy, content, and process of mathematics instruction in elementary school programs.
MAE	6117	Teaching Elementary Math	3	ED	EDE		This course provides for the development of knowledge and skills necessary to prepare students as teachers of mathematics in elementary classes as recommended by the National Council of Teachers of Mathematics in its guidelines for teachers.
MAE	6126	Current Trends in Middle Grades Mathematics	3	ED	EDO	PR: Admission to the MAT program in middle grades mathematics or CI and MAE 6356.	This course examines current trends and issues in middle grades mathematics. It familiarizes teachers with new developments in this field with a focus on

							curriculum issues and issues arising from state, national, and international assessments.
MAE	6127	Probability and Statistics for Middle Grades Teachers	3	ED	EDO	PR: Admission to the MAT program in middle grades mathematics or CI.	This course examines probability and statistics topics for middle grades mathematics teachers. Topics include data collection and display, measures of central tendency and variability, probabilities, and sampling procedures.
MAE	6136	Current Trends in Secondary Mathematics Education	3	ED	EDO	PR: MAE 4330 or DPR.	Curricular patterns and instructional practices in secondary mathematics.
MAE	6137	Topics in Teaching Probability and Statistics	3	ED	EDO	PR: Admission to a graduate program in mathematics education.	This course examines issues related to teaching probability and statistics in secondary schools.
MAE	6324	Advanced Math Topics - Middle Grades Teachers	3	ED	EDO	PR: Admission into the MAT in Middle Grades Mathematics or CI. Completion of MAE 6127, MAE 6328, MAE 6329, and MAE 6325.	This course examines advanced functions topics, basic concepts of trigonometry, and the foundations of calculus. Teachers experience instructional approaches appropriate for use in middle grades classrooms.
MAE	6325	Number Theory for Middle Grades Teachers	3	ED	EDO	PR: Admission into the MAT in Middle Grades Mathematics or CI.	This course examines in number theory concepts appropriate for middle grades mathematics teachers, including historical connections. Teachers experience instructional approaches appropriate for use in middle grades classrooms.
MAE	6328	Algebra for Middle Grades Teachers	3	ED	EDO	PR: Admission into the MAT in Middle Grades Mathematics or CI. Completion of MAE 6127, MAE 6328, MAE 6329, and MAE 6325.	This course examines in algebra content appropriate for middle grades mathematics teachers, including the use of technology to study algebra. Teachers experience instructional approaches appropriate for use in middle grades algebra classrooms.
MAE	6329	Geometry and Measurement for Middle Grades Teachers	3	ED	EDO	PR: Admission into the MAT in Middle Grades Mathematics or CI.	This course examines in geometry content appropriate for middle grades mathematics teachers, including the use of technology to study geometry. Teachers experience instructional approaches appropriate for use in middle grades classrooms.
MAE	6334	Problem Solving for Elementary Teachers	3	ED	EDO	PR: Admission into the MA in Elementary with a Mathematics/Science emphasis.	This course analyzes problem-solving strategies of elementary teachers and their students.
MAE	6335	Geometry and Measurement for Elementary Teachers	3	ED	EDO	PR: Admission into the MA in Elementary with a Mathematics/Science emphasis.	This course is designed to enhance the geometric content knowledge of elementary teachers and to consider how geometric experiences and concepts can be introduced into the elementary curriculum.
MAE	6336	Topics in Teaching Calculus	3	ED	EDO	PR: Admission to a graduate program in mathematics education.	This course examines issues related to teaching calculus in secondary schools.
MAE	6337	Topics in Teaching Algebra	1-4	ED	EDO	PR: Undergraduate degree in mathematics or	Topics in algebra, philosophy, new trends, and methods of teaching secondary school algebra.

						certification in secondary school mathematics	
MAE	6338	Topics in Teaching Geometry	1-4	ED	EDO	PR: Undergraduate degree in mathematics or certification in secondary school mathematics	Topics in geometry, philosophy, new trends, and methods of teaching secondary school geometry.
MAE	6339	Algebraic Thinking for Elementary Teachers	3	ED	EDO	PR: Admission into the MA in Elementary with a Mathematics/Science emphasis.	This course is designed to enhance the algebra content knowledge of elementary teachers and to consider hpw algebraic experiences and informal algebraic concepts can be introduced into the elementary curriculum.
MAE	6356	Teaching of Pre-Secondary School Mathematics	3	ED	EDO	PR: 12 hours of mathematics. DPR.	Development of strategies and materials for teaching mathematical concepts and skills appropriate to pre-secondary school years.
MAE	6362	Senior High Mathematics Methods	3	ED	EDO	PR: Admission into the MAT in Mathematics Education (6-12) or CI.	This course is designed to prepare teachers for a successful induction to teaching mathematics in the high schools of today. It is designed to bridge the perceived gap between theory and practice.
MAE	6370	Mathematics for High School Teachers	3	ED	EDO	PR: Admission to a graduate program in mathematics education.	This course examines high school mathematics from an advanced perspective and makes connections between college level mathematics and the mathematics of the secondary school.
MAE	6643	Communication Skills in Mathematics	3	ED	EDO	PR: Admission into the MAT in Middle Grades Mathematics or CI.	This course examines issues related to communicating in mathematics, including reading, writing, speaking, and listening. It satisfies the reading in the content area mandate for certification.
MAE	6899	Internship Seminar in Mathematics Education	1-3	ED	EDO	PR: Admission into a graduate initial certification program in mathematics education. CR: MAE 6947, Graduate Internship: Mathematics Education.	This seminar accompanies the graduate internship in mathematics education and provides teacher candidates an opportunity to interact with peers and university faculty regarding classroom experiences.
MAE	6906	Independent Study in Mathematics Education	1-6	ED	EDO		This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.
MAE	6945	Practicum in Mathematics Education	3	ED	EDO	PR: Admission into a graduate initial certification program in mathematics education.	This practicum provides individuals in the MAT program in mathematics education with early field experiences in mathematics classrooms at the middle or high school levels, depending on the program of study.
MAE	6947	Internship	6	ED	EDI	PR: CI.	Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)
MAE	6971	Thesis:	2-	ED	EDO	S/U.	

		Masters/Educational Specialist	19				
MAE	7138	Assessment in Mathematics Education	3	ED	EDO	PR: Admission to the Ph.D. Program with emphasis in Mathematics Education or CI.	This course discusses issues related to assessment in mathematics education at all levels, including state, national, and international assessments. It also discusses issues related to rubrics and alternative assessments in mathematics.
MAE	7146	Curriculum History/Research Mathematics Education	3	ED	EDO	PR: Admission to the Ph.D. Program with emphasis in Mathematics Education or CI.	This course surveys curriculum history in mathematics education, discusses current research on mathematics education curricula, and explores issues related to conducting research on curriculum in this field.
MAE	7655	Technology Issues in Mathematics Education	3	ED	EDO	PR: Admission to the Ph.D. Program with emphasis in Mathematics Education or CI.	This course focuses on issues surrounding the use of technology in mathematics education. It examines perspectives and research about technology in mathematics education and their implications for technology instruction in school mathematics programs.
MAE	7794	Preparing Teachers of Mathematics, K-12	3	ED	EDO	PR: Admission to the Ph.D. Program with emphasis in Mathematics Education or CI.	This course focuses on analyzing and examining the research in mathematics teaching and teacher education as it relates to the initial preparation of teachers of mathematics and to the professional development of practicing teachers of mathematics.
MAE	7796	Research Issues in Mathematics Education	3	ED	EDO	PR: Admission to the Ph.D. Program with emphasis in Mathematics Education or CI.	This course focuses on current research in mathematics education and its implications for instruction in school mathematics programs, particularly its impact on mathematics curricula, learning, and instruction.
MAE	7910	Directed Research in Mathematics Education	1-19	ED	EDO	PR: CI.	This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.
MAE	7945	Practicum in Mathematics Education	3	ED	EDO	PR: Admission to the Ph.D. Program with emphasis in Mathematics Education or CI.	This practicum provides doctoral students in mathematics education an opportunity to engage in professional experiences in teaching or research that are individualized to meet future academic needs and goals.
MAE	7980	Dissertation	2-30	ED	EDO	PR: Admission to Candidacy.	
MAN	6053	Politics and Control in Organizations	3	BA	MAN	PR: GS.	Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact.
MAN	6055	Human Behavior and	3	BA	MBA	PR: GS.	An examination of the theory and

		Organization					practice of management, including the study of goals and means, the functions of management, and the administrative process in general.
MAN	6107	Leadership Perspective	3	BA	MAN		Examines the perspective required of the manager/leader/facilitator in light of personal, organizational, and societal needs judged by standards of effectiveness and ethicalness.
MAN	6116	Managing Diversity	3	BA	MAN		Course deals with questions, dimensions of style and structure, problems and paradigms of solutions that have come out of management experience of a changing workforce during the past twenty years. Emerging styles of leadership among people of diverse cultural backgrounds will be explored as solutions, not as problems.
MAN	6122	Leadership and Teams	3	BA	MAN		Exploration, analysis and application of leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.
MAN	6140	Decision Making & Problem Solving	2	BA	MAN		
MAN	6149	Leadership and Teams	3	BA	MAN	PR: GS.	) Exploration, analysis and applications of Leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.
MAN	6204	Organization Design and Structure	3	BA	MAN		Systematic study of architecture, design and management approaches that influence the effectiveness of public and private organizations, including theory, environment, technology, culture, behavior control and work design.
MAN	6256	Politics and Control in Organizations	3	BA	MAN		Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact.
MAN	6289	Organizational Change and Development	3	BA	MAN	PR: MAN 6055 or CI.	A combination laboratory-field course requiring the integration of behavioral science theories, tools, concepts, and techniques learned in the lab to an OB application in a "real" organization.
MAN	6305	Human Resource Management	3	BA	MAN	PR: GS.	Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and

							organizational objectives.
MAN	6448	Negotiating Agreement and Resolving Conflict	3	BA	MAN		Provide the student with an overview of conflict resolution within/between organizations. Includes negotiation, mediation, arbitration, peer review, and other alternatives to litigation; internal dispute resolution, dispute system design/implementation.
MAN	6525	Quality Management	3	BA	MAN	PR: GS.	This course provides the student with an understanding of the fundamentals of quality management. Students will develop an appreciation for the complexities of modern organizations in the pursuit of quality. A cross-function multidisciplinary approach is used.
MAN	6527	Advanced Seminar in Quality Management	3	BA	MAN	PR: MAN 6525	This course explores the new paradigm shift occurring in business. Focusing on quality enhancement initiatives, the course explores the execution of quality management programs and their associated complexities.
MAN	6569	Quantitative Applications for Management Decisions	3	BA	QMB	PR: QMB 6305 and QMB 6603	The integration of quantitative approaches and management science tools into the decision making process at various organizational levels and in various organizational settings involved in the production and dissemination of goods and services.
MAN	6601	International Management	3	BA	MAN	PR: GS.	A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies.
MAN	6607	Managing International Cultural Differences	3	BA	MAN	PR: GS.	Examines the effects of culture and nationality on business practices in selected regions and countries and suggests ways to build synergistic solutions from multicultural differences.
MAN	6726	Strategic Planning	3	BA	MAN	PR: Graduate Standing	Examines techniques to creatively vision and analyze the future to prepare individuals and organizations for future opportunities and threats. Designed to familiarize students with techniques for analyzing the future, critical issues, how the future will impact them as individuals.
MAN	6806	Entrepreneurship and Small Business Management Counseling	1-3	BA	MAN		Small business management consulting to an on-going firm or development of a business plan for a new enterprise. Emphasis on developing consulting skills and recognizing implications of entrepreneurs capabilities and attitudes for success.
MAN	6905	Independent Study	1-19	BA	MAN	PR: CC. S/U.	Independent study in which student must have a contract with an instructor.
MAN	6911	Directed Research	1-1	BA	MAN	S/U. PR: GR. ML, CC.	

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MAN	6930	Selected Topics	1-4	BA	MAN	PR: CC.	Designed to be taken either under general guidance of faculty member on some facet of management not offered in a regular course or with regularly scheduled graduate courses for more in-depth study.
MAN	6971	Thesis: Master's	1-19	BA	MAN		
MAN	7205	Organization Theory	3	BA	MAN	PR: MAN 7225 or CI.	Interdisciplinary overview of theory and research on macro organizational variables affecting organizational design and effectiveness. Focus on relationships between organizational structure and dynamics of human behavior.
MAN	7225	Research Elective in Management	3	BA	MAN	PR: MAN 6055, Research Methods I and II or equiv.	Parametric & nonparametric statistics required. Research: Methods for organization analysis and management, design, sample selection, data collection, interpretation and presentation of results.
MAN	7245	Organizational Behavior	3	BA	MAN	PR: MAN 7205 or CI.	Behavioral concepts and practices in organizations. Emphasis on individual groups, intragroup and intergroup development and actions; organization; socialization; motivation; values; performance; communication effectiveness.
MAN	7285	Organizational Development	3	BA	MAN	PR: MAN 7205 or CI.	Theory and research relating to management efforts to design and implement continual developmental activities to alter climate and improve productivity and effectiveness in dynamic organizations.
MAN	7900	Directed Readings in Management	3	BA	MAN	PR: MAN 7245 and MAN 7285 or CI.	Advanced reading program from selected areas in management under supervision of faculty member, requiring written contract describing requirements, prior to registration.
MAN	7905	Independent Study in Management	1-4	BA	MAN	PR: CC. S/U only.	Course permits a management doctoral student to conduct research and pursue specific areas of interest with a faculty member as supervisor. Contract required to establish performance levels expected.
MAN	7910	Directed Research in Management	3	BA	MAN	PR: MAN 7245 and MAN 7285 or CI. S/U.	Advanced directed research program in a specific area of management under supervision of a management faculty member.
MAN	7920	Research Symposium	1	BA	MAN		
MAN	7930	Selected Topics in Management	3	BA	MAN	PR: MAN 7245 and MAN 7285 or CI.	A flexible format to offer specialized courses in management not available in regular curriculum.
MAN	7932	Seminar in Management	3	BA	MAN	PR: MAN 7245 and MAN 7285 or CI.	Critical examination of problems and issues relevant to contemporary management, such as productivity improvement, environmental constraints, etc.
MAN	7935	Seminar in Strategic Management	3	BA	MAN	PR: CC.	Introduces basic theoretical issues and empirical research in strategic

							management.
MAN	7980	Dissertation	2-21	BA	MAN	PR: Successful completion of preliminary exams; successful completion of Field Exams in each Major and Secondary field and admission to candidacy for Ph.D. program in Management.	
MAP	5316	Ordinary Differential Equations I	3	AS	MTH	PR: MAP 2302 and MAA 4211, or CI.	Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory.
MAP	5317	Ordinary Differential Equations II	3	AS	MTH	PR: MAP 5316 and MAA 5307 or CI.	Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.
MAP	5345	Applied Partial Differential Equations	3	AS	MTH	PR: MAP 5407 or CI.	Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions with emphasis on applications.
MAP	5407	Methods of Applied Mathematics	3	AS	MTH	PR: MAP 2302 or CI.	Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.
MAP	6205	Control Theory and Optimization	3	AS	MTH	PR: MAA 5307 and MAP 5316 or CI.	Projection theorems and minimum norm problems, convex analysis, duality principle, constrained optimization, finite dimensional linear systems, controllability, optimal control and pontryagin maximum principle
MAP	6206	Math Opt Th II	3	AS	MTH		
MAP	6336	Theory of Ordinary Differential Equations I	3	AS	MTH	PR: MAA 5307 and MAP 5317, or CI.	Advanced topics selected from: existence and uniqueness theory, singularity theory, asymptotics and stability, eigenfunctions, perturbations, topological methods, spectral theory of differential operators.
MAP	6356	Partial Differential Equations	3	AS	MTH	PR: MAP 5345 and MAA 5307, or CI.	Advanced topics from: elliptic boundary value problems, semigroup theory, Sobolev spaces, degree theory, regularity, evolution equations
MAR	6158	International Marketing Management	3	BA	MKT	PR: MAR 6815, CC.	A study of marketing management activities from the perspective of firms doing business across national boundaries. Emphasis is upon aspects of marketing which are unique to international business and problem-solving within an international context.
MAR	6216	Logistics and Physical Distribution Management	3	BA	MKT	PR: MAR 6815 or CI.	A study of managerial methods focusing on the establishment and control of optimum customer service levels in the areas of inventory, transportation, fixed facility location, material handling, and information. Component parts

							of each system are analyzed quantitatively. Reading, lecture, and case analysis.
MAR	6336	Promotional Management	3	BA	MKT	PR: MAR 6815, CC.	Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing, and evaluating promotional strategy.
MAR	6406	Sales Management	3	BA	MKT	PR: MAR 6815, CC.	A study of the sales function of the firm approached from the perspective of the sales manager. Emphasis is placed upon the development of the student's problem-solving, decision-making, and analytical skills.
MAR	6646	Research for Marketing Managers	3	BA	MKT	PR: MAR 6815, QMB 6305, ISM 6021.	A study of marketing research methods and information systems and their relationship to marketing decision-making. Topics include value and cost of information, sample design, questionnaire design, statistical analysis, and report presentation. Lecture, reading, case analysis, and project.
MAR	6815	Marketing Management	2	BA	MBA	PR: ECO 6114, CC.	Analysis of operational and strategic planning problems confronting marketing managers. Topics include buyer behavior, market segmentation, information systems, product selection and development, pricing, distribution, promotion, and sales force management.
MAR	6816	Marketing Strategy	3	BA	MKT	PR: MAR 6815, CC.	A study of strategic marketing planning and problem-solving processes as practiced by the modern market-oriented firm. The course is designed to develop marketing problem-solving, decision-making, and planning skills through the extensive use of case analysis.
MAR	6907	Independent Study	1-19	BA	MKT	PR: CC. S/U.	Must have a contract with an instructor.
MAR	6916	Directed Research	1-19	BA	MKT	PR: GR. M.L, CC. S/U.	
MAR	6936	Selected Topics in Marketing	1-4	BA	MKT	PR: CI.	The content and organization of this course will vary according to the interests of the faculty and students involved in any given term.
MAR	7555	Consumer Behavior Theory	3	BA	MKT	PR: CC.	This course investigates the interrelationships and applications of behavioral science theories, concepts and methodologies to problems of understanding group as well as individual behavior in the market place.
MAR	7635	Advanced Marketing Research: Design and	3	BA	MKT	PR: QMB 7565, QMB 7566 or CI.	An intensive study of the theoretical, conceptual, and

		Technique					methodological issues in survey and experimental marketing research. A review and expansion of advanced marketing data analysis methods.
MAR	7667	Marketing Models and Strategy Applications	3	BA	MKT	PR: CC.	A model-building approach to the management of marketing. Includes models developed to aid in the design, implementation, and evaluation of corporate marketing strategies; information systems and marketing audits; and the interrelationships of economic, quantitative, and behavioral disciplines that provide the structure and tools necessary to develop and implement marketing decision support systems.
MAR	7787	Marketing Theory and Thought	3	BA	MKT	PR: GS and CI.	An intensive study of marketing concepts and theories from 1900 to present. Emphasis is placed on the development of theory, as well as predictions of future theoretical developments.
MAR	7910	Independent Study in Marketing	1-3	BA	MKT	PR: CC. S/U.	This course permits a doctoral student to pursue research in a specific area under the direct supervision of a faculty member.
MAR	7930	Advanced Seminar in Marketing	3	BA	MKT	PR: CC.	Broad readings within the field of marketing; an intensive survey and analysis of current marketing problems, their significance, evaluation, and probable outcome; suggestions of possible future empirical research directions and investigations.
MAR	7931	Seminar on Selected Marketing Topics	3	BA	MKT	PR: CC.	Intensive study of the theoretical, conceptual, and methodological issues and problems which impact managerial applications in selected topic areas, such as marketing channels, distribution/logistics, environmental or (social) nonprofit marketing, consumer behavior, advertising/media research, or international marketing.
MAR	7980	Dissertation	2-21	BA	MKT	PR: Successful completion of preliminary exams; successful completion of field exam in each major and secondary field; and admission to candidacy for Ph.D. program in marketing.	Directed research.
MAS	5107	Advanced Linear Algebra	3	AS	MTH	PR: MAS 3105 and MAS 4301 CP: MAS 5311.	Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-ad joint operators and quadratic forms.
MAS	5215	Number Theory	3	AS	MTH	PR: MAS 3105 and MAS 4301, or CI.	Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudo primes, primitive roots, law

							of quadratic reciprocity, factorization and primality testing algorithms.
MAS	5311	Algebra I	3	AS	MTH	PR: MAS 3105 and MAS 4301 or CI.	Group theory: Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.
MAS	5312	Algebra II	3	AS	MTH	PR: MAS 5311 or CI.	Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.
MAT	5932	Selected Topics	1-4	AS	MTH	PR: CI.	Each course covers a single topic outside the usual curriculum.
MAT	6908	Independent Study	1-19	AS	MTH	S/U.	Independent study in which student must have a contract with an instructor.
MAT	6911	Directed Research	1-19	AS	MTH	PR: Master's degree. S/U.	
MAT	6932	Selected Topics	1-4	AS	MTH	PR: CI	Each course covers a single topic outside the usual curriculum.
MAT	6939	Graduate Seminar	1-4	AS	MTH	S/U.	Direction of this seminar is by a faculty member. Students are required to present research papers from the literature.
MAT	6971	Thesis: Master's	2-19	AS	MTH	PR: CI. S/U	
MAT	7912	Directed Research	1-19	AS	MTH	PR: Ph.D. level. S/U.	
MAT	7980	Dissertation: Doctoral	2-19	AS	MTH	PR: Admission to Candidacy	
MCB	5206	Public Health and Pathogenic Microbiology	3	AS	BIO	PR: MCB 3020C, CI.	A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.
MCB	5655	Applied and Environmental Biology	3	AS	BIO	PR: MCB 3020C.	A Study of the applications of microbiology to the food/beverage industry, agriculture, public health and bioremediation. This course is a microbiology elective and has a mandatory field trip.
MCB	5815	Medical Mycology	3	AS	BIO	PR: MCB 3020C or CI.	A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.
MCB	6760	Microbial Symbioses	3	AS	BIO		A detailed study of the diversity and biological significance of symbiotic associations formed by prokaryotic and eukaryotic microbes with higher organisms. Emphasis is on the regulatory interplay between host and symbiont and the factors influencing the initiation, development, and maintenance of these associations.

MCB	6919	Independent Study	1-19	AS	BIO	PR: CI. S/U.	Independent study in which student must have a contract with an instructor.
MCB	6930	Graduate Microbiology Seminar	1	AS	BIO		A critical examination and discussion of current literature of microbiology.
MCB	6971	Thesis: Master's	2-19	AS	BIO	PR: CI. S/U.	
MEL	6705	Computer Assisted Diagnosis for Radiology	3	ME	RAD		Introduction to the development of computer assisted diagnosis methods for radiology. Physics of diagnostic radiology and fundamental analysis of radiographic images. Methods for medical pattern recognition, image processing, display, compression, and transfer. Methods for evaluation and clinical implementation.
MEL	7317	Medical Specialty Sampler	var	ME	MSG		The student will spend one or two half-days per week per discipline in chosen office practice settings. Opportunities are available in rheumatology, infectious disease, pulmonary, cardiology, geriatrics, gastroenterology, nephrology and oncology.
MEL	7324	Elective in Dermatopathology	var	ME	MSG		Designed for the student interested in pursuing dermatology residency. Students receive didactic and case-based instruction in dermatopathology, as well as the opportunity to participate in on-going departmental research.
MEL	7503	Pediatric Ophthalmology	1-20	ME	MSG		This course is designed for students interested in ophthalmology as a career. The student will participate in the pediatric ophthalmology service. The course includes participation in pediatric ophthalmology clinics and observation of surgeries. Attendance at departmental conference will be expected and independent reading and investigation encouraged.
MEL	7509	Glaucoma	1-20	ME	MSG		This course is designed for students interested in Ophthalmology as a career. The student will participate in the glaucoma service. The course includes participation in cornea clinics and observation of glaucoma surgery. Clinical methods used in the diagnosis and treatment of glaucoma will be presented.
MEL	7619	Forensic Psychiatry	var	ME	MSG		This elective is designed to provide interested senior medical students with clinical and research experience in the field of forensic psychiatry. The student will have the opportunity to participate in forensic evaluations of adults and children.
MEL	7740	Radiation Oncology	var	ME	MSG		This course is designed to teach students the basic principles of

							Radiation Oncology.
MEL	7805	Trauma Surgery Elective	var.	ME	MSG		Students electing this course will work with the residents and faculty in the Division of Trauma in the surgical ICU, floors, ER and OR.
MEL	7954	Honors Clin Interdisciplinary Elect-Clin Educators		ME	MSG		This elective is designed to introduce senior medical students to the role of an academic physician across disciplines as well as encourage the exploration of positive teaching practices.
MEL	8130	The Clinical Performance Examination	var.	ME	MSG		A case-based examination to assess students' level of knowledge, attitudes and skills in patient care.
MEL	8131	The Comprehensive Clinical Evaluative Encounter	var.	ME	MSG		To assess student ability to conduct a comprehensive history and physical examination and develop and deliver a comprehensive management plan to the patient, based upon this interaction.
MEL	8251	Acting Internship Family Medicine	var	ME	MSG		The student is expected to function as a Family Medicine intern under the direct supervision of the senior resident.
MEL	8266	Women's Health - A Lifespan Perspective	var	ME	MSG		This elective is an interdisciplinary course that explores women's health chronologically from birth to the elderly years.
MEL	8272	Women's Health Elective	var.	ME	MSG		Familiarize the student with the practice of gender-specific medicine, women’s preventive health, and obstetrics and gynecology.
MEL	8273	Family Medicine Flexible Elective	var.	ME	MSG		The student is expected to design their elective in advance with Family Medicine faculty and to take an active role in the assessment and management of patients.
MEL	8307	Hospital Medicine	var	ME	MSG		This is a broad-based general hospital internal medicine experience.
MEL	8369	Outpatient Subspecialty Clinics in Internal Medicine	var.	ME	MSG		The student will spend time with a selected medical specialist located primarily in the USF Medical Clinics. The exact mix of experience will be tailored to the student's preference.
MEL	8376	Respiratory Disease Research	var.	ME	MSG		Allergic & immunologic problems affect up to 20% of adults and children in the United States, therefore students rotating in Allergy & Immunology are exposed to a variety of common problems important to physicians regardless of their specialty interests.
MEL	8390	Hepatology Elective	var	ME	MSG		The student may expect to achieve a level of competence in managing common and uncommon disorders of the liver and managing patients with end stage liver disease as well as exposure to the management of liver transplant patients.
MEL	8597	Research Elective in Pediatric Infectious Disease	var	ME	MSG		This elective is an independent study rotation under the direction of the Pediatric Infectious Disease

							attendings and will expose the student to clinical research.
MEL	8608	Memory Disorders Clinic	var	ME	MSG		This elective is designed to provide interested senior medical students with an advanced experience in the evaluation and treatment of Memory Disorder Clinic patients.
MEL	8621	Mood Disorders Across the Life Cycle	var.	ME	MSG		This elective is designed to provide interested senior medical students an intense clinical training and research in mood disorders.
MEL	8666	Neuroimmunology Research in Psychiatry		ME	MSG		This elective is designed to teach medical students basic aspects of research in neuroimmunology.By working one on one with each student in the laboratory,the student will experience and learn the finer details of the technical aspects of experimentation.
MEL	8667	Cognitive Medicine, Neuropsychiatry, Neuroscience		ME	MSG		This elective is designed to provide interested senior medical students an intense clinical training and research in the neurosciences and neuropsychiatry.
MEL	8901	Aging, End-of-Life Issues in Literature/Film/Art	var	ME	MSG		The object of this elective is to provide consideration of portrayals of aging and end-of-life issues using humanities tools. Students explore these issues in medical text and clinical experiences, but this course provides a different perspective.
MEL	8902	Medicine and the Arts: NYC Voices and Visions	var.	ME	MSG		This course is designed to introduce students to a broad examination of visions & voices occurring in various forms of the arts. Materials selected for this course emphasize the telling of a story from non-scientific, non-objective perspectives.
MEL	8953	Integrative Clinical Services	var.	ME	MSG		This elective offers fourth year medical students a review of pertinent skills for a smoother transition to internship.
MET	6140	Weather, Climate, and Society	3	AS	GPY	PR: Undergraduate general meteorology or CI.	This course explores the societal impacts of weather as well as the human impact on weather and climate. Students lead and participate in discussions
MHF	5306	Mathematical Logic and Foundations I	3	AS	MTH	PR: MAS 4301 or CI.	Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.
MHF	5402	The Early History of Mathematics	3	AS	MTH	PR: MAC 2312	A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.
MHF	5405	History of Modern Mathematics	3	AS	MTH	PR: MAC 2313.	Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.
MHF	6307	Mathematical Logic And Foundations II	3	AS	MTH	PR: MHF 5306	Continuation of MHF 5306.

MHS	5020	Foundations of Mental Health Counseling	3	AS	REH	PR: CC.	A skill-building course on the utilization of one's self in mental health counseling relationships. Includes study of the origin, history, professional functions and current issues in the discipline of mental health counseling.
MHS	5480	Human Growth and Development	3	AS	REH	PR: RCS 5780, MHS 5020, Majors only.	Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.
MHS	5905	Directed Studies	1-4	ED	EDG		Independent studies on a selected topic.
MHS	6006	Trends and Principles of the Counseling Profession	4	ED	EDG	PR: CI	A study of trends in the counseling profession, its philosophical framework, its scope and functions, its organizations and administration. Introduction to basic skills needed in the counseling relationship.
MHS	6021	Counseling in Community Settings	3	ED	EDG	PR: MHS 6006, MHS 6070, MHS 6200, MHS 6340, MHS 6400, MHS 6420, MHS 6470, MHS 6509, MHS 6700. CR: MHS 6800.	The study of community counseling within the context of health and human service systems including treatment modalities, administration, and fiscal considerations.
MHS	6070	Study of Mental Disorders for Counselors	3	ED	EDG	PR: MHS 6006 or CI.	A study of mental disorders emphasizing recognition of behavioral symptoms so that counselors may apply appropriate helping approaches or refer clients for further diagnosis and treatment.
MHS	6072	Epidemiology and Prevention in Children's Mental Health	3	FM	FMH		Provides introduction to epidemiological research methods in children's mental health; prepares professionals to critically evaluate research literature and to design studies to better affect children's mental health. Unrestricted. Nonrepeatable.
MHS	6073	Child and Adolescent Psychopathology and Resilience	3	FM	FMH		Students will gain basic knowledge about psychological disorders necessary to assess/treat/serve children, adolescents, and their families. Factors that promote resilience and build competencies will be explored. Unrestricted. Nonrepeatable.
MHS	6095	Family-Centered Interdisciplinary Practice: SOC	3	FM	FMH		Provides an overview of a SOC approach to children's mental health; prepares professionals to work in respectful partnership with families/youth and to participate in interdisciplinary teams serving children and their families. Unrestricted. Nonrepeatable.
MHS	6096	Program Development and Implementation in Children's Mental Health	3	FM	FMH		Course introduces students to the science of implementation and key frameworks, theories, strategies; includes critical elements, influences, stages applied to carry out successful implementation of initiatives. Unrestricted. Nonrepeatable
MHS	6097	Financing of Children's Mental Health Services	3	FM	FMH		Addresses theoretical, evaluative, political issues regarding financing of children's mental health

							services; will further students' critical thinking about financing strategies/structures that support effective systems of care. Unrestricted/nonrepeatable.
MHS	6098	Leadership within Systems of Care	3	FM	FMH		Introduces students to various theories of leadership and empirical evidence linking leadership competencies to organizational and community success in children's mental health, emphasizing real-world challenges and solutions. Unrestricted. Nonrepeatable.
MHS	6200	Assessment and Appraisal Procedures	4	ED	EDG	PR: MHS 6006.	The study of statistical concepts, assessment instruments and procedures relevant to school and community counseling with an emphasis on standardized test data and the use of an individual case study approach.
MHS	6201	Applied Behavior Analysis in Complex Community Environments	3	FM	FMH		Prepares students to recognize factors that may affect the application of behavior analysis principles within and across community settings and to design intervention plans that fit given characteristics of the social and physical context of these home, school and other community settings.
MHS	6311	Online Services in Counseling and Helping Professions	2	ED	EDG		The course is designed to prepare future counselors to use online services in counseling and related helping professions.
MHS	6340	Career Development	4	ED	EDG	PR: MHS 6006.	Study of the information service in guidance as it relates to life style and career development. Theories dealing with career planning. Application of educational, vocational, and personal-social information resources to lifelong human development.
MHS	6341	Career Program Design and Evaluation	3	ED	EDG	PR: MHS 6006	Study of the various components of designing, implementing, managing and evaluating effective career programs.
MHS	6400	Counseling Theories and Practices	4	ED	EDG	PR: EDF 6354 and MHS 6006.	This course is the study of the nature of the counseling process with emphasis on major theoretical approaches and related personality theories, development of basic counseling skills and supervised practice.
MHS	6418	School Counselor Accountability and Curriculum	3	ED	EDG	PR: MHS 6006.	This course prepares school counselors to assume their role and responsibilities in meeting the demands of school reform. Students compile instructional guidance units, using evidence-based content and strategies, to facilitate K-12 student development.
MHS	6420	Multicultural Counseling with Diverse Populations	3	ED	EDG	PR: MHS 6400.	Counseling strategies applied to diverse populations including the use of school and community resources. Each student will select a specific population group for supervised research.

MHS	6421	Counseling Children	4	ED	EDG	PR: EDF 6354 and MHS 6006.	Nature of the counseling process with an emphasis on major theoretical approaches, supervised practice, and application. Focus on work with elementary age children and consultations with parents, teachers and other professionals.
MHS	6430	Dynamics of Marriage & Family Systems Theory	4	ED	EDG	PR: MHS 6400.	The major theoretical approaches to systems therapy including strategic, structural, contextual, object-relations and Adlerian models are presented. Also included is the investigation of transgenerational problems and symbolic structures in families as they relate to General Systems Theory.
MHS	6431	Family Therapy & Techniques	4	ED	EDG	PR: MHS 6430.	This course concentrates on the theory and application of intervention techniques to family systems. Structured experiences include interviewing, assessing, making therapeutic interventions, observing family interaction, and developing basic aspects in treating families.
MHS	6432	Marriage Therapy	4	ED	EDG	PR: MHS 6430.	A study of the marriage relationship with emphasis on issues of premarital, marital, divorce, intimacy, and conflict management. Course activities introduce students to a wide variety of therapy procedures and intervention strategies.
MHS	6450	Counseling Substance Abuse in School and Community	4	ED	EDG	PR: MHS 6400.	This course prepares counselors to work with substance abuse issues, including prevention, in schools and community out-patient settings. Includes counseling and program approches found to be effective in addressing substance abuse.
MHS	6470	Human Sexuality Issues for Counselors	4	ED	EDG	PR: MHS 6400.	Emphases include exploration of various dimensions of human sexuality; dynamics of major individual and societal sexuality issues; theoretical approaches to counseling related to sexuality issues.
MHS	6509	Group Counseling Theories and Practices	4	ED	EDG	PR: MHS 6400.	An experiential study of group structure, group dynamics, methodology, and leadership models applicable to counseling clients in school and community settings. Includes skill building through supervised practice.
MHS	6601	Consultation for the Counseling Profession	3	ED	EDG	PR: MHS 6400 and MHS 6006. Non-majors need instructor's approval.	A study of consultation theory and practice as used by counselors working in schools and mental health facilities, particularly with educators, other professionals, and parents, individually and in groups.
MHS	6620	Counseling in Community Setting	3	ED	EDG		Study of community counseling within the context of health and human service systems including treatment modalities, administration, and fiscal

							considerations.
MHS	6645	Mental Health Informatics	3	FM	FMH		This course examines how information technologies and knowledge management affect access to mental health and impact policy. Current applications include the management of mental health databases and the development of behavioral telehealth programs.
MHS	6700	Legal and Ethical Issues in the Counseling Profession	3	ED	EDG	PR: MHS 6006.	Study of legal, ethical and related issues affecting the role and responsibilities of counselors in schools and mental health facilities.
MHS	6800	Practicum in Counseling Adolescents and Adults	4	ED	EDG	PR: MHS 6400. S/U. DPR.	Supervised counseling for integration and application of knowledge and skills gained in didactic study.
MHS	6885	Internship in Community Agency Counseling	3	ED	EDG		Field experience involving one semester of full-time participation in the counseling and related activities of a public or private agency providing mental health services to the community.
MHS	6887	Internship in Career and College Counseling	3-6	ED	EDG	PR: MHS 6800, MHS 6006, MHS 6200, MHS 6340, MHS 6341, MHS 6400, MHS 6420, MHS 6700, EDF 6481; CR: MHS 6601.	Field experience (1 semester full-time or 2 semesters of part time participation) in career and/or college counseling and related activities of a public or private career center or college center/site/agency. It is restricted to counseling students.
MHS	6900	Special Topics in Planning, Evaluation and Accountability	1-3	FM	FMH		This course will address selected special topics. Prerequisite is at least three credits in research and evaluation courses at the graduate level.
MHS	6905	Individual Study	1-4	ED	EDG	PR: DPR.	Independent study, research, and experience relating to professional counseling under the supervision of a member of the Counselor Education faculty.
MHS	6906	Independent Study in Behavior Analysis Applications in Community Settings	1-6	ED	EDG	PR: Program approval required - FAO 126.	Independent study in behavior analysis provides students opportunities to focus on special areas of study under a contractual agreement with a faculty member.
MHS	6930	Seminar In Guidance	1-4	ED	EDG	PR or CR:MHS 6006, DPR. S/U.	Significant issues in the field of guidance; will document student's effectiveness in providing effective programs that contribute to the academic missions of the school. Repeat up to 4 hours.
MHS	6938	Applied Behavior Analysis in Community Settings	1-4	ED	EDG		Addresses selected topics in behavior analysis applications in complex community environments through lecture, class discussion, and supervised special projects.
MHS	6940	Practicum in Behavior Analysis in Community Settings	2-4	ED	EDG	PR: Program approval required - FAO 126.	Supervised field work in the application of behavior analysis to children, adults and/or their families in complex community environments, including home, school, employment and neighborhood settings.
MHS	6970	Thesis: Masters/Educational Specialist	2-19	ED	EDG	S/U. MA/EdS Candidates only.	

MHS	6971	Thesis in Applied Behavior Analysis	2-6	ED	EDG	PR: Program approval required - FAO 126.	The Thesis credits will provide students the opportunity to conduct independent applied behavior analysis single subject experimental design studies, or special research projects related to applications in community settings.
MHS	7401	Advanced Counseling: Theories and Practicum	4	ED	EDG	PR: CI.	Advanced study of major counseling theories and their application in therapeutic work with individual clients and with groups in a variety of settings. Supervised practice in individual and group counseling with emphasis on integration of theory and practice.
MHS	7610	Supervision: Theories and Practicum	4	ED	EDG	PR: CI.	Theory and methodology of consultation; the role of the counseling professional as consultant and as a supervisor of counselor trainees and counseling practitioners. Practice learning experiences in consulting and supervision under faculty direction.
MHS	7740	Survey Course in Planning, Evaluation and Accountability	3	ED	EDG	PR: Masters in field related to human services or at least 16 credits toward a masters degree.	This introductory course is designed to provide a comprehensive overview of planning, evaluation and accountability methods within a systems context. Emphasis is placed on a broad range of quantitative and qualitative methods.
MHS	7930	Advanced Seminar in Counselor Education	2	ED	EDG	PR: DPR. S/U.	Seminar for advanced graduate students in counselor education. Issues and trends in professional counseling will be addressed.
MHS	7980	Dissertation	2-30	ED	EDG	PR: Admission to Candidacy.	
MMC	6206	Mass Communications Ethics	3	AS	COM	PR: GS in Mass Communications or CI.	An introduction to fundamental ethical principles and an application of those principles to a variety of situations in journalism, broadcasting, advertising, and public relations.
MMC	6306	International Communications Seminar	3	AS	COM	PR: CC.	Mass communications as national and international systems; flow of the news, international news communications networks; satellite communications; overseas activities of American media interest; international propaganda; communication and national development; international media organizations and their activities.
MMC	6400	Mass Communication Theory	3	AS	COM	PR: CC.	The study of mass communication theories, structures, influences, and their relationships to institutions in American society.
MMC	6415	Strategic Communication Media	3	AS	COM	PR: PUR 5505.	This concepts course emphasizes strategic thinking in media planning for communication campaigns. Students learn the process of critically evaluating media, purchasing media outlets, scheduling media weight and evaluating media impact. Nonrestricted.
MMC	6418	Strategic Message	3	AS	COM		This seminar covers the

		Design					development of strategic messages for particular audiences to accomplish communication objectives. Topics are research, planning, persuasion, message strategies, and message evaluation. Unrestricted and not repeatable for credit.
MMC	6421	Research Methods in Mass Communications	3	AS	COM	PR: CC.	The theory and practice of quantitative, historical, and critical research methods, and their applications to the study of mass communications. Emphasis in quantitative methods on experimental and survey research, statistical analysis, and evaluation of data.
MMC	6607	Public Opinion and the Mass Media	3	AS	COM	PR: CC.	The influence of public opinion on private and public institutions in a democratic society and the role of the mass media in opinion formation. The nature of persuasion in establishing or modifying public opinion, and perspectives on the social responsibilities of communications.
MMC	6612	Seminar: Law and the Mass Media	3	AS	COM	PR: CC.	Interrelationships of the media and government at the judicial, executive, and legislative levels. Focus is on legal limitations and privileges of the media; theory and philosophy of the First Amendment; research procedures in court and administrative agency documents.
MMC	6900	Directed Reading in Mass Communications	1-3	AS	COM	PR: CI and permission of graduate advisor. S/U.	Readings in specialized areas of mass communications as agreed to by the instructor and the student by contract.
MMC	6910	Individual Research in Mass Communications	1-3	AS	COM	PR: CI and permission of graduate advisor. S/U.	Independent study in which the student must have a contract with the instructor to study an area not covered by other courses in the graduate curriculum.
MMC	6920	Introductory Mass Communications Seminar	3	AS	COM	PR: CC.	Introduction to the aims and methodologies of graduate study in mass communications, its development and relationship to the arts and sciences, and the relationship of the scholarly aspects of media studies to professional media practice; bibliographical resources, and overview of research methods and scholarly style.
MMC	6936	Selected Topics in Mass Communications	3	AS	COM	PR: CC.	Courses designed to meet current, specific topics of interest to students and instructors.
MMC	6945	Professional Practicum	3	AS	COM	PR: 12 graduate hours in mass communications and CC. S/U.	Practicum will consist of placement with a media-related organization selected by the student and approved and supervised by the graduate advisor.
MMC	6950	Applied Research Project	3	AS	COM	PR: CI and permission of graduate advisor. S/U.	Completion of a major applied communication research project under supervision. Topic will be selected according to student's needs and interests.
MMC	6971	Thesis: Master's	2-	AS	COM	PR: CI and	

			3			permission of graduate advisor. S/U. Students must take minimum of 6 hours.	
MTG	5256	Differential Geometry	3	AS	MTH	PR: MAA 4211, MAS 3105.	Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.
MTG	5316	Topology I	3	AS	MTH	PR: MAA 4211.	Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces.
MTG	5317	Topology II	3	AS	MTH	PR: MTG 5316.	The fundamental group; elements of homotopy theory and homology theory.
MUC	5625	Jazz Composition	2	VP	MUS	PR: CI. Required of all composition majors.	Private instruction in original composition.
MUC	6251	Composition	4	VP	MUS	PR: DPR.	Private instruction in original composition. Required of composition majors.
MUC	6444	Electronic Music/Analog/Digital Systems Research I	3	VP	MUS	PR: DPR.	State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.
MUC	6445	Electronic Music/Analog/Digital Systems Research II	3	VP	MUS	PR: DPR.	State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.
MUC	6625	Seminar In Jazz Compositional Styles	2	VP	MUS	PR: DPR.	A seminar study of the major compositional figures in jazz. Oriented toward the continuing development of students' own writing ability.
MUC	6626	Jazz Composition	4	VP	MUS	PR: CI. Required of all composition majors.	Private instruction in original composition.
MUE	6080	Foundations And Principles Of Music Education	3	VP	MUS	PR: Acceptance into Music Education Graduate Program or DPR.	Investigation of historical, philosophical, and psychological foundations of music education.
MUE	6097	Music, Medicine, and Myths	2	VP	MUS	PR: Graduate standing and upper-level undergraduate with advisor's permission.	The course focuses on integration of the body, mind, and emotion in music learning and performing; causes, prevention, and treatment of music-related injury; rehabilitation and effective management of performance anxiety.
MUE	6116	Advanced Techniques and Research in K-12 General Music	3	VP	MUS	PR: Acceptance in the Music Education Graduate Program or DPR.	This course focuses on teaching and learning processes in general music education K-12. Students examine research and best practices in the field with the aim of improving their own skills in developing comprehensive musicianship in students.
MUE	6336	Advanced Techniques and Research in Vocal/Choral Music Education	3	VP	MUS	PR: Acceptance in the Music Education Graduate Program or DPR.	Course provides for graduate students in music education the opportunity to examine current research related to the teaching of secondary school vocal music, evaluate curricula, music materials, and teaching methods that will enable them to develop a

							vocal music program that emphasizes musical sensitivity.
MUE	6347	Advanced Techniques and Research in Instrumental Music Education	3	VP	MUS	PR: Acceptance in the Music Education Graduate Program or DPR.	This course focuses upon teaching and learning processes in instrumental music, and the stimulation of student thought regarding the variety of roles a music teacher may assume to assist students to become musically literate and aesthetically sensitive.
MUE	6648	Techniques and Research in Alternate Music Education Methods	3	VP	MUS	PR: MUS 6520	An examination on new and innovative models of music instruction including (but not limited to): composition courses; high school general music formats; general arts structures; and, alternative performing ensembles.
MUE	6906	Independent Study: Music Education	1-6	VP	MUS	S/U. DPR.	Independent study in which students must have a contract with an instructor.
MUE	6942	Graduate Internship in Music Education	6	VP	MUS		This course is designed to provide the student teaching experience for music education graduate students pursuing an MA - Plan II, leading to certification.
MUE	6971	Thesis: Masters/Eds	2-19	VP	MUS	PR: DPR.	
MUE	7746	Measurement and Evaluation in Music	2	VP	MUS		This course is designed to provide students with a comprehensive overview of traditional and contemporary approaches to the measurement, evaluation, and assessment of musical abilities, activities, and experiences.
MUE	7786	Qualitative Methods of Music Education	2	VP	MUS		This course is designed to acquaint students with foundations, methods, and applications of qualitative research in education and music education.
MUE	7815	Psychology of Music	3	VP	MUS	PR: Acceptance in the Music Education Graduate Program, a graduate level educational psychology course or its equivalent, or DPR.	A critical examination of current findings regarding the phenomena of the psychology of musical behaviors including the investigation of musical acoustics, the measurement of musical abilities, and a comparative study of theories of learning related to musical learning.
MUE	7816	Music Cognition	2	VP	MUS		A critical examination of theories and research in music cognition in relation to perception and developmental psychology.
MUE	7835	Philosophical and Historical Issues in Music Education	3	VP	MUS	PR: Acceptance in the Music Education Graduate Program or CI.	A course design to investigate the nature of philosophical issues as they pertain to music education theory and practice.
MUE	7855	International Perspectives in Music Education	2	VP	MUS		A critical examination of music education in various nations from social, cultural, political, and philosophical perspectives.
MUE	7937	Special Topics in Music Education	2-3	VP	MUS	PR: Dept. Approval Required	This course will provide an opportunity to examine selected topics in the research of choral, instrumental, general, and alternative music instruction models.
MUE	7939	Seminar in Music	1-	VP	MUS	PR: Admisison to	Examination of theory and

		Education Research	2			Ph.D. Program	research in music education. Current research in music teaching and learning presented by faculty abd guests. Students develop their dissertation topics, preliminary review of literature, and present their research proposals. May be repeated 4 times for up to 6 credits. S/U Grading
MUE	7980	Dissertation	2-19	VP	MUS	PR: Admitted to Candidacy. S/U. DPR.	
MUE	7990	Seminar on Music in Higher Education	2	VP	MUS	PR: Dept. Approval Required	The course will examine issues germane to the ways and contexts (liberal arts college, land grant college, research university, conservatory) in which music functions as a discipline in American higher education. It will trace its roots from the medieval European university (in the quadrivium) to the present. It slso will speak to a range of contemporary issues, including but not limited to rank, promotion, tenure, creative activities as a research endeavor, accreditaion, curricular innovation, etc.
MUG	6256	Choral Literature And Conducting I	4	VP	MUS	PR: DPR.	Combination of seminar, classroom, and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.
MUG	6257	Choral Literature And Conducting II	4	VP	MUS	PR: DPR.	Combination of seminar, classroom, and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.
MUG	6258	Choral Literature And Conducting III	4	VP	MUS	PR: DPR.	Combination of seminar, classroom, and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.
MUG	6307	Band/Wind Ensemble Conducting	3	VP	MUS	PR: DPR.	Combination of lecture, seminar, laboratory and individual instruction experiences designed to provide development of advanced conducting skills.
MUG	6930	Advanced Choral Techniques	3	VP	MUS	PR: DPR.	Study designed to provide rehearsal techniques, methods, and resources for the choral conductor. When possible, the choral faculty will present this course in a team-teaching fashion.
MUL	6205	Advanced Choral Conducting	2	VP	MUS	PR: Dept. Approval Required.	Combination of private study and laboratory experiences designed to teach conducting technique and rehearsal skills while encouraging leadership qualities in the choral conductor.
MUL	6375	Twentieth Century Music Literature	3	VP	MUS	PR: DPR.	A study of the literature, compositional techniques, and music philosophies of the major 20th century composers from Debussy to the present.
MUL	6410	Keyboard Repertory I	2	VP	MUS	PR: DPR.	A study of style, history, and performance practice in keyboard repertory including masterworks of

							all periods.
MUL	6411	Keyboard Repertory II	2	VP	MUS	PR: DPR.	A study of style, history, and performance practice in keyboard repertory including masterworks of all periods.
MUL	6505	Symphonic Literature	2	VP	MUS	PR: DPR.	A chronological study of the development of orchestral music; analysis and study of major works from a stylistic and biographical perspective.
MUL	6555	Band/Wind Ensemble Literature	3	VP	MUS	PR: DPR.	Combination of seminar and classroom experiences designed to provide depth in historical study of band and wind ensemble literature. Rpt. Up to 9 hrs.
MUL	6565	Chamber Music Literature	2	VP	MUS	PR: DPR.	A survey and stylistic analysis of chamber music repertory from 1750 through the present day.
MUL	6624	Song Literature I	2	VP	MUS	PR: DPR.	Solo song literature from the 17th century through the contemporary with emphasis on German lieder, French songs, and contemporary English and American songs; special emphasis on performance.
MUL	6625	Song Literature II	2	VP	MUS	PR: DPR.	Solo song literature from the 17th century through the contemporary with emphasis on German lieder, French songs, and contemporary English and American songs; special emphasis on performance.
MUL	6655	Choral Literature 1500-1800	3	VP	MUS	PR: Dept. Approval Required.	A study and analysis of choral music from 1500-1800.
MUL	6656	Choral Literature 1800-present	3	VP	MUS	PR: Dept. Approval Required.	A study and analysis of choral music from 1800-present.
MUL	6671	Opera Literature	2	VP	MUS	PR: DPR.	A chronological study of the development of opera from 1600 to the present; emphasis on the technical, stylistic, and performance aspects of opera.
MUL	6687	Solo Vocal Literature In Oratorio	2	VP	MUS	PR: DPR.	A survey of literature for the solo voice in cantatas and orchestral music.
MUN	6145	Wind Ensemble	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.
MUN	6215	University Orchestra	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.
MUN	6315	University Singers	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.
MUN	6345	Chamber Singers	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or

							percussion instruments, and piano.
MUN	6385	University-Community Chorus	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.
MUN	6416	String Quartet	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6429	Woodwind Quintet	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6435	Brass Choir	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6436	Brass Quintet	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6437	Horn Quartet	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6445	Percussion Ensemble	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6446	Marimba Ensemble	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6455	Piano Ensemble	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.
MUN	6456	Piano Ensemble	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string,

							woodwind, brass or percussion instruments.
MUN	6477	Collegium Musicum	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUN	6715	Jazz Ensemble	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.
MUN	6716	Jazz Chamber Ensemble	1	VP	MUS	PR: DPR.	Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.
MUO	6505	Opera Workshop	1	VP	MUS	PR: DPR.	Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.
MUS	5905	Directed Study	1-4	VP	MUS	PR: DPR.	Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.
MUS	6520	Computer Applications in Music Education	3	VP	MUS		An examination of the teaching and learning processes in music as they are affected by music technology. Through the course, students will explore a variety of music software types and investigate the potential role of technology in music education.
MUS	6793	Techniques Of Research In Music And Music Education	3	VP	MUS	PR: DPR.	A study of the methods of research and professional bibliography and with an individual, formal project as a terminal requirement.
MUS	6906	Independent Study	1-19	VP	MUS	PR: DPR,S/U.	Independent study in which student must have a contract with an instructor.
MUS	6910	Directed Research	1-19	VP	MUS	PR: GR. ML, DPR, S/U.	
MUS	6971	Thesis: Master's	2-19	VP	MUS	PR: DPR, S/U	
MUS	6976	Graduate Recital	2	VP	MUS	PR: DPR	
MUT	5051	Graduate Review Of Music Theory	2	VP	MUS	PR: DPR.	A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and does not count toward the graduate degree requirements.
MUT	6545	Analysis of 18th and 19th Century Music	3	VP	MUS	PR: CI.	An in-depth examination of the music of the 18th and 19th centuries. Students provide detailed analyses of selected works and read appropriate scholarly writings. Additional

							activities may include in-class presentations and a research paper.
MUT	6586	Critical Analysis-History	2	VP	MUS	PR: DPR.	A study of historical developments of music in western civilization. Emphasis on a different historical period each semester, from the Middle Ages through the Romantic Period.
MUT	6626	Analysis of Twentieth Century Music	3	VP	MUS	PR: CI.	An in-depth examination of representative works. Students will learn analytical techniques such as set theory and 12-tons techniques, read scholarly articles, give in-class presentations, and write a research paper to gain an understanding of the theoretical and musical trends of the 20th-century.
MUT	6627	Schenkerian Analysis	3	VP	MUS		A study in theories and analytical methods developed by German theorist Heinrich Schenker. Students are expected to demonstrate their knowledge of these theoretical concepts by analyzing relevant literature, investigating scholarly articles, giving class presentations, and writing a research paper.
MUT	6665	Seminar Jazz Styles And Analysis	2	VP	MUS	PR: DPR.	A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability.
MUT	6751	Teaching of Music Theory	3	VP	MUS	PR: DPR.	Comparative study of teaching, techniques, procedures, and materials used in teaching visual and aural theory.
MUT	6760	History of Music Theory	3	VP	MUS	PR: DPR.	Evolutionary history of the materials of western music including tuning systems, scales, models, tonality, rhythm, counterpoint and harmony; also the exploration of treatises and theorists contributing to the evolution.
MVB	5251	Applied Trumpet	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVB	5252	Applied French Horn	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVB	5253	Applied Trombone	2	VP	MUS	PR: DPR. Open to	Private and class instruction.

						senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	
MVB	5254	Applied Euphonium	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVB	5255	Applied Tuba	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVB	6451	Applied Trumpet	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVB	6452	Applied French Horn	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVB	6453	Applied Trombone	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVB	6454	Applied Euphonium	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVB	6455	Applied Tuba	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVJ	5250	Applied Jazz Piano Secondary	2	VP	MUS	PR: Necessary competency	Private and class instruction.

						determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	
MVJ	5252	Applied Jazz Bass Secondary	2	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	5253	Applied Jazz Guitar Secondary	2	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	5254	Applied Jazz Bass Secondary	2	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	5259	Applied Jazz Percussion Secondary	2	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	5951	Applied Jazz Performance	2	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	6460	Applied Jazz Piano Major	4	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	6463	Applied Jazz Guitar	4	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance	Private and class instruction.

						ensemble.	
MVJ	6464	Applied Jazz Bass	4	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	6469	Applied Jazz Percussion	4	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVJ	6952	Applied Jazz Performance	4	VP	MUS	PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.	Private and class instruction.
MVK	5251	Applied Piano	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVK	6451	Applied Piano	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVK	6650	Graduate Piano Pedagogy I	2	VP	MUS	PR: GS in performance and DPR	Emphasis on techniques used in teaching the individual student in performance.
MVK	6651	Graduate Piano Pedagogy II	2	VP	MUS	PR: GS in performance and DPR	Emphasis on techniques used in teaching the individual student in performance.
MVP	5251	Applied Percussion, Secondary	2	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVP	6451	Applied Percussion	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVS	5251	Applied Violin	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate	Private and class instruction.

						students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	
MVS	5252	Applied Viola	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVS	5253	Applied Cello	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVS	5254	Applied Double Bass	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVS	6451	Applied Violin	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVS	6452	Applied Viola	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVS	6453	Applied Violoncello	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVS	6454	Applied Double Bass	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.

MVV	5251	Applied Voice	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVV	6451	Applied Voice	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVW	5251	Applied Flute	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVW	5252	Applied Oboe	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVW	5253	Applied Clarinet	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVW	5254	Applied Bassoon	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.	Private and class instruction.
MVW	5255	Applied Saxophone	2	VP	MUS	PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and	Private and class instruction.

						students who have a secondary applied music requirement.	
MVW	6451	Applied Flute	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVW	6452	Applied Oboe	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVW	6453	Applied Clarinet	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVW	6454	Applied Bassoon	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
MVW	6455	Applied Saxophone	4	VP	MUS	PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.	Required of all applied music majors. Private and class instruction.
NGR	5151L	Accelerated Fundamentals Clinical	2	NU	NUR		Clinical experience in fundamentals of clinical nursing practice. Focuses on developing effective communication skills, critical thinking physical assessment, and concepts of health and illness to meet basic needs of the individual across the life span.
NGR	5580L	Accelerated Fundamentals Clinical I	4	NU	NUR		Clinical intervention for patients with selected physical and mental health problems. Emphasis is on advancing communication and clinical judgment skills in therapeutic nursing interventions for patients across the life span.
NGR	5680L	Accelerated Fundamentals Clinical II	4	NU	NUR		Clinical experiences with people across the life-span in hospital and community sites, focus on critical thinking, effective communication, therapeutic interventions, disease prevention, health promotion and synthesis of nursing theory with practice.
NGR	5871	Informatics in Nursing and Healthcare	3	NU	NUR	PR: CI.	Foundations course with emphasis on essential content and applications in healthcare informatics and clinical systems. Provides understanding of the interdisciplinary issues in medical and nursing informatics and a

							foundation for those seeking expertise in healthcare informatics. Focus on technologies in healthcare, nomenclatures and classification systems, health care documentation, electronic medical records, and web-based technologies for healthcare.
NGR	6001	Health Assessment in Advanced Practice	3	NU	NUR		An advanced history and physical examination course designed to increase students' competency in obtaining and recording systematic, integrated histories and physical examinations. The course covers examination across the human life span.
NGR	6042	Advanced Health Assessment for the Older Adult	1	NU	NUR		Focus on advanced history and physical examination skills with older adults.
NGR	6054	Cancer Biology I	4	NU	NUR		An introduction to the basics of molecular oncology. Topics will include cytoplasmic and nuclear oncogenes, cell cycle control, apoptosis, tumor suppressor genes and cancer drug discovery.
NGR	6055	Cancer Biology II	4	NU	NUR		A continuation of Cancer Biology I. Topics will include a comprehensive review of immunology as it relates to cancer and modern methods of cancer treatment.
NGR	6056	Cancer Research Techniques	4	NU	NUR		An introduction to modern core research facilities and methodologies used in cancer research.
NGR	6057	Current Topics in Oncology	2	NU	NUR		Renowned speakers from outside the USF Community will give weekly seminars on topics in oncology. Participants will meet weekly with the speakers and discuss the current state of the art.
NGR	6060	Medical Laboratory Interpretation for the Advanced Practice Nurse	1	NU	NUR		Interpretation of common medical laboratory results for the Advanced Practice Nurse with focus on the differential diagnosis.
NGR	6080	Family and Population-Based Health Promotion	3	NU	NUR	PR: NGR 6121; CI.	Focuses on the assessment of family and population groups for the purpose of planning, implementing, and evaluating nursing interventions for health promotion, health maintenance, and disease and injury prevention.
NGR	6096	Oncology Nursing Concepts	3	NU	NUR	CI.	Provides advanced oncology nursing content with a focus on nursing management of physical problems resulting from cancer and its treatment. (CI)
NGR	6121	Theoretical Foundations and Professional Role Development	3	NU	NUR	CI.	Examination of knowledge development in nursing science, critique and evaluation of theories from nursing and related fields. Professional role development is emphasized to facilitate transition into advanced nursing practice roles.
NGR	6135	Ethical, Legal, and Policy Issues in Advanced Nursing Practice	3	NU	NUR	CI.	Primary emphases on contemporary ethical, legal, and policy issues related to advanced nursing practice and health care

							delivery. Issues are analyzed at the global, national, and local levels. Nursing's role in agenda setting and strategies for health care reform are presented.
NGR	6137	Bioethics in Contemporary Society	3	NU	NUR		Ethical issues related to health and illness encountered during stages of the life cycle, focusing on the influences exerted by cultural diversities and psychosocial factors, including the bi-directional interaction between the individual and society.
NGR	6140	Pathophysiology for Advanced Practice	3	NU	NUR	CI.	Central concepts of pathopsysiology: cells and tissues and organs and systems. Provides essential knowledge base in pathophysiology across the life span for advanced nurse practitioners.
NGR	6142	Pathobiology Of Neoplasia	3	NU	NUR	CI.	Emphasizes basic concepts of cellular differentiation and the abnormal cytological changes occurring in the pathogenesis of Neoplasia. Also emphasized is the role of the advanced practice nurse in relation to the role of the immune system and diet in oncogenesis, and the epidemiology and pathology of specific types of cancers.
NGR	6143	Pathophysiologic Concepts in Acute Care Nursing	3	NU	NUR	PR: NGR 6140; NGR 6121; CI.	This course will explore pathophysiologic mechanisms of the major body systems in critically ill patients across the lifespan.
NGR	6175	GeroPharmacology for Advanced Nurse Practitoners	1	NU	NUR		Focus on pharmacokinetic and pharmacodynamic changes unique to the elderly along with the potential adverse drug effects and factors that affect therapeutic decision-making.
NGR	6194	Substance Abuse Across the Lifespan	3	NU	NUR		this course introduces the student to concepts of substance abuse and theories of addiction. The applicability of theories and concepts to clinical assessment, diagnosis and intervention with coient populations across the lifespan is explored.
NGR	6197	Nursing Interventions into the Effects of Drug and Alcohol Abuse	2	NU	NUR		Focuses on the assessment and treatment of individuals and families who are in the acute phase of addiction. Emphasis will be placed on treatment outcomes for designated populations with consideration for cultural, socioeconomic, political, and legal/ethical factors.
NGR	6198	Nursing Interventions in the Rehabilitation of Clients with Drug or Acohol Abuse	2	NU	NUR		Focuses on models of treatment and interventions for clients and families who are in the rehabilitation and maintenance phases of substance abuse. Emphasis will be placed on rehabilitation outcomes for designated populations with consideration for cultural, socioeconomic, political and legal/ethical factors.

NGR	6199	Pharmacology for Advanced Practice	3	NU	NUR		Pharmacotherapeutics for the advanced practice nurse. Focus on pharmacokinetics, therapeutic and adverse effects, drug interactions, and evidence-based prescribing guidelines.
NGR	6205	Primary Care : Adolescents	2	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199.	Course provides content in assessment, analysis, and management of adolescent health and health problems through nursing interventions. Developmental stages, lifestyle variations, cultural diversity, and environmental stressors, are included.
NGR	6205L	Primary Care Practicum: Adolescents and Women	2-3	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199.	Focus on application of the knowledge gained in the classroom in Primary Care: Adolescents and Women to this patient/client population. Health screening and management of commonly presenting health problems will structure the clinical experiences of this course.
NGR	6207	Primary Care: Adults	3	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199.	Focus on the adult patient/client from mid-life to old age related to health promotion, maintenance and prevention of diseases. Including assessment and management of episodic and chronic illness for these individuals in primary care settings including culturally diverse and vulnerable populations.
NGR	6207L	Primary Care Practicum: Adults	2-3	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199. CR: NGR 6207.	Focus on application of the knowledge gained in the classroom in Primary Care: Adults to the patient/client population between mid-life and older adult. Health screening and management of commonly presenting health problems will structure the clinical experience of this course.
NGR	6212L	Advanced Practicum in Adult Health	1-9	NU	NUR	PR: NGR 6204, or NGR 6206; CI.	Clinical experiences in advanced adult health nursing practice focusing on application of theoretical and conceptual knowledge relative to adults, 13 years of age and older. Minimum 6 hours required (1:6 ratio).
NGR	6232	Selected Concepts in the Acutely Ill Adult	3	NU	NUR	PR: NGR 6140.	This course analyzes the multiple needs of the critically ill adult. Focuses on age specific critically ill population. Examines the response to the experience of critical illness.
NGR	6243	Clinical Management of the Acutley Ill Adult	3	NU	NUR	PR: NGR 6001, NGR 6143, CI.	Focuses on advanced therapeutics and clinical management of selected acute health problems of adults. Diagnostic reasoning and intervention strategies are emphasized.
NGR	6253L	Gerontology Nursing Practicum I	3-4	NU	NUR		
NGR	6255	Primary Care of Older Adults	3	NU	NUR	PR: NGR 6001, NGR 6140, CI.	Emphasis on functional ability of the older adult, normal biological aging, changes, developmental tasks, psychosocial, cultural and

							spiritual dimensions. Focuses on health promotion, disease prevention and management of acute and chronic illnesses of culturally diverse older adults.
NGR	6258	Advanced Primary Care of Older Adults	3	NU	NUR	PR: NGR 6001, NGR 6140, CI.	Provides in-depth knowledge of: demographic, comparative, and differential aging; geriatric anatomy and physiology; the biological influence on aging psychology; the control of aging sociology; geriatric pharmacology; management of geriatric syndromes; and management of multiple diagnoses.
NGR	6259	Gerontological Nursing Practicum	1-9	NU	NUR	PR: NGR 6255, or NGR 6258.	Students will apply gerontological theories and assessment techniques in the advanced care of the elderly (1:4 ratio).
NGR	6260	Geriatric Pathophysiology for the Advanced Practice Nurse	1	NU	NUR		Central concepts of chronic illness and functional ability among the elderly and the implications for advanced nurse practitioners.
NGR	6271	Adult Health Management	3	NU	NUR	PR: NGR 6205, NGR 6205L, NGR 6207, NGR 6207L	Focus on high risk, vulnerable adult patients/clients across the life span with complex, multi-system health problems. The course covers the assessment, management and continuity of care for individuals with these complex acute and chronic health problems.
NGR	6302L	Clinical Practicum: Advanced Child Health Nursing	1-9	NU	NUR	PR: NGR 6001.	Focuses on development of clinical competencies necessary for advanced practice nurse to function as a child health nurse practitioner.
NGR	6305	Primary Care: Children	3	NU	NUR	PR: NGR 6001, NGR 6140.	Focus on the primary health care of children from birth to pre-adolescent. Health maintenance and the management of common acute illnesses are included.
NGR	6305L	Primary Care Practicum: Children	3	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199. CR: NGR 6305.	Focus on application of knowledge gained in the classroom in Primary Care: Children to the patient/client population between birth and pre-adolescent years. Screening, health maintenance, and management of health problems will make-up the clinical experiences of this course.
NGR	6371	Child Health Management	3	NU	NUR	PR: NGR 6305, 6305L, 6205, 6205L	Focus on primary care of children and adolescents with selected chronic, high risk, and multi-system health conditions. Assessment and management of commonly presenting chronic conditions in children as well as issues of continuity of care, family coping, child development, community resources, ethics and public policy will be examined.
NGR	6402	Complications in Ambulatory Women's Health	2	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199 and NGR 6205.	This course describes midwifery and advanced nursing assessment and management in complications to the processes of menstruation, conception, pregnancy, lactation, and menopause.
NGR	6403	Normal	2	NU	NUR	PR: NGR 6001, NGR	This course describes midwifery

		Intrapartum/Newborn Care				6140, NGR 6199 and NGR 6205.	and advanced nursing assessment and support of the physiological processes of labor, birth, and immediate postpartum recovery. Assessment and support of the newborn and primary care of the neonate are detailed.
NGR	6450	Midwifery Practicum I	3	NU	NUR	PR: NGR 6001, NGR 6140, and NGR 6199. CR: NGR 6205 and NGR 6403.	This course introduces midwifery practice in ambulatory settings, hospitals, and birth centers. Students may be assigned to one or more clinical agencies and preceptors for learning.
NGR	6452	Midwifery and Women's Health Seminar I	1	NU	NUR	PR: NGR 6001, NGR 6140, and NGR 6199. CR: NGR 6205 and NGR 6403.	This course introduces the history of midwifery practice, the legal basis for American midwifery practice, and national and international health trends and policy.
NGR	6453	Midwifery Women's Health Seminar II	1	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6188, NGR 6205 and NGR 6403. CR: NGR 6402 and NGR 6455.	This course introduces diagnostic coding and billing for midwives and women's health practice. Case studies related to the concepts in Complications in Ambulatory Women's Health and Intrapartum Complications will be examined.
NGR	6453L	Practicum: Midwifery and Women's Health II	3	NU	NUR	PR: NGR 6001, NGR 6121, NGR 6140, NGR 6199, NGR 6205, NGR 6403, NGR 6452 and NGR 6450. CR: NGR 6402 and NGR 6455 must be taken either the semester prior to NGR 6453L or concurrently with NGR 6453L. NGR 6453 Midwifery and Women's Health Seminar II must b	This course provides clinical application of the knowledge gained in Complications in Ambulatory Women's Health and Intrapartum Complications.
NGR	6454	Midwifery and Women's Health Seminar III	1	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199, NGR 6205, NGR 6402, NGR 6403 and NGR 6455.	This course introduces professional midwifery and advanced practice nursing issues such as certification, practice management, and malpractice liability. Intrapartum Complications will be examined.
NGR	6454L	Midwifery Practicum III	3	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199, NGR 6205, NGR 6403, NGR 6452, NGR 6450, NGR 6453 and NGR 6453L.	This course refines midwifery practice in ambulatory settings, hospitals, and birth centers for advanced students. Students may be assigned to one or more clinical agencies and preceptors for learning.
NGR	6455	Intrapartum Complications	1	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199, NGR 6205 and NGR 6403.	This course describes midwifery and advanced nursing assessment and management in complications to the processes of labor, birth, and immediate postpartum recovery. The effects of co-morbid conditions are detailed.
NGR	6483	Primary Care of Women	2	NU	NUR	PR: NGR 6001, NGR 6080, NGR 6140, NGR 6199.	The course provides content in assessment, analysis, and management of women's health and health problems through nursing interventions. Lifestyle variations, cultural diversity, environmental stressors, and

							complimentary therapies are included.
NGR	6500	Theoretical Foundations for Advanced Psychiatric Nursing	3	NU	NUR	PR: NGR 6121.	Theoretical basis for advanced practice in psychiatric nursing. Focus on selected psychodynamic, neuropsychological, development, and systems models of behavior and their impact for nursing practice.
NGR	6500L	Psychiatric APN Practicum: Psychiatric Care Outpatient	1-6	NU	NUR	CR: NGR 6500.	Clinical experience in advanced psychiatric mental health nursing that focuses on comprehensive mental health assessment, crisis intervention and brief psychotherapy.
NGR	6501	Psychopathology for Advanced Psychiatric Nursing	3	NU	NUR		In-depth study of psychosocial, factors contributing to psychosocial dysfunction, and diagnostic reasoning basis to advanced practice psychiatric health nursing, emphasis on etiology and differential diagnoses.
NGR	6501L	Psychiatric APN Practicum: Psychiatric Care in the Inpatient Setting	1-4	NU	NUR	PR: NGR 6500, CI.	Clinical experience in in-patient settings with selected acute and chronic populations. Emphasis on the role of the psychiatric APN working with individuals, groups and families conducting comprehensive mental health in the inpatient setting.
NGR	6502	Treatment Modalities for Advanced Psychiatric Nursing	3	NU	NUR		Examination of treatment modalities for advanced practice psychiatric nursing. Focus on theoretical and conceptual foundation for specialty practice with individuals, families, and groups.
NGR	6503L	Practicum III: Advanced Psychiatric Mental Health Nursing	3	NU	NUR	PR: NGR 6230.	Clinical experience in advanced psychiatric mental health nursing that focuses on individual, group, family, and community interventions with culturally diverse populations.
NGR	6504	Practicum III: Advanced Psychiatric Mental Health Nursing	3	NU	NUR	PR: NGR 6230.	Field experience in a variety of community settings with culturally diverse psychiatric/mental health populations. Emphasis on implementing prevention and intervention strategies with individuals, group, families and communities (1:6 ratio).
NGR	6511	Geropsychiatric Nursing	3	NU	NUR	CI	Focuses on theoretical implications and foundations for providing geropsychiatric nursing care for the elderly who have been diagnosed or have potential emotional/mental problems with emphasis of various therapies in a variety of clinical settings. (CI)
NGR	6530	Counseling for the Terminally Ill	3	NU	NUR		Provides specialized psychological and psychosocial content with a focus on the principles and techniques for conducting psychosocial counseling with terminally ill patients.
NGR	6538	Psychopharmacology	2	NU	NUR	PR: NGR 6140, CI.	Theoretical basis for psychopharmacological interventions with clients including

							pharmacokinetics and clinical management.
NGR	6617	Practicum in Family Centered Nursing	1-6	NU	NUR	PR: NGR 6140; NGR 6634; CI.	Focuses on the development of clinical competencies necessary for the advanced practice nurse of function as a family nurse practitioner (1:6 ratio). (CI)
NGR	6620	Strategies for Community Health Nursing	3	NU	NUR		Examines the variables that influence and guide community health nursing practice, and the application of relevant nursing concepts and theories.
NGR	6634	Primary Care of Child Bearing Families	2	NU	NUR	PR: NGR 6140, NGR 6001, CI.	This course focuses on health promotion, health maintenance, differential diagnosis and management of common acute and chronic problems of child bearing families. Emphasis is on the specialized knowledge necessary to provide primary care to this population.
NGR	6650	Occupational Health Nursing I	2	NU	NUR	CI.	Primary care of the worker relative to health promotion/risk reduction/acute injuries/chronic conditions, assessment of the workplace and needs of worker aggregates, and planning for health services relative to worker lifestyles and risk factors.
NGR	6650L	Clinical Experiences In Occupational Health Nursing I	1	NU	NUR	CI.	Clinical experiences at selected worksites to apply content from NGR 6650 Occupational Health Nursing with an emphasis on analysis of the workplace and worker aggregates, occupational health nurse(s) roles/functions.
NGR	6651	Occupational Health Nursing II	2	NU	NUR		Focuses on the analysis of clinical strategies (e.g. triage, biological monitoring) relevant to advanced occupational health programs, medical surveillance programs, and worker's compensation managed care.
NGR	6651L	Clinical Experiences in Occupational Health II	1	NU	NUR	CI.	Clinical experiences relative to the application of content in NGR 6650 Occupational Health Nursing II with a focus on workplace assessment utilizing a comprehensive instrument and evaluation of worker's compensation managed care programs.
NGR	6652	Occupational Health Nursing III	3	NU	NUR		Focuses on the prevention of occupational injuries and illnesses; direct care in the occupational setting; disability case management; and health promotion and adult education.
NGR	6653	Occupational Health Nursing IV	3	NU	NUR		Focuses on the management of psychosocial factors in the occupational setting; examples of occupational health and safety programs; environmental health; research; and professional issues related to occupational and environmental health nursing.
NGR	6700	Advanced Practice Nurse Transitions	2	NU	NUR	PR: NGR 6001, NGR 6140, NGR 6199. CR: NGR 6700L.	The summative process for students to design and develop their roles as an Advanced

							Practice Nurses (APN). It provides an opportunity for integrating knowledge with clinical skills to support a clinical specialty as well as negotiating and marketing this role in the professional community.
NGR	6700L	APN Transitions Practicum	2-3	NU	NUR	CR: NGR 6700.	Clinical concentration in the intended area of practice for the graduating Advanced Practice Nurse (APN). Focus on applying integrated knowledge to provide collaborative comprehensive care. By Permit Only.
NGR	6710	Teaching Strategies in Nursing Education	3	NU	NUR	CI.	This course focuses on classroom and clinical teaching in nursing, including computer-based learning and distance learning. Evaluation of textbooks, assignment making and construction of learning plans are included.
NGR	6712	Foundations of Nursing Education	3	NU	NUR	PR: Admission to graduate program or permission of instructor.	This course focuses on the philosophical, theoretical and evidence-based approaches for nursing education programs. Emphasis is on role of the nurse educator and curriculum development.
NGR	6718	Evaluation Strategies for Nursing Education	3	NU	NUR	PR: NGR 6710, NGR 6712 or CI.	This course provides an overview of evaluation strategies used in the class, clinical setting and in web-based instruction. Program evaluation models are explored.
NGR	6723	Leadership and Applied Management in Nursing Healthcare	3	NU	NUR	PR: CI	Leadership in management of resources to achieve quality and enhance healthcare outcomes in nursing. Focus on , evidence-based practice and patient-care outcomes within the context of an interdisciplinary team.
NGR	6726	Managing Healthcare Resources	3	NU	NUR	PR: CI.	Managing human and financial resources to achieve quality outcomes and enhance health care services. Focus on quantifying processes of care and outcomes and on the continuous improvement of quality in health care program delivery.
NGR	6730	Organization Theory and Leadership in Healthcare	3	NU	NUR	PR: CI.	Rule preparation for the healthcare manager, leader and change agent. Synthesis of concepts from organizational theory and behavior, change management, and principles of healthcare leadership as a basis for role effectiveness.
NGR	6734	Healthcare Systems Leadership Seminar	2	NU	NUR		This seminar course provides experiences to analyze theoretical issues in nursing and healthcare leadership roles. Provides an opportunity to integrate leadership and human relationship skills in health systems management.
NGR	6735	Applied Organizational Theory in Nursing and Healthcare	3	NU	NUR	PR: CI	Synthesis of concepts from organizational theory and behavior: change management and principles of healthcare leadership as a basis for effectiveness in nursing management.

NGR	6771L	CNL Clincal Seminar	1	NU	NUR		Exploration and application of the clinical concepts essential to the role of the Clinical Nurse Leader.
NGR	6773L	CNL Residency	3	NU	NUR		Residency practice in the role of the Clinical Nurse Leader.
NGR	6790	Consultation Liaison Nursing	3	NU	NUR	PR: Clinical and Theoretical courses for clinical concentration, or CI.	Emphasizes evolution of the consultation/liaison role for advanced nurse practitioners with emphasis on the consultation process in a variety of clinical settings.
NGR	6800	Nursing Research	3	NU	NUR	CI.	Research designs and methods for nursing with primary emphasis on these topics: critique of research studies, researchable problems, research designs, instruments and other data collection methods, approaches to data analyses using computer applications, and preparation of research proposals for thesis, directed research, or funded research.(CI)
NGR	6804	Foundations of Clinical Research for Health Professionals	3	NU	NUR		Research designs and methods for health professionals. Emphasis on quantitative approaches to research designs.
NGR	6821	Applied Analysis for Outcomes Research Using Large Healthcare Databases	3	NU	NUR	PR: Nursing Majors Only	Focus on knowledge discovery in clinical domains by exploring large nursing and healthcare databases for the purposes of outcomes research or quality improvement. Emphasis onm theoretical models and methods of analysis, providing experimental computer applications with large healthcare databases.
NGR	6822	Measurement for Nursing Education and Research	3	NU	NUR	CI.	Course purposes are to increase skill in measurement of nursing variables as part of the research process, to enhance ability of nurse educators to identify or develop valid and reliable measurement instruments for evaluation of students, clients and educational programs.
NGR	6824	Data Analysis for Health Sciences	3	NU	NUR		This course is designed to provide the graduate Student interested in health sciences research with practical experience using SPSS for Windows and Microsoft's Excel programs to manage, organize, analyze and present both primary and secondary data in biophysical sciences.
NGR	6825	Cluster-Analytic Techniques Health Science Research	1	NU	NUR	PR: NGR 7841.	Theoretical foundations and applications of cluster-analytic concepts: proximity, hierarchical agglomeration and division, various optimization algorithms of discrete groups of similar entities based on similarities among their features.
NGR	6872	Clinical Systems Applications and Management	3	NU	NUR	PR: NGR 5635, ISM 6127	Advanced informatics course with emphasis on application in healthcare informatics and clinical systems in nursing. Focus on design, implementation and analysis of informatics technologies in healthcare,

							nomenclatures and classification systems, health care documentation, integrated electronic patient records, and web-based technologies patient care and patient safety.
NGR	6875	Implementation of Information Systems in Healthcare	3	NU	NUR	PR: NGR 5871	This course will focus on the implementation of a information system for clinical practice, healthcare administration, nursing education, or clinical research. Emphasis on the change process that enables a successful implementation.
NGR	6905	Independent Study	1-6	NU	NUR	CI, S/U.	Specialized individualized study determined by students' needs and interests; requires an approved contract with a faculty member. (CI)
NGR	6915	Directed Research	1-3	NU	NUR	PR: NGR 6800, CI.	Builds on knowledge gained in NGR 6800 and specialty concentration by participating in a research project under the direction of selected faculty. (CI)
NGR	6930	Research Seminar in Hospice and Palliative Care	3	NU	NUR		Focus on analysis of contemporary research issues in palliative care and end of life with special emphasis on design, sampling, statistical analysis and measurement problems common to research in the area.
NGR	6931	Selected Topics	1-4	NU	NUR	CI.	Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty.
NGR	6944	Practicum in Acute Care Nursing	1-9	NU	NUR	PR: NGR 6143, NGR 6333 or NGR 6232, CI.	Clinical experiences in critical care settings focusing on the role of the advanced practice nurse (1:4 ratio).
NGR	6947	Practicum in Nursing Education	1-4	NU	NUR	PR: NGR 6822, NGR 6710, NGR 6712, CI.	Instructional experiences that utilize educational concepts and instructional strategies in a variety of educational settings in nursing. (CI)
NGR	6947L	Practicum I in Advanced Oncology Nursing Practice	3	NU	NUR	PR: NGR 6001, NGR 6096, NGR 6121, NGR 6140, NGR 6142, NGR 6199, NGR 6207, NGR 6800	This course provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer.
NGR	6948L	Practicum II in Advanced Oncology Nursing	3	NU	NUR	PR: NGR 6001, NGR 6096, NGR 6121, NGR 6140, NGR 6142, NGR 6199, NGR 6207, NGR 6800	This course provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer.
NGR	6949	Oncology Nursing Practicum	1-9	NU	NUR	CI.	Requires synthesis of all knowledge and skills acquired earlier in the program. Emphasis is on the role of the oncology nurse specialist, including those of expert clinician, consultant, teacher, researcher and administrator.
NGR	6949L	Practicum III in Advanced Oncology Nursing Practice	1-9	NU	NUR	PR: NGR 6001, NGR 6096, NGR 6121, NGR 6140, NGR	This course provides clinical experiences in advanced oncology nursing practice with a focus on

						6142, NGR 6199, NGR 6207, NGR 6800	the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer.
NGR	6950	Capstone Course	3	NU	NUR	PR: Completion of 50% of academic program, and NGR 6121 and NGR 6800.	This course focuses on the development of a scholarly manuscript of publishable quality to a selected publisher's standards on a topic selected by the student.
NGR	6971	Thesis	2-19	NU	NUR	PR: NGR 6800, CI.	
NGR	7003	Advanced Health Assessment II	3	NU	NUR	PR: A grade of B or higher must have been earned in master's level course in pathophysiology, pharmacology, and advanced health assessment.	Mastery of the comprehensive physical examination and health history for individuals across the life span. Focus on systematic review, analysis, and documentation within the context of the student's clinical expertise.
NGR	7061	Radiology for the Advanced Practice Nurse	1	NU	NUR		Basics of X-ray, MRI, CT Scan Interpretation and Nuclear Medicine Studies for the Advanced Practice Nurse.
NGR	7062	ECG Interpretation for the Advanced Practice Nurse	1	NU	NUR		Advanced ECG Interpretation, including 12 lead ECG for the Advanced Practice Nurse.
NGR	7103	Evidence-Based Practice	3	NU	NUR		Course focuses on the evaluation and selection of the best evidence in making decisions about personalized patient care. Consideration of patient values and preferences and the expertise of the practitioner are incorporated into the patient care.
NGR	7124	Advances in Nursing Science	3	NU	NUR		Focus on history and philosophy of science: history and development of nursing's scientific knowledge base and theoretical progress. Emphasis methods of theory building and theory testing through research. Explore progress in middle range theories and areas of high priority for additional research for the discipline.
NGR	7141	Pathophysiology for Advanced Practice II	3	NU	NUR	PR: A grade of B or higher must have been earned in master's level course in pathophysiology, pharmacology, and advanced health assessment.	Core elements of embryologic, genetic, and environmental factors in disease will be presented as well as aspects of immune phenomenon as related to genetic information and research impetus.
NGR	7176	Pharmacotherapeutics for Advanced Nursing Practice	3	NU	NUR	PR: A grade of B or higher must have been earned in master's level course in pathophysiology, pharmacology, and health assessment.	Progressive pharmacotherapeutics for advanced nursing practice. Focus diagnostic reasoning of scientific evidence relating to prescribing and monitoring drugs.
NGR	7180	Breast Workshop for the Advanced Practice Nurse	1	NU	NUR		Breast assessment techniques and interpretation for Advanced Practice Nurse.
NGR	7181	Casting and Splinting for the Advanced Practice Nurse	1	NU	NUR		Basics of casting and splinting for the Advanced Practice Nurse.
NGR	7182	Minor Surgical Procedures for the Advanced Practice	1	NU	NUR		Basics of minor surgical procedures for the Advanced Practice Nurse.

		Nurse					
NGR	7183	Neurological Techniques for the Advanced Practice Nurse	1	NU	NUR		Basic neurological techniques for the Advanced Practice Nurse.
NGR	7184	Invasive Medical Procedures for the Advanced Practice Nurse	1	NU	NUR		Basics of invasive medical procedures for the Advanced Practice Nurse.
NGR	7705	Academic Citizenship in Nursing	1	NU	NUR	PR: Admission to doctoral program or consent of instructor.	Examination of the academic role in nursing. Emphasis on analysis and synthesis of the domains including teaching, research, service and practice Historical and contemporary issues and their relevance to academe are explored.
NGR	7774	Leadership and Systems Analysis	3	NU	NUR		This course focuses on understanding theories of change and their application in clinical and educational setting. A leadership skills and organizational theory will be examined.
NGR	7792	Basics for Surgical Assistants	1	NU	NUR		Overview and basics for the Advanced Practice Nurse as the surgical assistant.
NGR	7815	Qualitative Research Methods in Nursing	3	NU	NUR	PR: NGR 6800.	An overview of qualitative research methods in nursing, identification of problems appropriate for qualitative research methods, and application of appropriate qualitative research methods to a researchable problem.
NGR	7816	Research Designs and Methods in Nursing	3	NU	NUR		Focus on designs used in nursing research to test or develop theoretical models, or concepts, including clinical or outcome variables, or hypotheses. Emphasis on quantitative designs.
NGR	7823	Psychometrics and Measurement for Nursing Research	3	NU	NUR	PR: NGR 7841.	Explores issues in developing, testing, and applying measurement theory in research. Analysis of psychometric properties of instruments and methods appropriate to theoretical and conceptual demands of science.
NGR	7841	Statistical Methods in Nursing Research I	3	NU	NUR	PR: NGR 6800 or equivalent and statistics.	Standard parametric and nonparametric statistical methods in nursing research; role of assumptions and theory in selecting the appropriate statistic for testing hypotheses/research questions. Emphasis on analysis of variance and simple linear regression. Statistical software applications are integrated into the course.
NGR	7842	Statistical Methods in Nursing Research II	3	NU	NUR	PR: NGR 7841.	Focus on advanced multivariate methods in nursing research: regression (linear, multiple, logistic) and multiple analysis of variance (MANOVA) and covariance software applications are integrated into the course.
NGR	7843	Statistical Methods in Nursing Research III	3	NU	NUR	PR: NGR 7842.	Focus on advanced multivariate statistical methods in nursing research; emphasizing multiple regression and correlational

							analysis.
NGR	7881	Ethics in Research and Practice	3	NU	NUR		Explores issues and research in esthetics (carative factors-art of healing) and ethics in advanced practice. Focuses on use of alternative approaches to healing and application of ethical decision making models to complex health care issues.
NGR	7910	Concepts in Nursing Practice	3	NU	NUR		Emphasis on analysis of phenomena (concepts) that impact on nursing practice. Phenomena are selected and analyzed from theoretical and research perspectives.
NGR	7912	Health Policy Issues in Nursing and Health Care	3	NU	NUR	PR: NGR 7841 and NGR 7842 or CI.	Use of data bases to develop approaches for decision making, policy formulation and outcome evaluation. Focus on policy analysis, agenda setting, and factors affecting nursing and health care policy.
NGR	7932	Special Topics	1-4	NU	NUR		Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty.
NGR	7940	Advanced Clinical Research Pro Seminar	1	NU	NUR		Focus is on increasing knowledge in grant funding; building research teams; preparing publications and research presentations. Each semester the student will also participate in a research practicum experience with a research mentor.
NGR	7941	Nursing Research Pro Seminar	1-6	NU	NUR	PR: Nursing Knowledge Systems and Issues in Knowledge Dissemination.	The Pro Seminar provides experiential opportunities for students to test innovative methods and technologies in a variety of educational or clinical settings. Seminars designed to critique current research in the area.
NGR	7980	Dissertation Research	2-6	NU	NUR	PR: Admission to candidacy.	Directed research and writing of dissertation topic appropriate to the discipline.
OCB	6050	Biological Oceanography	3	MS	MSC	PR: GS or CI.	Study of life in the oceans, its rates and processes, and its interaction with the physical and chemical environment. Lec.
OCB	6567	Phytoplankton Ecology	3	MS	MSC	PR: B.S. in Biology, OCB 6050, or CI.	An introduction to the physiology and ecology of marine phytoplankton. Emphasis will be on those variables and interactions that regulate photosynthesis, production, nutrient kinetics and regeneration, growth, spatial distribution, losses, and succession.
OCB	6646	Marine Zoogeography	3	MS	MSC	PR: B.S. in Biology, OCB 6050, or CI.	The geographical distribution of animals in the marine environments of the world including the major habitats of the benthic and pelagic realms. Studies of the relationships between distribution and evolutionary patterns.
OCB	6666	Ecological Physiology	3	MS	MSC	PR: B.S. in Biology, 1 year general and Organic Chemistry,	The study of those physiological mechanisms that enable organisms to live in their

						OCB 6050, or CI.	environment, and deal with changes in the environment. Coursework is focused on aquatic ecosystems. Topics include osmotic and ionic regulation, nitrogen excretion, feeding and digestion, respiration, temperature, and energetics. Lab separate.
OCB	6671L	Methods in Biological Oceanography	1	MS	MSC	PR: CI.	To acquaint students with field and laboratory equipment and techniques currently used in Biological Oceanography. Emphasis will be on field problems, especially those requiring research at sea.
OCB	6931C	Special Topics in Ichthyology	1-3	MS	MSC	PR: GS or CC. S/U only.	Presentation and discussion of ichthyological topics from the primary literature. The objectives of this course are: 1) to review and discuss the primary literature on ichthyological topics, both current and historical; 2) to provide a forum in which students can develop discussion skills; 3) to identify, through examination of the literature, areas of needed research; 4) to provide means by which graduate students can receive formal course instruction in a non-lecture format.
OCC	6050	Chemical Oceanography	3	MS	MSC	PR: CHM 2046 and GS or CI.	The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, organic matter, and stable and radioactive isotopes. Lec
OCC	6057	Marine Pollution	3	MS	MSC	PR: OCC 6050 or CI.	Marine pollutant sources, reservoirs, transport processes, and dynamics. Topics include heavy metals, chlorinated hydrocarbons, radioactivity, petroleum, pathogens, and thermal pollution including functional and physiological responses of marine organisms.
OCC	6057L	Methods in Chemical Oceanography	1	MS	MSC	PR: OCC 6050 or CI.	An intensive study of the use and limitations of field and laboratory equipment that is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater.
OCC	6111C	Applications of Gas Chromatography and Mass Spectrometry in Marine Science	3	MS	MSC	PR: OCC 6050 and CI.	Analytical techniques of high resolution gas chromatography and combined gas chromatography-mass spectrometry are applied to problems in Marine Science. Theoretical aspects of the techniques are covered in lectures, while detailed experimental procedures are taught and practiced in the laboratory.
OCC	6216	Marine Organic Chemistry	3	MS	MSC	PR: B.S. in Biology or Chemistry, Biochemistry, OCC 6050 or CI.	Distribution and biogeochemical cycling of organic matter in the oceans. Topics include carbohydrates, proteins, lipids, humics, pheromones, interaction

							with trace metals, isotopic fractionation, microbial alterations, and biochemical tracers.
OCC	6418	Petroleum Geochemistry	3	MS	MSC	PR: OCC 6216 or CI.	An investigation of the geochemical aspects of petroleum generation, migration, accumulation, and maturation. Additional topics include the composition of petroleum, the use of molecular biomarkers to investigate petrochemical and geochemical processes, and petroleum prospecting.
OCE	6908	Independent Study	1-10	MS	MSC	S/U.	Independent study in which students must have a contract with an instructor.
OCE	6934	Selected Topics in Oceanography	1-3	MS	MSC	PR: CI.	Special topics in Biological, Chemical, Geological, and Physical Oceanography.
OCE	6939	Graduate Seminar in Oceanography	1	MS	MSC	PR: GS. S/U.	
OCE	6971	Thesis: Master's	2-19	MS	MSC	PR: CC, GR, ML. S/U.	
OCE	6972	Directed Research	1-19	MS	MSC	PR: GR. ML, CI. S/U.	
OCE	7910	Directed Research	1-19	MS	MSC	PR: GR. Ph.D. level, CI. S/U.	
OCE	7980	Dissertation: Doctoral	2-19	MS	MSC	PR: Admission to Candidacy, CC. S/U	
OCG	6051	Geological Oceanography	3	MS	MSC	PR: GS or CI.	Marine geology including plate tectonics; coastal, shelf and pelagic sedimentation; geochemical cycling; and sedimentary history of the ocean basins. Lec
OCG	6075	Methods in Geological Oceanography	1	MS	MSC	PR: OCG 6051 or CI.	Description and application of the modern techniques used to investigate Marine Geology and Geophysics.
OCG	6080	Plate Tectonics	3	MS	MSC		An overview of the Plate Tectonic theory, including such topics as: geometry of Plate Tectonics, tectonics on a sphere, past plate motions, seismology, oceanic gravity, geochronology, heat flow, oceanic lithosphere, ridges, transforms, trenches, oceanic islands, and continental lithosphere.
OCG	6086	Geology of Continental Margins	3	MS	MSC	PR: B.S. in Geology, OCG 6051, or CI.	Analysis of tectonic, structural and stratigraphic development and general geologic history of the major types of continental margins. Includes interpretation of seismic data.
OCG	6356C	Stratigraphic Interpretation of Seismic Data	3	MS	MSC	PR: B.S. in Geology, OCG 6051, or CI.	Study of seismic reflection data for the purpose of determining structural and sedimentological development, facies distribution, and general geological history of stratigraphic packages. Course includes fundamentals of seismic reflection and depositional sequence/seismic facies analyses.
OCG	6453	Geochemistry Marine	3	MS	MSC	PR: BA in Chemistry	General survey course of the

		Sediments				or Geology or CI.	mineralogy, chemical composition, physical properties and origin of marine sediments. Topics include the transport, deposition, and burial diagenesis of organic matter and carbonate, aluminosilicate and silica minerals. Theoretical and practical aspects of x-ray diffraction.
OCG	6455	Marine Isotope Geochemistry	3	MS	MSC	PR: Chemical Oceanography or CI.	Study of stable and radioactive isotope variations in the marine environment and the use of these variations as tracers and in determining ages, rates and paleoclimatic conditions.
OCG	6551C	Scanning Electron Microscopy: Theory and Technique	4	MS	MSC	PR: One year Physics and Chemistry or CC. Full time graduate students in the department of Marine Science are not required to obtain an individual permit. All other graduate and undergraduate students should obtain a permit.	Theory and practical application of the scanning electron microscope and the energy dispersive X-ray analyzer. Emphasis is on independent operation of the instruments, preparation techniques for specimens, and interpretation of results.
OCG	6656C	Marine Micropaleontology	3	MS	MSC	PR: B.S. in Geology or Biology, OCG 6051, or CI.	Introduction to the microscopic marine fauna and flora found in the fossil sedimentary record. Emphasis is placed on the ecology, paleoecology, paleontology, and biostratigraphic record of calcareous and siliceous microfossils
OCG	6664	Paleoceanography	3	MS	MSC	PR: OCB 6050, OCC 6050, OCG 6051, and OCP 6050, or CI.	The study of the development of the ocean system through geologic history, including tectonic framework, sea level history, paleoclimatology, paleocirculation within the ocean basins, and the evolution of marine biota.
OCG	6666	Carbonate Depositional Systems	3	MS	MSC	PR: BA in Geology or CI.	In-depth presentation of production, transport, and accumulation of carbonate sediments on platforms and shelves. Characteristics of carbonate sediment type, primary environment controls, and relationships to surrounding facies will be presented. Available to non-majors.
OCG	6668	Evolution and Ecology of Reefs	3	MS	MSC	PR: OCB 6050 and OCG 6051 or CI.	Advanced course in ecology and evolution of reef communities. Topics include environmental controls on reef development, basic components of modern reef communities, and how those components have changed through geologic time.
OCP	6050	Physical Oceanography	3	MS	MSC	PR: Diff/int. calculus, General Physics, and GS or CI.	The world ocean including its morphology, physical properties, currents, waves, tides, heat and water budgets, and related topics. Lec.
ORI	5930	Topics in Performance Genres	3	AS	SPE		Variable topics course.
ORI	6018	Performance Art	3	AS	SPE	PR: Graduate Standing.	Explores historical, theoretical, and critical perspectives on

							performance art in the US.
ORI	6020	Performing Social Resistance	3	AS	SPE	PR: Graduate Standing.	Explores performance as a site of and means for creating social resistance and change.
ORI	6107	Texts in Performance	3	AS	SPE	PR: Graduate Standing.	Explores contemporary literary texts through dramatic analysis, live performance, adaptation and staging strategies.
ORI	6250	Performance and Technology	3	AS	SPE	PR: Graduate Standing.	Explores the relationship between live and mediated performance, the use of media technologies in performance, and the place of live performance in a Western mediated society.
ORI	6435	Performance as Cultural Study	3	AS	SPE	PR: GS.	Impact of performance and performance forms as cultural communication. The course examines literary, festive, religious, political and social performance in dialogue with culture.
ORI	6456	Performance Theory	3	AS	SPE	PR: Graduate Standing.	A survey of modern and contemporary approaches to performance as constitutive of identity, verbal art, communication, and culture.
ORI	6506	Performance Criticism	3	AS	SPE	PR: Graduate Standing.	Focuses on the development and honing of critical skills employed in response to performance. These skills can be applied to a multitude of acts and texts.
ORI	6930	Communication Aesthetics	3	AS	SPE		This course examines the historical evolution of the aesthetic dimension of communication as performance in terms of major concepts and theorists from Plato to the present.
ORI	7930	Seminar in Performance Studies	3	AS	SPE	PR: GS.	Variable topics course.
PAD	5035	Issues in Public Administration and Public Policy	3	AS	PAD	Sr. & GS only.	Selected issues and topics in Public Administration and Public Policy.
PAD	5044	Environment of Public Administration	3	AS	PAD		Examination of the legal, political, and ethical environment in which public managers work.
PAD	5333	Concepts and Issues in Public Planning	3	AS	PAD	PR: URP 4050 or URP 6056, GS or Sr.	Analysis of basic concepts, issues, and strategies of planning, policy determination, collection of information, and decision-making.
PAD	5605	Administrative Law and Regulation	3	AS	PAD		An examination of the constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. An examination of the Constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management and relationship with other branches of government.
PAD	5700	Research Methods in Public Administration	3	AS	PAD	PR: MPA, GCPM, and GCNM majors only.	Research design; skills in public agencies. Must be prepared to

							demonstrate proficiency in EXCEL, Access, and other relevant software programs.
PAD	5807	Urban and Local Government Administration	3	AS	PAD	GS or Sr.	Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process.
PAD	5836	Comparative Public Administration	3	AS	PAD	GS or Sr.	How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.
PAD	6041	Ethics and Public Service	3	AS	PAD		The purpose of this course is to provide students with an understanding of the ethical dimensions of public service, with particular attention focused on the role, duties and responsibilities of the public administrator. Additionally, the course seeks to help students develop awareness, skill, and value framework to act ethically in their public service and management roles.
PAD	6056	Practice of Public Management	3	AS	PAD	PR: Completion of all MPA core courses and five electives. Must be taken in last semester of coursework.	An integrative course applying the skills, knowledge, and values taught in the core curriculum and applied to public issues or problems.
PAD	6060	Public Administration Theory	3	AS	PAD	GS.	Examination of major theoretical and practical developments in public administration with focus on organization theory and current research trends in the field.
PAD	6105	Public Organizations and Change	3	AS	PAD		In-depth coverage of organizational theory and focus with special attention to issues and problems of organizational change and reform in the public sector.
PAD	6134	Project Management	3	AS	PAD		Course is designed to introduce students to the concepts, theories, principles, and practices in project management, as well as to the use of project management software.
PAD	6146	Nonprofit Management and Leadership	3	AS	PAD		Role and importance of third-sector organizations in American society; unique problems of nonprofit administration, role of leadership in nonprofit organizations.
PAD	6207	Public Financial Administration	3	AS	PAD	GS.	Examination of the fiscal organization of federal, state, and local governments. Current problems in budgeting, revenue, and indebtedness are considered.
PAD	6208	Financial Oversight for Nonprofit Organizations	3	AS	PAD		Introduce the non-financial manger to financial information used to make decisions for nonprofit organizations. Students will learn how to use the principles of financial management to make operating and capital budgeting decisions and to analyze long-term financial options.
PAD	6222	Issues in Florida--	3	AS	PAD		Selected issues in public financial

		Budgeting and Finance					management and budgeting related to state agencies or local governments in Florida.
PAD	6227	Public Budgeting	3	AS	PAD		Development, authorization, execution, and assessment of government budgets. Topics include current trends and issues in budget theory and practice, as well as reform efforts.
PAD	6275	Political Economy for Public Managers	3	AS	PAD	PR: Graduate status or CI, PAD 5700 and PAD 6703 are recommended.	Introduces students to the fundamental concepts, theories, principles and tools used in public sector managerial economics. Students will be using economic concepts and applying economic tools and techniques to address common issues faced by public managers.
PAD	6307	Policy Analysis, Implementation, and Program Evaluation	3	AS	PAD		An introduction to analyzing public problems and program development. Emphasis is placed on the methodological tools for analyzing public problems, and criteria to assess the value of programs in addressing public problems.
PAD	6335	Strategic Planning for Public and Nonprofit Organizations	3	AS	PAD		Emphasizes methods of strategic planning as tools to lead, strengthen, and develop public and nonprofit organizations.
PAD	6336	Community Development Programs and Strategies	3	AS	PAD		Discusses community development principles and practices in historical and contemporary perspectives, federal, state and local initiatives, physical, social, and economic approaches to community development.
PAD	6338	Urban Land Use and Policy Administration	3	AS	PAD		Focuses on the political, economic, and legal environment of urban land development. Examines public policies affecting the spatial distribution of urban land activities, overt and covert rationales of such policies; zoning; subdivision regulations; building codes, and other urban land use control measures.
PAD	6339	Housing and Public Policy	3	AS	PAD		Explores housing policy in the broader context of public policy. Examination of housing market theories and the relationships between housing and city and regional planning.
PAD	6355	Urban Growth Management	3	AS	PAD		Examines the political economy of controlling the growth and development of human settlements, regulatory and non-regulatory techniques of growth management, and the evolution of growth management practices in the U.S.
PAD	6417	Human Resources Management	3	AS	PAD	GS or Sr.	A study of the major functions in public personnel, including recruiting, selection, testing, training, and development, and employee and human relations in the public service.
PAD	6427	Public Sector Labor	3	AS	PAD		Introduction to the historical, legal,

		Relations					political and procedural aspects of collective bargaining and labor relations in the public sector organizations. Addresses methods for resolving conflicts and grievances.
PAD	6703	Quantitative Aids for Public Managers	3	AS	PAD	PR: PAD 5700; Proficiency in EXCEL, Access and other relevant software programs.	Techniques, models, to analyze managerial/policy problems. Descriptive, inferential, associational statistics; evaluate/make recommendations/alternative policy/decisions.
PAD	6710	Public Information Management	3	AS	PAD		Intro to policy issues related to managing public info. by non-technical public & nonprofit managers. Non-tech. manager's role with strategic tech. planning, process re-engineering, appl. dev., data admin., procurement, security, public access, Internet.
PAD	6907	Independent Study	1-3	AS	PAD	PR: CI. S/U.	A flexible format for conceptual or theoretical studies in public administration.
PAD	6909	Problem Report	3	AS	PAD	Majors only.	Analysis of a significant administrative or policy problem facing a public agency or manager.
PAD	6915	Directed Research	1-3	AS	PAD	PR: CI. S/U.	A flexible format for structured field research in Public Administration.
PAD	6934	Selected Topics in Public Administration	1-3	AS	PAD		A flexible format to offer specialized courses not available within the regular curriculum.
PAD	6946	Internship in Public Administration	2-6	AS	PAD	PR: CI. Majors only. S/U	Structured learning and work experience in a public agency or non-profit organization.
PCB	5256	Developmental Biology	3	AS	BIO	PR: PCB 3023, PCB 3063 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: CHM 2211.	Topics in modern developmental biology to be covered in lecture and through readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals. Lecture only.
PCB	5307	Limnology	3	AS	BIO	PR: PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: CHM 2211.	An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.
PCB	5307L	Limnology Laboratory	1	AS	BIO	PR: CI. CP: PCB 5307.	Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.
PCB	5415	Behavioral Ecology	3	AS	BIO	PR: PCB 3043 and PCB 3063 or PCB 4674 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211.	An emphasis on the evolutionary mechanisms that influence an organisms behavioral responses to environmental events. The theoretical framework is presented and analyzed. Lecture only.
PCB	5525	Molecular Genetics	3	AS	BIO	PR: PCB 3063, CI.	Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics.
PCB	6107	Advanced Cell Biology	4	AS	BIO	PR: CI.	Detailed examination of the structure, function and molecular biology of eukaryotic cells.
PCB	6176C	Biological Electron	5	AS	BIO	PR: PCB 3023 and	Discussion of theory and

		Microscopy				CI.	techniques in electron microscopy. Emphasis on preparation of biological microscope. Lec/Lab.
PCB	6236	Advanced Immunology	4	AS	BIO	PR: CI.	Discussion of the basic immune reaction, nature of antigenicity; basic immunological techniques and their use in biological research and the medical sciences. Lec/Lab.
PCB	6275	Cell Signaling	3	AS	BIO		A detailed examination of the cellular, biochemical, and molecular mechanism involved in signal transduction in various eukaryotic organism with emphasis on reviewing recent experimental evidence.
PCB	6365C	Physiological Ecology	4	AS	BIO	PR: CI.	Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism.
PCB	6405	Chemical Ecology	3	AS	BIO	PR: PCB 3043 and CHM 2211.	A broad introduction to the biochemistry of plant and animal interactions. Emphasis on the roles of secondary metabolites such as alkaloids, flavonoids, and terpenes in the complex animal/animal, animal/plant, plant/plant, and plant/microorganism interactions occurring in natural, terrestrial, and aquatic environments.
PCB	6426C	Population Biology	3	AS	BIO	PR: GS, CI.	Introduction to population dynamics with emphasis on the ecological components of growth, competition, and perdition.
PCB	6447	Community Ecology	3	AS	BIO	PR: CI.	In-depth examination of community ecology with emphasis on diversity, stability, trophic structure and the mechanisms which affect how communities are structured.
PCB	6455	Statistical Ecology	3	AS	BIO	PR: CI.	Introduction to exploratory data analysis in ecology. Techniques for dealing with encountered data are emphasized.
PCB	6456C	Biometry	4	AS	BIO	PR: MAC 2241 and MAC 2242, GS.	An introduction to statistical procedures for research in biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec./Dis.
PCB	6458	Biometry II	3	AS	BIO	PR: PCB 6456C.	Fundamental concepts in the design of experiments for biological research. Factorial experiments, multiple regression analyses, analyses of covariance and SAS computer programs are emphasized. Lec/Lab.
PCB	6920	Advances in Cell and Molecular Biology	1	AS	BIO	PR: PCB 6107 or CI.	A journal club in which graduate students present and discuss research publications from the preceding twelve months in the fields of molecular and cellular biology.
PCB	6933	Seminar In Ecology	1-3	AS	BIO	PR: CI.	A detailed examination of topics in ecology pertaining to individual organisms, populations, communities and/or ecosystems.
PET	6205	Psycho-Sociological	3	ED	EDP	DPR.	Psychological and sociological

		Aspects of Human Movement					implications of movement to historical and contemporary society. Emphasis on concept, role of movement in society, and values and attitudes.
PET	6235	Motor Learning	3	ED	EDP	PR: Department Approval/Permission of Instructor.	This course deals with motor learning research as it relates to exercise science. Emphasis will be placed upon normal developmental patterns and behaviors and motor learning principles throughout the life span.
PET	6312	Applied Biomechanics	3	ED	EDP	PR: Department Approval/Permission of Instructor.	The course involves the integration of advanced kinesiological foundations to exercise science. Topics include: physical growth and neuro-muscular control, laws of physics in human movement, and effects of exercise on the muscular and skeletal systems.
PET	6356	Advanced Exercise Physiology	3	ED	EDP	PR: PET 3351 (or equivalent) and Department Approval/Permission of Instructor.	The course will address advanced principles of basic and applied exercise physiology. Cardiovascular and respiratory physiology and physiological responses of these systems to acute and chronic exercise will be discussed, as well as thermal stress.
PET	6358	Developmental Exercise Physiology	3	ED	EDP	PR: PET 3351 (or equivalent) and Department Approval/Permission of Instructor.	The course covers normal growth and physiological development in children and adolescents with an emphasis on the changes in physiological adaptations with exercise as a result of maturation.
PET	6396C	Specialized Study in Bio-Kinetics of Human Movement	1-4	ED	EDP	PR: CI. DPR.	Will provide in-depth study in specific areas related to neurological, physiological, and mechanical principles of human development.
PET	6419	Clinical Supervision In Physical Education	3	ED	EDP	PR: Florida certificate in physical education, 3 years teaching experience in physical education, principal's recommendation. CI. DPR.	Provides specialized knowledge and skills for effective supervision of interns in physical education including observation and feedback techniques and communication skills.
PET	6425	Curriculum and Instructional Process in Physical Education	3	ED	EDP	PR: CI.	Will provide in-depth study of the structure of subject matter, theoretical curriculum models, styles of teaching, and investigation of the nature of the learner as these relate to teaching physical education. Fieldwork may be required.
PET	6496	Specialized Study In Curriculum And Instructional Process In Physical Education	1-4	ED	EDP	PR: CI. DPR.	Will provide in-depth study in specific areas related to the teaching-learning process of physical education.
PET	6525L	Laboratory Techniques in Exercise Science	3	ED	EDP	PR: Department Approval/Permission of Instructor	The course covers laboratory applications as they relate to exercise science. Emphasis will be placed upon laboratory experiences in biomechanics and exercise physiology involving equipment setup, data collection, data acquisition, and data analysis.
PET	6535C	Professional	3	ED	EDP	PR: CI. DPR.	Personal assessment of current

		Assessment					trends and knowledge in the professional literature. Development of competencies in research review, written and oral communication skills.
PET	6625	Topics in Sports Medicine	3	ED	EDP	PR: Department Approval/Permission of Instructor	This course covers selected topics regarding the science and medicine of sports participation. Areas covered include the medical supervision of the athlete, special populations, general medical conditions, environmental concerns, and sports nutrition.
PET	6645	Physical Education for Individuals with Disabilities	4	ED	EDP	DPR.	This course is concerned with the motor development and physical fitness of individuals with mental and motor related disabling conditions. Study includes psycho-educational characteristics; planning, conducting, and evaluating individualized programs of physical education; and review of relevant literature. Clinical fieldwork is required.
PET	6695C	Physical Education for the Handicapped Practicum	2-4	ED	EDP	PR: PET 6645 or DPR and CI.	School or treatment center-based experience providing evaluation and instructional services. Seminars are conducted to discuss professional literature, teaching strategies, and curriculum organization and evaluation.
PET	6906	Independent Study: Professional Physical Education	1-6	ED	EDP	S/U. PR: CI. DPR.	Independent study. Students must have a contract with an instructor.
PET	6910L	Research Project in Physical Education	1-4	ED	EDP	PR: CI. DPR.	In-depth research study of selected topics concerning human movement. Topics will vary according to needs and interests of student.
PET	6971	Thesis: Physical Education	3	ED	EDP	PR: Dept. Approval Required – Completion of 24 Credit Hours in School of Physical Education, Wellness, and Sport Studies in Student's Graduate Program Plan of Study and Permission from Instructor.	This course will provide the student with experience in research related to the disciplines of physical education and exercise science. Restricted to Graduate Program Majors only and repeatable for up to 6 credit hours.
PGY	5425C	Art Photography III	4	VP	ART	PR: CI.	Advanced work in photography and related media leading to development of personal/expressive statements.
PGY	6108C	Photography	4	VP	ART	PR: CI. Registration by contract only.	
PHC	6000	Epidemiology	3	PH	EPB	PR: CI.	Study of epidemiological methods to evaluate the patterns and determinants of health and diseases in populations.
PHC	6002	Infectious Disease Epidemiology	3	PH	CFH	PR: PHC 6000, PHC 6050.	The course help students to understand epidemiological patterns,etiology and risk factors of infectious diseases as they occur in populations, rather than in individual patients. Familiarity with epidemiological terminology and biostatistics is required.
PHC	6010	Epidemiology	3	PH	EPB	PR: PHC 6000 or CI.	This course is designed to cover

		Methods I					the important concepts in epidemiology and their application in epidemiological research. Emphasis on measures and quantitative techniques, proper interpretation and explanation of quantative measures and results.
PHC	6011	Epidemiology Methods II	3	PH	EPB	PR: PHC 6000, PHC 6010 or CI.	This course will cover methods and practices, principles and concepts in epidemiology research. It will probide training in implementing appropriate study design, analyzing results and presenting research findings to a wide variety of audiences.
PHC	6017	Design and Conduct of Clinical Trials	3	PH	EPB	PR: PHC 6050, PHC 6000 and CI.	The course will familiarize students with the issues in the design and conduct of clinical trials. Factors involved in organizing a trial, randomizing subjects, implementation, and analyzing data from the study will be considered.
PHC	6030	Neuroepidemiology	3	PH	EPB	PR: PHC 6000, PHC 6050. CR: Research Methods, Biostatistics II and Categorical Data Analysis, Survival Analysis.	This course provides an overview of the epidemiology of selected neurologic diseases. Particular emphasis is placed on how methodologic problems apply to the epidemiologic study of a variety of neurologic diseases.
PHC	6050	Biostatistics I	3	PH	EPB	PR: College Algebra or CI.	Concepts, principles, and methods of statistics applied to public health issues.
PHC	6051	Biostatistics II	3	PH	EPB	PR: PHC 6000 and PHC 6050 or CI.	Simple and multiple linear regression, ANOVA (Analysis of Variance) and ANCOVA (Analysis of Covariance), Model building procedure and diagnostics with applications in health research.
PHC	6057	Biostatistical Inference I	3	PH	EPB	PR: Undergraduate Calculus or Equivalent	This course is primarily designed for students majoring in Biostatistics, emphasis is given to understanding and mastering of biostatistical theory and methods such as probability distribution, expectations, estimation and hypothesis testing.
PHC	6060	Biostatistical Case Studies and Consulting I	3	PH	EPB	PR: Entry into the Biostatistics Doctoral Program or CI.	This course provides hands on experience in biostatistical consulting. Biostatistical methods and computer skills are presented, along with the skills required for participating in collaborative and consultative research roles. A Foundation for biostatistical consultation is presented, involving the goals, content, conduct and presentation of Biostatisticians working in applied health settings. Students apply these principles to at least one consultative project and one collaborative project.
PHC	6061	Biostatistical Case Studies and Consulting II	3	PH	EPB	PR: PHC 6060 or CI.	This course prepares students to join an active biostatistical analyst of a multidisciplinary research groups. This collaborative role requires knowledge of successful grant writing and review, site visits, and formal presentations of

							analytical results. Special issues in collaborating research at a distance are discussed. The biostatistical methodology and theory pertaining to collaborative research projects chosen by the students covered in formal lectures.
PHC	6074	Epidemiology of Diseases of Major Public Health Importance	3	PH	EPB	PR: PHC 6000, PHC 6050, and CI.	A study of the distribution and determinants of specific infectious and non-infectious human diseases of public health importance using epidemiological methods.
PHC	6075	Cancer Epidemiology	3	PH	EPB	PR: PHC 6000 or CI.	The course will consider the extent of the cancer problem, present the epidemiology of the major cancer sites, including those of the respiratory, digestive and reproductive systems, and evaluate the potential for primary and secondary preventive efforts.
PHC	6076	Cardiovascular Disease Epidemiology	3	PH	EPB	PR: PHC 6000 or CI.	A review of the major issues in cardiovascular disease epidemiology, including trends, the extent of the disease nationally and internationally, implications of major epidemiological studies, and strategies for prevention.
PHC	6102	Principles of Health Policy and Management	3	PH	HPM	PR: CI.	General principles of planning, management, evaluation, and behavior of public and private health care organizations at the local, state, and national levels.
PHC	6104	Management of Public Health Programs	3	PH	HPM	PR: PHC 6102 and CI.	Application of principles and methods for organization and management of government and non-government public health programs.
PHC	6106	Global Health Program Development and Administration	3	PH	EPB	CR: PHC 6102.	This course will provide students with a solid knowledge base in managing global health programs and projects that will serve them in their field experiences and in any one of the seven focus areas available within the global Health Concentration.
PHC	6110	International Health and Health Care Systems	3	PH	HPM	PR: CI.	Study of global health problems and trends, translated to needs and demands; socio-economic and political impact on health delivery; prevailing international systems compared to U.S. system; the role of international health agencies.
PHC	6111	Global Primary Health Care Strategies	3	PH	HPM	PR: PHC 6102 or CI.	Addresses the rationale, planning and implementation of primary health care programs from an international perspective. Emphasis is given to primary care as an integral part of a health care system and an essential component of public health.
PHC	6112	Global Health Assessment Strategies	4	PH	EPB	CR: PHC 6000, PHC 6050.	This course will provide research methods for evaluation of public health interventions in developing countries requiring a large-scale field trials approach. The course gives technical tools and computing skills for large public

							health field studies.
PHC	6114	Managed Care	3	PH	HPM		The course provides a comprehensive overview of managed care principles, objectives, types and models, relevant policy issues, and management functions and practices applicable to managed care settings. Students will develop an understanding of the impact of managed care on cost, quality and access, and on provider organization and communities.
PHC	6115	Global Health Principles and Contemporary Issues	3	PH	EPB		This course introduces students to the global context of public health and its dimensions particular to international settings; examines major themes and policies in global health; and analyzes health problems and varying responses globally.
PHC	6116	International Health Education	3	PH	CFH	PR: Graduate Status.	This travel abroad course compares the practice and venues of health education as they occur in another country with those in the United States. Specific course location varies. Focus is on comparative assessment of individual and community health education needs, program planning, implementation, and evaluation, coordination and administration of programs, resource availability of programs, resource availability, health communication mechanisms, application of research principles, and status of the health education profession.
PHC	6120	Community Partnerships and Advocacy	3	PH	CFH		Designed to familiarize students with key aspects of developing partnerships among private and public sector organizations for the purposes of assessing and improving the health of communities. Particular skills include coalition development, developing a constituency/partnerships, advocacy, team building, and leadership.
PHC	6146	Health Services Planning and Evaluation	3	PH	HPM	PR: PHC 6050 or CI.	Study of health services planning concepts/methods, and evaluation, with an emphasis on facilities and manpower planning, providing an in-depth orientation to information requirements for health planning, and methods to cover gaps of information.
PHC	6147	Managing Quality in Health Care	3	PH	HPM		Study of methods and tools for managing quality in health care. The developments in applications of quality assurance, utilization review, continuous quality improvement, and total quality management in health services including hospitals, managed care, and public health.

PHC	6148	Strategic Planning and Health Care Marketing	3	PH	HPM	PR: PHC 6102 or CI.	The course reviews the fundamental steps in the strategic planning process and marketing approaches for health care organizations. The textbook and exercises emphasize non-profit organizations.
PHC	6150	Health Policy Analysis	3	PH	HPM	PR: PHC 6102 or CI.	A detailed study of policies, policy making, and policy analysis in health services and their relationship to health planning, management, and health care delivery.
PHC	6151	Health Policy and Politics	3	PH	HPM	PR: PHC 6102 or CI.	This course will examine the role of federal, state, and local government in health care organization, delivery, and financing in the United States and other comparable industrial nations.
PHC	6160	Health Care Financial Management	3	PH	HPM	PR: At least one undergraduate course in Financial or Managerial Accounting and PHC 6102 or CI.	An introduction to the application of financial management practices in health care organizations, cost behavior analysis, working capital management, financial statement analysis, and capital decision making.
PHC	6161	Health Care Finance Applications	3	PH	HPM	PR: PHC 6102 and ACG 6025 or PHC 6160 or CI.	Applications of modern hospital and healthcare organization financial management and decision-making are explored through a combination of lectures and case studies to prepare students for executive roles in healthcare settings.
PHC	6180	Health Services Management	3	PH	HPM	PR: PHC 6102 and undergraduate accounting course or CI.	Advanced study of specific topics in health care organization management including the managerial process, organizational theory, resource utilization and control, and human resource management.
PHC	6181	Organizational Behavior in Health Services	3	PH	HPM	PR: PHC 6102 or CI.	Investigates the impact that individuals, groups, and structure have on behavior within organizations. The application of such knowledge is used toward advancing the effectiveness of health care and related organizations. Special consideration is given to human resource applications. Case studies and other exercises are used.
PHC	6182	Overview of United States and International Emergency/Disaster Management	3	PH	EOH		Public Health and other professionals will be given an overview of the disaster management process. Provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.
PHC	6184	Emergency/Disaster Recovery	3	PH	EOH	PR: PHC 6182	The content of this course is designed to expose the concepts of: 1)recovery models used by the United States and International operations, 2)recovery planning and response to a disaster environment, especially in terms of

							major disaster incidents, 3)broadening and enhancing the understanding of roles and responsibilities, and 4)the importance to the overall recovery effort. In addition to the United States and international focus, the course also addresses the coordination and problem solving aspects of disaster operations.
PHC	6185	Emergency/Disaster Preparedness and Planning	3	PH	EOH	PR: PHC 6182	Emergency Preparedness and Planning provides an overview to preparedness strategies, emergency planning and assessment of hazards and resources. This course provides intermediate level direction and builds upon planning concepts learned in Overview of United States and International Energy Management. Studies include in-depth planning and analytical framework, hazard/vulnerability analysis, and management.
PHC	6186	Public Health Emergencies in Large Populations (PHLEP)	3	PH	EOH		To develop or improve the skills of persons interested in providing emergency health services in humanitarian emergencies. The course is divided into two parts: 1)meeting health needs large populations and 2)the humanitarian and ethical issues of refugees and displaced people. Topics covered include food and nutrition, water and sanitation, providing health services, reproductive health, control of communicable diseases, humanitarian law, human rights, ethics, and the geopolitical issues related to population displacement particularly from conflict.
PHC	6190	Public Health Database Management	3	PH	EPB	PR: PHC 6701.	This course focuses on the creation of databases with applications to public health and clinical research; data entry and database management and checks for accuracy and consistancy, and prepararation of final databases for statistical analysis.
PHC	6191	Quantitative Analysis in Health Care Management	3	PH	HPM	PR: PHC 6050 and PHC 6180, PHC 6430, and PHC 6151 or CI.	This course examines the use of quantitative modeling in the management of health care organizations. Emphasis is given to the application of standard modeling techniques to operational problems in health and medical care settings
PHC	6193	Qualitative Methods in Community Health Research	3	PH	CFH		This course provides classroom instruction and field application of qualitative research methods for studying community health problems. It provides a general introduction to ethnographic field methods, emphasizing systematic approaches to collection and analysis of qualitative data. Students will learn to identify the kinds of research problems for

							which qualitative methods are appropriate, and to critique qualitative research in terms of design, technique, analysis and interpretation.
PHC	6195	Public Health Data, Information and Decision Making	3	PH	HPM	PR: PHC 6050.	This course provides an understanding of public health databases and methods necessary for decision making. The emphasis is on the appropriateness and application of methods widely used for analysis in public health.
PHC	6196	Information Systems in Health Care Management	3	PH	HPM	PR: PHC 6050 or CI.	The course is designed to prepare students to analyze and design information systems in health services organizations.
PHC	6197	Community Health Data Sources and Technology	3	PH	CFH		The purpose of this course is to provide experience in the management and analysis of data sets relevant to public health. Among the data sets considered are vital statistics, health care utilization databases, practitioner and other registries, periodic surveys, selected surveillance systems, and programmatic data.
PHC	6230	Foundations of Humanitarian Assistance	3	PH	PHC		This course is designed to develop or improve the skills of persons interested in providing emergency health services in international humanitarian emergencies.
PHC	6231	Organizing Emergency Humanitarian Actions	3	PH	PHC	PR: PHC 6230.	Topics to be covered in this course include the: use of early warning systems, logistics, security of food, safety, assessment and surveillance, epidemiology, malnutrition, feeding programs, water and sanitation, shelter, and communicable diseases.
PHC	6232	From Emergency to Development and Prevention	3	PH	PHC	PR: PHC 6231.	This course includes: resources, training for local agencies, basic services, cultural issues, Sphere Projects Minimum Standards, basic services, women after a disaster, and health service program.
PHC	6233	Current Challenges in the Humanitarian Field	3	PH	PHC	PR: PHC 6232.	This course will review: leadership issues, advocacy, neutrality and impartiality, the media, prisoner visitations, torture, demobilization and decommissioning of combatants, expatriates, peace-keeping to peace-building, sovereignty, and reconstruction.
PHC	6251	Disease Surveillance and Monitoring	3	PH	CFH		A review of epidemiological principles and methods used in the development and practice of disease and infection surveillance, prevention and control for public health in general and in the context of the hospital setting in particular. Basic epidemiological concepts will be focused in communicable diseases, nosocomial infections, environmental exposures, and emerging diseases. PR: Biostatistics Epidemiology, or CI.
PHC	6301	Analysis of Water and	3	PH	EOH	PR: CHM 3610C or	A study of treatment systems for

		Wastewater				CI.	water and wastewater. Emphasis is given to problems encountered in current technologies, health effects, and environmental impact.
PHC	6303	Community Air Pollution	3	PH	EOH	PR: CHM 3610C or CI.	A study of air pollutants. Emphasis is given to sources and control technologies as well as health effects and environmental impact.
PHC	6304	Environmental Health Microbiology	3	PH	EOH	PR: MCB 3010C or CI.	Techniques for isolation and enumeration of microorganisms of health significance from food and aquatic sources.
PHC	6306	Radiation Health Principles	2	PH	EOH	PR: CI.	An analysis of the basic concepts of radiation and the protection of individuals and population groups from ionizing and non-ionizing radiation as well as establishing relationships between radiation exposure and biological damage.
PHC	6310	Environmental Occupational Toxicology	3	PH	EOH	PR: CI.	A study of the nature of industrial and environmental toxins and toxic by-products, generated and distributed, leading to disease, disability, or death, and the control measures available. Lecture and appropriate laboratory methods are used.
PHC	6312	Environmental Fate of Chemical Releases	3	PH	EOH	PR: CHM 2046, PHY 2054, MAC 2312 or CI.	Provides an understanding of the environmental and physico-chemical factors involved in the transport, transformation, and fate of compounds released to the environment. Material covered includes sources of chemical releases as well as the factors affecting the distribution and transformation of chemicals. Routes of exposure and accumulation by humans and other organisms will also be evaluated.
PHC	6313	Indoor Environmental Quality	2	PH	EOH		Students will learn the importance of maintaining acceptable indoor environmental quality in occupational and residential settings. The course will emphasize current techniques, data interpretation methods, and proper data / conclusions reporting.
PHC	6314	Infection Control Program Design	3	PH	EOH	PR: CI.	This course will review educational program design for health care workers, instructional methods, personnel and financial resource management, role of Infection Control (IC) personnel, development of goals, mission statement, action plans for IC, evaluation of programs, communication with administration, physicians and care givers.
PHC	6350	Occupational Health Risk Assessment	3	PH	EOH	PR: PHC 6050 or CI.	A study of methods for assessing potential hazards associated with occupational health environments. Evaluation of techniques for the development of comparative rankings of problem areas.
PHC	6351	Occupational	3	PH	EOH	CI.	Designed to enhance the skills of

		Medicine for Health Professionals					select health professionals in identifying, evaluating and charting a course of action for medical conditions resulting from occupational exposures and hazards.
PHC	6353	Environmental Risk Assessment	2	PH	EOH	PR: CI.	Designed to provide training for students to develop the skills necessary to identify, characterize, quantify, and manage human health and ecological risks for the protection of human health and the environment.
PHC	6354	Safety and Health Administration	2	PH	EOH		A study of techniques and administrative practices which are instrumental in the initiation and maintenance of programs and procedures that are geared to prevent and reduce work related injuries, illnesses, and discomfort.
PHC	6356	Industrial Hygiene	2	PH	EOH	PR: CI.	A study of the recognition, evaluation, and control of the workplace affecting the health of employees.
PHC	6357	Environmental and Occupational Health	3	PH	EOH	PR: CI.	The study of major environmental and occupational factors that contribute to development of health problems in industrialized and developed countries.
PHC	6358C	Industrial Hygiene--Physical Agents	2	PH	EOH	PR: PHC 6356 and 1 year college physics or CI.	Recognition, evaluation, and control of physical agents in the workplace. Laboratory exercises and field surveys will be conducted in addition to class lectures. Lec/Lab.
PHC	6359	Xenobiotic Metabolism in Environmental and Occupational Health	3	PH	EOH		Study of enzymes involved in biotransformation of foreign compounds important in environmental and occupational health.
PHC	6360	Safety Management Principles and Practices	2	PH	EOH	PR: CI.	A study of safety management as it relates to hazard identification, accident investigation and training, enabling the safety manager to reduce costs to business, industry, and government.
PHC	6361	Industrial Ergonomics	2	PH	EOH	PR: PHC 6360 or CI.	Systems logic and methodology for assessing the potential impact of work environments on the health and safety of workers; application of occupational ergonomics and human factors to the design and evaluation of complex work environments.
PHC	6362	Industrial Ventilation	2	PH	EOH	PR: PHC 6356 or CI.	Basic principles of fluid mechanics and exhaust ventilation are employed in the design and evaluation of the performance of industrial ventilation systems.
PHC	6364	Industrial Hygiene Aspects of Plant Operations	2	PH	EOH	PR: PHC 6356 or CI.	Field visits to industrial plants will be conducted so as to familiarize students without prior experience to the health hazards associated with various processes and the methods of control employed to prevent excessive exposures.
PHC	6365C	Analytical Methods in Industrial Hygiene I	2	PH	EOH	PR: PHC 6356 or CI.	Analytical measuring methodologies and instruments employed in evaluating exposure

							to chemical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data.
PHC	6366C	Analytical Methods in Industrial Hygiene II	2	PH	EOH	PR: PHC 6356 or CI.	Analytical measuring methodologies and instruments employed in evaluating exposure to physical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data.
PHC	6367	Control Aspects of Industrial Hygiene	2	PH	EOH	PR: PHC 6356, PHC 6358.	This course maps out the framework for industrial hygiene controls with an emphasis on engineering controls, administrative controls and personal protection. It is the capstone course for industrial hygiene students, who will apply their knowledge of hazard evaluation to the appropriate selection of controls.
PHC	6369	Industrial Toxicology	2	PH	EOH		This course will focus on specific industries, industrial processes and the chemicals that worker's may be potentially exposed to, and their impact on Public Health. The Standard Industrial Classification (SIC) division structure will be used to identify industries that have been studied by NIOSH or other agencies. For each industry identified, chemical hazards, exposure routes, toxicology effects, and monitoring methods will be discussed emphasizing the need for a multidisciplinary approach in providing information aimed at reducing worker exposures to industrial toxicants.
PHC	6370	Biological and Surface Monitoring	2	PH	EOH	PR: CHM 2200, CHM 2211, BSC 2010 and CI.	This public health course will provide students with a thorough understanding of Biological Monitoring as a method of evaluating exposure to environmental agents. Students learn to distinguish between the limitations of this emerging technology and how to avoid pitfalls associated with misapplication of results. Students learn how to develop sampling strategies for specific chemicals.
PHC	6371	Air Dispersion Modeling for Regulatory Compliance	3	PH	EOH		A study of air pollution meteorology (atmospheric energy balance, inversions and winds), micrometeorology (atmospheric fluid mechanics, turbulence, winds, stability classes, convective boundary layer) and atmospheric diffusion (different theories, Gaussian plume equation, air

							quality models, atmospheric removal processes), supported by a computer laboratory.
PHC	6373	Protecting Public Health: Bioterrorism/Biodefense	3	PH	EOH		The theoretical, historical and contemporary issues associated with public health protection and safety. This includes quarantine, health and safety management, homeland security, and the history of biological warfare.
PHC	6401	Homelessness: Implications for Behavioral Healthcare	3	PH	CFH		A study of the structural, personal, treatment, and sociopolitical issues related to homelessness. Causes of homelessness from structural and personal factors are explored. Quantitative and qualitative data are reviewed to examine the experience of homelessness, pathways into homelessness including mental health, substance abuse, and violence/trauma. A special focus will be on the research conducted by the instructors on services for homeless families and the prevention of homelessness among individuals with severe mental illness.
PHC	6410	Social And Behavioral Sciences Applied to Health	3	PH	CFH	PR: CI.	A review of the conceptual, empirical, and theoretical contributions of the Social and Behavioral Sciences as they contribute to an understanding of health and illness.
PHC	6411	Introduction to Social Marketing for Public Health	3	PH	CFH	PR: CI.	This course is designed to analyze the components and applications of social marketing for public health: theoretical foundations; research methods; strategy development; program design and implementation, materials pretesting, and ethics.
PHC	6412	Health Disparities, Diversity and Cultural Compete	4	PH	CFH		This course is designed to explore health disparities in the U.S. and multi-level strategies to reduce those disparities. Discussions will focus on a critique of the literature from a variety of disciplinary perspectives and an analysis of case studies.
PHC	6413	Family and Community Violence in Public Health	3	PH	CFH		The objective of this course will be to identify and to focus on the most serious policy and research issues which are specific to the field of family violence. The course will cover theory, research, and applied programs in community settings.
PHC	6414	Adolescent Health	3	PH	CFH		The purpose of this course is to provide an overview of adolescent health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions with adolescents and the skills needed for effective teaching methodologies to enhance health provider communication with adolescents.

							This course is not restricted to Public Health graduate students.
PHC	6418	Public Health and Aging	3	PH	CFH		A study of specific health promotion and disease prevention strategies for older adults in the context of community health, immunizations, nutrition, exercise, and stress management. Also management for chronic disease, delay of disabilities, and types of long term care deliver and settings are examined.
PHC	6419	Global Issues in Community and Family Health	3	PH	CFH		This course provides an overview of current public health issues and problems affecting communities and families around the world. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development. Problems are addressed in terms of etiology, impact and intervention strategies. Reg. Permit Required. CI.
PHC	6420	Health Care Law, Regulation and Ethics	3	PH	CFH		This is a survey course of the most significant issues in health care law. Core topics include licensure, malpractice, reproductive issues, the right to die, and managed care. Students will develop and understanding of substantive law, legal decision making, and the relationship between health care law and ethics. Graduate students from other departments may take the course.
PHC	6421	Public Health Law and Ethics	3	PH	HPM	PR: PHC 6102 recommended.	This course provides students with an overview of major ethical and legal concepts. The course considers the role of the legal system in resolving public health problems through the legislature, the courts, and administrative agencies.
PHC	6422	Environmental Health Law	2	PH	EOH	PR: EOH 6357.	Review and analysis of Federal and State laws and regulations in relation to the pollution, regulation and protection of the air, water, and environment issues in general.
PHC	6423	Occupational Health Law	2	PH	EOH	PR: EOH 6357.	Review and analysis of Federal and State laws and regulations in relation to Occupational Health and safety.
PHC	6430	Health Economics I	3	PH	HPM	PR: ECO 2023 or equiv. and CI.	Microeconomic analysis of the structure of the health care industry and economic incentives facing physicians, patients, and hospitals.
PHC	6433	Health Economics II	3	PH	HPM	PR: PHC 6430 or CI.	Second of a two part sequence surveying various applications of economic principles and methods to current issues in public health. Emphasis on efficiency goals of health care policy and the use of economic analysis in the design of such policy.
PHC	6435	Economics of Health Insurance	3	PH	HPM	PR: PHC 6430 or CI.	Presents an overview of major health insurance issues, including demand, supply, employment

							based coverage, the uninsured, government sponsored programs, managed care, and national health. The analysis will be based on microeconomic tools and is intended for management or policy oriented students with an interest in health insurance and managed care.
PHC	6441	Social Determinants of Health	3	PH	CFH	PR: PHC 6410.	The course provides students with a basic understanding of our society's most pervasive social disparities in health status and prepares students to evaluate underlying theories and promising interventions related to social determinants of health.
PHC	6442	Global Health Applications in the Field	2	PH	EPB		This course prepares students for fieldwork in the global public health arena. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development.
PHC	6500	Theoretical and Behavioral Basis for Health Education	4	PH	CFH	PR: PHC 6410.	Assessment of and current methodologies related to understanding and influencing psychosocial, cultural, and situational factors in voluntary behavior change process; theories of health behavior.
PHC	6505	Health Education Program Planning	3	PH	CFH	PR: PHC 6500 or CI.	Analysis of the planning and development process for health education programs.
PHC	6506	Program Planning Methods in Community Health	3	PH	CFH	PR: PHC 6500 or CI.	This course is designed to prepare students to analyze the planning and development process for community health programs. The PRECEDE-PROCEED model and intervention Mapping will be used as the primary planning frameworks.
PHC	6507	Health Education Methods	3	PH	CFH	PR: PHC 6500 or CI.	Prepares students to analyze and incorporate effective content and process in health education program delivery. Course not restricted to health education majors.
PHC	6508	Case Studies in Health Education	3	PH	CFH	PR: PHC 6500, 30 hours toward MPH, or CI.	An assessment of selected case studies in Health Education with an emphasis on application, analysis, and evaluation of health education theory and practice to various public, private, health care, and school settings.
PHC	6510	Exotic and Emerging Infectious Diseases	3	PH	EOH	PR: CI.	A study of human infectious disease with particular emphasis on diseases caused by parasites, viruses, bacteria, and fungi found in sub-tropical and tropical environments.
PHC	6511	Public Health Immunology	3	PH	EOH	PR: CI.	Immunology as applied to public health. Emphasis is on applications of immunology and immunological techniques used in surveillance, prevention, and control of public health problems.
PHC	6512	Vectors of Human Disease	3	PH	EOH	PR: CI.	Biology of the vectors of human disease: major groups include the

							arthropods, mollusks, and mammals. Emphasis on the ecology of the vectors and their transmission of pathogens as they relate to public health.
PHC	6513	Public Health Parasitology	3	PH	EOH	PR: CI.	Human diseases caused by parasite infection with emphasis on diseases related to environmental exposure and of public health importance. Major groups include the protozoan, cestodes, trematodes, and nematodes of human disease.
PHC	6514	Infectious Disease Control in Developing Countries	3	PH	EOH	PR: PHC 6000.	Focuses on disease control strategies for selected infectious and communicable diseases. Diseases covered have been selected on the basis of their relative contribution to the burden of disease in developing countries.
PHC	6517	Infectious Disease Prevention Strategies	3	PH	EOH	PR: CI.	This course focuses on surveillance criteria, outbreak criteria, data collection and study design. Also included will be data analysis and reporting; interaction with public health agencies; preparation for Joint Commission on Accreditation of Healthcare Organizations (JCAHO); prevention and intervention; sanitation, disinfection, antisepsis and sterilization; role of immunization, antimicrobial prophylaxis and therapy.
PHC	6521	Public Health Nutrition	3	PH	CFH	PR: CI.	An analysis of nutritional issues concerned with health and disease. Biological and social interactions are studied as they relate to the development, monitoring, and evaluation of community nutrition intervention programs.
PHC	6522	The Biological Role of Nutrition in Health	3	PH	CFH	PR: HUN 2201, ZOO 3713C, PCB 4723, BCH 3023, or CI.	Advanced study of the biochemical and physiological roles of nutrition in health and disease.
PHC	6523	Policies and Practices in Maternal and Child Nutrition	3	PH	CFH	PR: CI.	Study of nutrition policies and practices in maternal and child health from pregnancy through the pre-school years. Focus on issues concerned with risk identification, interventions and outcome evaluations.
PHC	6524	Public Health Nutrition for the Adult and Aging Population	3	PH	CFH	PR: PHC 6521, PHC 6522, or CI.	Study of policies and practices of nutrition in health promotion and disease prevention in adults. Focus on issues concerned with risk identification, nutrition interventions and outcome evaluations.
PHC	6526	Nutrition Assessment of Individuals and Communities	3	PH	CFH	PR: PHC 6521, PHC 6522, or CI.	Comparative study of anthropometric, biochemical, dietary, clinical and socioeconomic indicators of nutritional status including the differential use of these indicators for individuals and communities.
PHC	6527	Case Studies in Public Health Nutrition	3	PH	CFH	PR: CI.	Capstone course intended to provide a unifying opportunity to utilize concepts, principles and

							skills learned from other public health nutrition courses.
PHC	6530	Maternal and Child Health I: Issues and Concepts	3	PH	CFH	PR: CI.	The purpose of this course is to provide for the foundation of Maternal and Child health for students who will be concentrating in this area, or as an overview for non-majors.
PHC	6531	Health Programs for Children with Special Needs	3	PH	CFH	PR: CI.	A study of causative factors, characteristics, care needs and programs for handicapped children with emphasis on health and health care issues.
PHC	6532	Women's' Health Issues in Public Health	3	PH	CFH	PR: CI.	A public health orientation of women's health needs with their impact on society, family, and children.
PHC	6533	Health Program Development and Change Process	3	PH	CFH	PR: CI.	A study of approaches to program development, implementation and management of change process in maternal and child health.
PHC	6534	Cultural Competency in Children's Mental Health	3	PH	CFH	PR: Graduate Status	The course will explore the need of cultural competence in provision of mental health services in a multicultural society. The course will examine culture and ethnicity, multiculturalism, and intercultural communication. The course will define cultural competence from the perspective of the current different approaches to the concept, and examine cultural competence at both mental health systems and service provision levels. Case studies of how cultural competence is implemented by different mental health organizations will be examined.
PHC	6535	International Maternal and Child Health	3	PH	CFH	PR: CI.	The course examines current priorities for improving the health of mothers and children in developing countries. The emphasis is on understanding MCH issues within the larger context of primary health care and sociocultural factors which influence behavior.
PHC	6536	Population and Community Health	3	PH	CFH	PR: PHC 6410 or CI.	Population information and applications in health programs. Topics include: population growth and decline, structure, distribution, fertility, morbidity and mortality, and migration as applied to maternal, child and community health.
PHC	6537	Maternal And Child Health II: Case Studies in MCH Programs, Policies and Research	3	PH	CFH	PR: PHC 6530, PH Core Courses, or CI.	Capstone course intended to provide unifying opportunity to utilize concepts, principles, and skills learned in other MCH and public health courses.
PHC	6540	Public Mental Health	3	PH	HPM	PR: CI.	Current state of community mental health emphasizing history and future of the movement and involvement of public agencies; methods, goals, evaluation of treatment, funding and administration of programs.
PHC	6541	Public Mental Health	3	PH	HPM	PR: PHC 6540, PHC	General principles of management

		Administration				6102 or CI.	theory, methods, administrative processes, and organizational structure of public and private mental health organization in hospital and ambulatory care settings.
PHC	6543	Foundations in Behavioral Health Systems	3	PH	CFH	PR: Graduate Status	This web-based course is a graduate course in Behavioral Health within the Department of Community and Family Health. It is designed to provide the graduate student with an overview and understanding of the significant issues and trends in community & family mental health delivery systems in America. Four major areas of mental health will be emphasized: 1) history and legislation; 2) systems delivery; 3) programs and policies; 4) and selected at-risk populations.
PHC	6544	Children's Mental Health Services	3	PH	CFH	PR: Permit Required CI	The content of this course is designed to prepare professionals to work in partnership with families and other professionals and participate in interdisciplinary teams in a variety of settings to meet the needs of children with mental health problems.
PHC	6545	Evaluation in Mental Health	3	PH	CFH	PR: Biostatistics I or Equivalent	A study of the theories and practical approaches to the development of evaluative methods for behavioral health.
PHC	6547	Case Management in Community Mental Health	3	PH	CFH	PR: Graduate Status	This course focuses on case management systems with a special emphasis on clinical case management for vulnerable populations, especially persons with severe mental illness and older adults. This course is designed for persons who are interested in providing case management services, managing such services, or have an interest in the field. The course examines elements critical for the effective provision and evaluation of case management services.
PHC	6548	Grant Writing in Mental Health	3	PH	CFH	PR: Graduate Status	This course focuses on the process and problems of grant writing in mental health. The course is designed for persons who are interested in identifying and evaluating mental health research questions and demonstration projects. The curriculum examines criteria for good mental health research and provides students with tools for successful grant writing. Students will learn how to develop and market fundable project ideas, where to start, what funding agencies look for, and how to construct a fundable mental health proposal.
PHC	6549	HIV and Mental Health	3	PH	CFH	PR: Graduate Status	This course will provide students with an interdisciplinary understanding of HIV/AID, focusing primarily on behavioral

							health and ethical issues. Students will study the unique contributions to prevention and treatment that both mental healthcare workers and theories can make to persons affected by HIV.
PHC	6550	Community-Based Prevention in Behavioral Health	3	PH	CFH	PR: Graduate Status	This web-based course is a graduate course in Behavioral Health within the Department of Community and Family Health. It is designed to provide the graduate student with an overview and understanding of the significant issues and trends in community & family behavioral health with an emphasis on behavioral health promotion and disease prevention. Major areas are: 1) overview of promotion and prevention in the United States; 2) systems delivery; 3) programs and Policies; 4) and selected at-risk populations.
PHC	6560	The Public Health Laboratory System	3	PH	HPM		This course deals with the roles of the public health laboratory in the Public Health System and thus familiarizes the student with the types, functions and interactions of Public Health Laboratories.
PHC	6562	Microbiology for Healthcare Workers	3	PH	CFH	PR: BSC 2010, BSC 2011, CHM 2046, or CI.	An overview of contemporary microbiology, with emphasis on the significance of microorganisms in the environment and clinical disease. The structure, physiology, molecular genetics, taxonomy, immunological and clinical aspects, and public health implications of microorganisms will be covered.
PHC	6590	Reproductive Health Trends And Issues	3	PH	CFH	PR: CI.	Provides understanding of reproductive factors in Health and Disease and its impact on community, family, and individual quality of life, and to apply current advances in FP and MCH care components and management in Public Health Programs.
PHC	6700	Research Methods in Epidemiology	3	PH	EPB	PR: PHC 6000, PHC 6050 and CI.	Planning, execution, analysis and intervention of epidemiological studies.
PHC	6701	Computer Applications for Public Health Researchers	3	PH	EPB	PR: CI.	Course covers essential computer-based techniques for a public health researcher; data entry, editing, management, subsample selection, and data encryption for confidentiality are all covered. SAS is used extensively. Course open to all graduate students.
PHC	6705	Formative Research Methods in Social Marketing	3	PH	CFH	PR: Introduction to Social Marketing	This course is designed to familiarize students with the basic principles and techniques in conducting formative research for social marketing program development. The major topics covered include: principles of formative research design, qualitative data collection methods, interviewing techniques, qualitative data analysis, survey

							design, pretesting, and implementation, ethical principles and protection of human subjects.
PHC	6706	Focus Group Research Strategies	3	PH	CFH		This course is an intensive overview of focus group procedures in the public health environment. Attention will be placed on question development, moderator skills, analysis strategies and planning critical logistical details of focus group interviews, and analyzing results of focus group interviews. The course will examine unique methodological characteristics of focus group interviews, identify emerging trends, and explore areas of appropriate and inappropriate use.
PHC	6708	Evaluation Methods in Community Health	3	PH	CFH	PR: PHC 6505 or CI.	This course will cover contextual issues surrounding evaluation, evaluation designs and methodological issues, steps involved in conducting an evaluation, communicating the results, and ensuring that evaluation findings are used by intended users.
PHC	6712	Air Pollution Research Seminar	1	PH	CFH		This seminar course is designed to facilitate communication, sharpen research skills in the context of air pollution monitoring and modeling.
PHC	6715	Research Foundations in Public Health	3	PH	CFH	PR: PHC 6000 and PHC 6050.	Course covers foundations of research for understanding and evaluating public health research; plus how to plan and conduct research with minimal assistance including proposal development, grant writing and budgets. Nonmajors accepted. Non-repeatable.
PHC	6760	Health Program Evaluation	3	PH	HPM	PR: PHC 6430, PHC 6180, and PHC 6151 or CI.	The course develops the skills needed to evaluate health and medical care programs. Emphasis is given to research design, determination of qualitative and quantitative criteria, measurement techniques, and interpretation of findings
PHC	6907	Independent Study: Public Health	1-3	PH	PHC	PR: CI. S/U.	Independent study determined by the student's needs and interests.
PHC	6930	Public Health Seminar	1-3	PH	PHC	PR: Graduate Standing. S/U.	Interaction of faculty, students and select health professionals in relation to public health issues and research.
PHC	6931	Advanced Seminar In Social & Behavioral Sciences Applied To Health	3	PH	CFH	PR: CI.	The course overviews the use of social science theory and methods in health problem analysis and program design. For students with appropriate background.
PHC	6934	Selected Topics in Public Health	1-6	PH	PHC	PR: CI.	The content of this course will be governed by student demand and instructor interest.
PHC	6945	Supervised Field Experience	1-12	PH	PHC	PR: CI. S/U only.	Internship in a public health agency or setting. Application of administrative, program, and/or research models now employed in government and private public health organizations.

PHC	6971	Thesis: Master Of Science in Public Health	2-19	PH	PHC	PR: CI.	Research-oriented study for students seeking the M.S. degree in Public Health.
PHC	6977	Special Project: MPH	3	PH	PHC	PR: CI. S/U.	In-depth study of a selected issue in public health. A topic will be selected according to student's needs and interests.
PHC	7001	Practical Issues in Epidemiology	3	PH	EPB	PR: PHC 6000.	Provides an understanding of the everyday tasks faced by an epidemiologist working in the field from hypothesis generation to writing up of study findings. Required for Ph.D. students; elective for all other graduate students.
PHC	7008	Neuroepidemiology	3	PH	EPB	PR: PHC 6000, PHC 6050.	This course provides an overview of the epidemiology of selected neurologic diseases. Particular emphasis is placed on how methodologic problems apply to the epidemiologic study of a variety of neurologic diseases.
PHC	7015	Epidemiologic Study Design and Protocol Development	3	PH	EPB	PR: PHC 6000, PHC 6700, PHC 6051 and CI.	The course will provide the student with the opportunity to acquire knowledge and skill in formulating a research problem and developing an appropriate epidemiologic study design. A detailed proposal will be developed, presented, and defended.
PHC	7018	Environmental Epidemiology	3	PH	EPB	PR: PHC 6000 and CI.	This course will consider the relationship between environmental (non-occupational) factors and the occurrence of disease in human populations, including the chemical and physical extrinsic agents to which humans are exposed.
PHC	7019	Occupational Epidemiology	3	PH	EPB	PR: PHC 6000 and CI.	Examines the existing epidemiologic data pertaining to the health effects of specific occupational exposures and the epidemiologic methods involved in the conduct of occupational studies.
PHC	7028	Advanced Clinical Trials	4	PH	EPB	PR: PHC 6000, PHC 6050, PHC 6700, PHC 6701, PHC 6017.	The many facets of clinical trials will be covered including study design, ethics, monitoring, and analysis. Real datasets will be used to provide the student with the opportunity to learn database management and data analysis using SAS.
PHC	7053	Generalized Linear Models	3	PH	EPB	PR: PHC 7058	The course provides an in-depth coverage of the theory of generalized linear models with application in public health. Topics covered are numerical algorithms, exponential family, modeling checking, logistic regression, loglinear models, estimating equations.
PHC	7054	Advanced Biostatistical Methods	3	PH	EPB	PR: CI	This course introduces students to both theoretical and practical problems in specialized advanced topics in Biostatistics. Alternate topics include Applied Multivariate Statistics, Nonparametric Methods,

							Spatial Statistics in Health Sciences and Advanced Sampling Design. Students can take this course repeatedly.
PHC	7055	Biostatistical Computing	3	PH	EPB	PR: STA 6447 and PHC 7058, or CI.	This course provides a broad foundation in modern biostatistical computing methods relevant to public health research. It prepares Ph.D. students with advanced computing skills for dissertation research. Topics include algorithms in matrix algebra, Newton Raphson, Fisher's scoring, the EM algorithm, bootstrap, random number generation, Monte Carlo Markov Chain, and data augmentation.
PHC	7056	Longitudinal Data Analysis	3	PH	EPB	PR: PHC 7058 and PHC 7053 or CI.	This course is a discussion of recent development of methods for analysis of longitudinal data. Covered topics include generalized estimating equations, mixed effects models, hierarchal models.
PHC	7058	Biostatistical Inference II	3	PH	EPB	PR: STA 6447 or CI.	This course covers the foundation of biostatistical inference, required for biostatistic program. Topics include likelihood theory, modern Bayes theory, estimation and testing, non-parametric theory.
PHC	7059	Advanced Survival Data Analysis	3	PH	EPB	PR: STA 6647 and PHC 7058	This course addresses advanced topics of survival data analysis. Topics include recurrence multiple events and faulty models. Counting process based theory is discussed. Real data sets are used for illustration.
PHC	7152	Policy and Practice in Community and Family Health	3	PH	CFH		This course is designed to prepare students to critically analyze issues and develop skills pertaining to effective policy development and practice in community and family health public health programs.
PHC	7317	Risk Communication in Public Health	2	PH	CFH		Communicating with the public about environmental and occupational health risks that affect individuals, families, and communities is a central task facing public health professionals. Analyzes the structure, function, content and process of risk communication in order to maximize effective, responsible and ethical public interaction and to describe the issues related to the legal implementation of risk communication in public health organizations.
PHC	7368	Aerosol Technology in Industrial Hygiene	3	PH	EOH	Admission to Ph.D. program or CI.	An advanced study of the properties, behavior, and measurement of aerosols, including the physical and chemical principles affecting behavior. Various applications of aerosol technology in industrial hygiene will be investigated, including inhalation and deposition of aerosols, aerosol sampling, and

							control.
PHC	7405	Theoretical Foundations Community and Family Health	3	PH	CFH		This course is designed for beginning public health doctoral students specializing in Community and Family Health to encourage scholarly discourse of pertinent concepts, theories, and paradigms, and the critical analysis of related scholarly works.
PHC	7417	Family Systems and Public Health	3	PH	CFH		Intended for doctoral students in Community and Family Health interested in social and behavioral theories of family and health behavior. Covers an array of theoretical perspectives related to the process, structure and function of systems. Examines the human values associated with intimate and non-intimate relationships that comprise healthy relational settings. Implications of these conceptual and theoretical frames for public health issues will be discusses.
PHC	7703	Advanced Research Methods in Epidemiology	3	PH	EPB	PR: PHC6700. CR: Computer Applications.	Course emphasizes summary and statistical analysis of data. Methods include life tables, logistic and proportional hazards regression, assessment of confounding, interaction, and bias. Includes a two-hour weekly computer lab.
PHC	7708	Applied Research Methods in Community and Family Health	3	PH	CFH	PR: PHC 6050, PHC 6700, PHC 6708, or CI.	A detailed study of philosophical questions and applied techniques of research in community and family health. A project oriented course to prepare students to conduct their own independent research.
PHC	7709	Case Studies in the Quantitative Analysis of Public Health Data	3	PH	CFH	PR: PHC 6051 or Equivalent.	Focuses on training students in public health applications of multivariate analytic techniques including factor analysis, regression analysis, multivariate analysis of variance, event history analysis, multi-level modeling and structural equation modeling.
PHC	7908	Specialized Study in Public Health	1-9	PH	PHC	PR: CI. Advanced graduate standing.	Demonstration of an in-depth study in a specialized public health area. This study may be used to address areas where a student needs to demonstrate a higher level of competency.
PHC	7910	Directed Research	1-19	PH	PHC	PR: CI, Graduate Standing. S/U only.	Advanced research design and application.
PHC	7931	Advanced Interdisciplinary Seminar in Public Health	1-3	PH	PHC	PR: Advanced Standing, Ph.D. or Advanced Master's only. For advanced graduate students in Public Health programs.	Students, faculty and other health professionals will participate in presenting and discussing contemporary health issues and possible solutions.
PHC	7934	Writing for Scholarly Publication in Health Science	3	PH	PHC		The purpose of this course is for the development of skills that culminate in publishable works in health-related journals and other related publications. There will be an emphasis on writing, editing,

							reviewing and other applicable skills.
PHC	7935	Special Topics In Public Health	1-3	PH	PHC	PR: CI.	Content will include recent or current issues in public health.
PHC	7936	Seminar in Health Care Outcomes Measurement	3	PH	PHC	PR: CI.	This course is designed to prepare doctoral students and advanced masters degree students to design both population-based and practice-based studies of health care outcomes.
PHC	7937	Advanced Seminar in Grant-Writing	3	PH	CFH	PR: Doctoral Status or CI.	This course addresses advanced skills and techniques necessary for writing successful research grant proposals. The focus is on writing grant proposals aimed at public health research and evaluation of public health interventions.
PHC	7980	Dissertation	2-19	PH	PHC	PR: Admission to candidacy.	
PHH	6265	Continental Philosophy I: Phenomenology to Hermeneutics	3	AS	PHI		A general survey of the 20th century continental schools of phenomenology, ontology, and hermeneutics, with special emphasis on the works of Husserl and Heidegger.
PHH	6266	Continental Philosophy II: Political Theory and Continental Social Theory	3	AS	PHI		A general survey of the 20th century continental social and political theory, dealing with both the younger and the older generations of the Critical Theory tradition, together with their contemporaries and critics.
PHH	6267	Continental Philosophy III: From Structuralism to Deconstructionism	3	AS	PHI		An examination of leading philosophical texts in 20th century continental philosophical movements known as structuralism, post-structuralism, postmodernism, and deconstruction, with special emphasis on the works of Michel Foucault and Jacques Derrida.
PHH	6938	Seminar in the History of Philosophy	3	AS	PHI	PR: GS or CI.	A seminar in the history of philosophy. The instructor will determine the subject matter. Variable titles: Ancient, Modern, Recent, Contemporary.
PHI	5135	Symbolic Logic	3	AS	PHI	PR: PHI 2100 or CI.	Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.
PHI	5225	Philosophy of Language	3	AS	PHI	PR: Eight hours of philosophy, major in linguistics, or CI.	An examination of semantically, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.
PHI	5913	Research	1-4	AS	PHI	PR: CI. Approval slip from instructor required.	Individual research supervised by a faculty member.
PHI	5934	Selected Topics	1-3	AS	PHI	PR: CI. Approval slip from instructor required.	Selected topics according to the needs of the student.
PHI	6105	Seminar in Logic	3	AS	PHI	PR: GS or CI.	Foundations and basic problems of logical theory. Seminar format.
PHI	6155	Modal Logic	3	AS	PHI	PR: PHI 2100 and GS	A study of the main systems of

						or CI.	Modal Logic together with their metatheory, with considerable attention to the varieties of modality.
PHI	6305	Seminar in Epistemology	3	AS	PHI	PR: Major in philosophy or psychology and CI.	An analysis of recent and contemporary problems of knowledge. Seminar format.
PHI	6405	Seminar in the Philosophy of Natural Science	3	AS	PHI	PR: GS or CI.	A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. Seminar format.
PHI	6425	Seminar in the Philosophy of Social Science	3	AS	PHI	PR: 8 hours of philosophy or CI.	Philosophical issues arising in the social sciences; value assumptions, laws and the theories, models, etc. Seminar format.
PHI	6506	Seminar in Metaphysics	3	AS	PHI		In this course students will examine selected topics in classical and contemporary metaphysics, for example, the concept and categories of Being or existence, the existence of God, the problem of universals or general terms, the a priori, the mind--body problem, and the identity thesis.
PHI	6605	Seminar in Ethics	3	AS	PHI	PR: GS and CI.	Advanced study of the problems of moral philosophy.
PHI	6634	Seminar in Biomedical Ethics	3	AS	PHI		A focused examination of a particular topic in biomedical ethics such as clinical bioethics, healthcare organizational ethics, philosophy of medicine, medical ethics and law, or medical ethics and conflict resolution.
PHI	6665	Metaethics	3	AS	PHI	PR: PHI 2600 or CI or GS.	A study of alternative theories of metaethics including emotivism, moral point of view, supererogate virtue theory.
PHI	6706	Seminar in the Philosophy of Religion	3	AS	PHI	PR: GS or CI.	An analysis of fundamental religious concepts in terms of contemporary philosophy. Seminar format.
PHI	6808	Seminar in Aesthetics	3	AS	PHI	PR: GS or CI.	An analysis of fundamental special problems of aesthetics; value, perception, communication, technique, context. Seminar format.
PHI	6908	Directed Research	1-19	AS	PHI	PR: GR. ML. S/U.	
PHI	6934	Selected Topics	1-3	AS	PHI	PR: GS and CI.	Selected topics according to the needs of the student. Approval slip from instructor required.
PHI	6945	Graduate Instruction Methods	1-3	AS	PHI	S/U.	Special course to be used primarily for the training of teaching assistants.
PHI	6971	Thesis: Master's	2-19	AS	PHI	PR: CC. S/U.	
PHI	7980	Dissertation: Doctoral	2-19	AS	PHI	PR: Admission to candidacy.	
PHM	5125	Topics in Feminist Philosophy	3	AS	PHI		A study of recent feminist philosophical approaches to epistemology, aesthetics and political philosophy. May also be

							taken for credit in Women's Studies.
PHM	5126	Social Issues in Biomedical Ethics	3	AS	PHI		An examination of the social and political issues arising from rapid changes in medicine and technology. Topics covered may include social issues related to the just distribution of health care, reproductive technologies, HIV and AIDS, eugenics, genetic testing, and maternal-fetal relations.
PHM	6105	Seminar in Social Philosophy	3	AS	PHI	PR: CI.	A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy (all types). Seminar format.
PHM	6305	Seminar in Political Philosophy	3	AS	PHI	PR: GS or CI.	An examination of the main political philosophies. Seminar format.
PHM	6406	Seminar in the Philosophy of Law	3	AS	PHI	PR: GS or CI.	A study of the metaphysical, ethical, and epistemological bases of law. Seminar format.
PHM	6506	Seminar in the Philosophy of History	3	AS	PHI	PR: GS or CI.	The analysis of language and logic of historical explanation, historical idealism, historical materialism, positivism, and historical sociology. Seminar format.
PHM	6646	Seminar in Development Ethics	3	AS	PHI		This course presents and critically examines the major ethical theories related to both national and international development institutions, policies, and practices. Open to all graduate students.
PHP	6005	Plato	3	AS	PHI	PR: GS or CI.	A systematic study of Plato's dialogues.
PHP	6015	Aristotle	3	AS	PHI	PR: GS or CI.	A systematic study of Aristotle's philosophy.
PHP	6415	Kant	3	AS	PHI	PR: GS. CR: Computer Applications.	A survey of Kant's critical philosohpy, emphasizing transcendental epistemology and Kant's critique of metaphysics. This course is open to graduate students (majors and non-majors). Prior knowledge of the history of philosophy is required, in particular of early-modern philosophy.
PHT	5021	Professional Issues I	2	ME	PHT		Foundations of systems thinking, decision making, professional expression, responsibility, and accountability (including legal/ethical concepts), culture and argumentation for the roles of the physical therapist in administration, consultation, critical inquiry, education and patient/client management. Restricted to majors.
PHT	5022	Professional Issues II	2	ME	PHT		An introduction to critical injury and educator roles and responsibilities; explores the concepts of decision-making, evaluation of research, theories of learning, research and clinical pathways. Restricted to majors.
PHT	5023	Professional Issues III	3	ME	PHT		Focus on legal, ethical, and professional responsibility and accountability of the physical therapist. Learners will further

							develop their abilities to make legal and ethical decisions. The class will examine state laws governing the practice of physical therapy and other health care services. Restricted to majors.
PHT	5171C	Foundational Science I	3	ME	PHT		Introduction to the peripheral neuromuscular, skeletal, integumentary, and circulatory systems in normal and pathological states. Includes the anatomy and physiology of bones, joints, skin, nerves, and blood vessels, as well as the response of these tissues to injury and their potential for healing. Restricted to majors.
PHT	5172C	Foundational Science II	1	ME	PHT		Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.
PHT	5173C	Foundational Science III	2	ME	PHT		Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.
PHT	5184	Movement Science I	2	ME	PHT		A basic introduction to movement science and its foundational principles from four different perspectives: biomechanics; kinesiology; exercise physiology; and motor control, learning and development. Restricted to majors. Repeatable for 2 cr.
PHT	5185	Movement Science II	3	ME	PHT	PR: PHT 5184	Elaboration of movement science principles with emphasis on biomechanics, kinesiology, functional anatomy, exercise physiology, histopathology, motor control and connective tissue properties. Restricted to majors. Repeatable for 3 cr.
PHT	5271	Patient/Client Management I	3	ME	PHT		Foundational principles of histology, pathology, histophathology, applied biomechanics, pharmacology and clinical medicine are introduced and applied to the physical therapy management of individuals with musculoskeletal disorders involving the limbs. Restricted to majors.
PHT	5272	Patient/Client Management II	2	ME	PHT		Application of principles of patient/client management to patients with cardiopulmonary disease or dysfunction and diabetes in order to identify and write plans of care for related movement dysfunction. Restricted to majors.
PHT	5273	Patient/Client Management III	3	ME	PHT		Learners apply principles of patient/client management to patients with progressive, non-progressive diseases and injuries of the nervous system. Restricted to majors.
PHT	5275C	Physical Therapy Science I	4	ME	PHT		Introduction to physical therapy skills in examination, evaluation, and diagnosis for clients with uncomplicated musculoskeletal

							impairments involving the extremities. Emphasis on obtaining a history and performing physical therapy tests and measures leading to a differential diagnosis by application of principles of movement. Restricted to majors.
PHT	5276C	Physical Therapy Science II	4	ME	PHT		Introduction to physical therapy skills used in examination, evaluation, diagnosis of and intervention for clients with activity limitations associated with cardiovascular, hematological, or pulmonary disorders. Major emphasis on selecting, justifying, administering, and interpreting physiological responses to physical agents and therapeutic exercises. Restricted to majors.
PHT	5277C	Physical Therapy Science III	3	ME	PHT		Examination, evaluation, diagnosis, and intervention for movement-related problems secondary to impairments of the nervous system. Contemporary theories of motor development, motor learning and motor control will be introduced. Student knowledge will be demonstrated with clinical problem-solving scenarios. Restricted to majors.
PHT	5283C	Physical Therapy Procedures	3	ME	PHT		Introduction to selected physical therapy interventions, obtaining a patient history, and conducting a systems screen. Restricted to majors. Repeatable for 3 cr.
PHT	5316	Medical Management I	1	ME	PHT		Introduction to medical diagnostics, pharmacological principles, and common orthopedic surgical procedures as components of medical management including repair of bone and soft tissue. Restricted to majors. Repeatable for 1 credit.
PHT	5380	Medical Management II	1	ME	PHT	PR: PHT 5316	Seminar on the medical and surgical management; epidemiology; pathophysiology; pharmacology of injuries and diseases of the cardiopulmonary system including repair and regeneration. Restricted to majors. Repeatable for 1 credit.
PHT	5822	Clinical Education I	3	ME	PHT		Initial clinical practice experience for the development of patient care skills. The course is graded Satisfactory/Unsatisfactory. Restricted to majors.
PHT	5906	Directed Independent Study	1-10	ME	PHT		Directed independent stud, content to be decided. Restricted to majors.
PHT	5934	Special Topics I	1-10	ME	PHT		Exploration of physical therapy practice issues. Topics may vary each semester the course is offered. A seminar and/or lab course. Restricted to majors. Not repeatable for credit.
PHT	5960	Clinical Proficiency and Problem Solving I	1	ME	PHT		Practicum for patient/client management of individuals with musculoskeletal related movement

							disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.
PHT	5961	Clinical Proficiency and Problem Solving II	1	ME	PHT	PR: PHT 5960	Practicum for the synthesis of skills, knowledge, and values for management of individuals with cardiopulmonary and endocrine related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.
PHT	6015	Orientation to Physical Therapy	var.	ME	PHT		Concepts of a profession, the physical therapy profession, and the roles of the physical therapist are applied to the practice of physical therapy and its professional organization. The Guide to Physical Therapy Practice is introduced.
PHT	6174	Movement Science I - DPT	var.	ME	PHT		A basic introduction to movement science and its foundational principles from four different perspectives: biomechanics; kinesiology; exercise physiology; and motor control, learning and development. Restricted to majors.
PHT	6178	Movement Science II - DPT	var.	ME	PHT		Elaboration of movement science principles with emphasis on biomechanics, kinesiology, functional anatomy, exercise physiology, histopathology, motor control and connective tissue properties. Restricted to majors.
PHT	6186	Movement Science III	4	ME	PHT	PR: PHT 5184, PHT 5185	Integration of movement science concepts (biomechanics; kinesiology; functional anatomy; motor control, learning and development; and exercise physiology) to planning interventions for complex movement disorders. Restricted to majors. Repeatable for 4 cr.
PHT	6284C	Physical Therapy Science I - DPT	var.	ME	PHT		Introduction to theoretical foundation and clinical practice of physical therapy interventions. Restricted to majors.
PHT	6285C	Physical Therapy Science II - DPT	var.	ME	PHT		Theoretical foundations and clinical practice of examination skills with emphasis on performing physical therapy tests and measures as listed in the Guide to Physical Therapist Practice. Restricted to majors.
PHT	6313	Medical Management III	1	ME	PHT	PR: PHT 5380	Seminar on the medical and surgical management; epidemiology; pathophysiology; pharmacology, and repair of common injuries to and diseases of the nervous system across the life span. Restricted to majors. Repeatable for 1 credit hour.
PHT	6341	Medical Management II	1	ME	PHT	PR: PHT 6313	Seminar on the medical and surgical management; epidemiology; pathophysiology, and pharmacology of complex multisystem disorders and movement disorders across the life span. Restricted to majors.

							Repeatable for 1 credit hour.
PHT	6391C	Foundational Science IV	2	ME	PHT		Application of the movement sciences to examination, evaluation, diagnosis, intervention, and prevention of movement dysfunction related to the musculoskeletal, cardiopulmonary, and neuromuscular systems. Restricted to majors.
PHT	6392C	Foundational Science V	1	ME	PHT		Application of the behavioral foundational sciences (sociology, psychology, human development) and biopsychosocial model to each of the roles of the physical therapist. Restricted to majors.
PHT	6521	Professional Issues IV	3	ME	PHT		Focuses on the administrative role of the physical therapist. Includes formulation of budgets, policies, procedures, reimbursement, legal concepts of risk management and malpractice, and the ethical concept of pro bono service and the APTA judicial process. Restricted to majors.
PHT	6522	Professional Issues V	2	ME	PHT		Development of a strategic plan for professional growth which reflects commitment to all roles of the Physical Therapist (administration, consultation, critical injury, education and patient/client management) and exploration of the nature of individual and cultural differences, organizational cultures, mentoring, and leadership. Restricted to majors.
PHT	6541	Pharmacology for Healthcare Professionals	v ar	ME	PHT		This course is designed to provide a basic understanding of drug absorption, distribution, metabolism, and excretion, effects on the body and side effects or toxicity.
PHT	6606	Critical Inquiry I	3	ME	PHT		Introduction to critical inquiry skills of the physical therapist with successful preparation of an in-depth literature review on a selected topic in musculoskeletal or cardiopulmonary movement disorders. Restricted to majors. Repeatable for 3 credits.
PHT	6731	Patient/Client Management IV	3	ME	PHT		Learners adapt principles of patient/client management to complex patient situations in order to identify and state movement dysfunctions and to write plans of care. Restricted to majors.
PHT	6732	Advanced Patient/Client Management II	2	ME	PHT		Learners adapt principles of patient/client management to lifestyle and socioeconomic issues in order to identify dysfunctions that can be addressed by the physical therapist. Restricted to majors.
PHT	6735C	Physical Therapy Science IV	4	ME	PHT		The role of the physical therapist in ameliorating activity limitations and participation restrictions encountered by people with physical impairments. Emphasis will be placed on the physical therapy assessment and

							intervention procedures intended to identify and minimize physical disabilities occurring secondary to traumatic, acquired or congenital amputation and disorders of the spine. Restricted to majors.
PHT	6736C	Advanced Physical Therapy Science II	2	ME	PHT		Focus on the physical therapist in ameliorating activity limitations and participation restrictions encountered by people with irreversible physical impairments. Emphasis on the physical therapy assessment and intervention procedures to identify and minimize physical disabilities occurring secondary to complex, multi-system disorders. Restricted to majors.
PHT	6823	Clinical Education II	17	ME	PHT	CR: PHT 5822	A 20 week clinical internship experience that takes place in a comprehensive center or cluster of centers. Course is S/U graded. Restricted to majors.
PHT	6841	Clinical Education I - DPT	var.	ME	PHT		Initial full-time clinical practice experience for the development of patient care skills.
PHT	6862	Longitudinal Clinical Experience I	var.	ME	PHT		Initial clinical practice experience for the development of patient care skills. Students will be supervised in one center in the fall term. The course is graded Satisfactory/Unsatisfactory.
PHT	6863	Longitudinal Clinical Experience II	var.	ME	PHT		Continuation of the initial clinical practice experience for the development of patient care skills. Students will be supervised in one center for the spring term. The course is graded Satisfactory/Unsatisfactory.
PHT	6935	Special Topics II	1-10	ME	PHT		Analysis of issues related to the education, critical inquiry, administration, and/or consultant roles of the physical therapist. Topics in this seminar may vary each semester. Restricted to majors. Not repeatable for credit.
PHT	6962	Clinical Proficiency and Problem Solving III	1	ME	PHT	PR: PHT 5961	Practicum for the synthesis of skills, knowledge, and values required for the management of individuals with neuromuscular related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.
PHT	6963	Clinical Proficiency and Problem Solving IV	1	ME	PHT	PR: PHT 6962	Practicum for the synthesis of skills, knowledge, and values management of individuals with complex movement and multisystem disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.
PHT	7151	Health Promotion and Wellness	var.	ME	PHT		Prepares students for practice as primary care providers in direct access environments with a focus on identification of health risk factors and interventions to promote wellness in individuals and populations. Restricted to

							majors.
PHT	7264C	Clinical Problem Solving I - DPT	var.	ME	PHT		Intro to clinical problem solving in physical therapy following a normative model for professional practice across the lifespan utilizing musculoskeletal, neuromuscular, cardiopulmonary, and integumentary preferred practice patterns.
PHT	7265C	Clinical Problem Solving II - DPT	var.	ME	PHT		A continuation of clinical problem solving in physical therapy following a normative model for professional practice across the lifespan utilizing musculoskeletal, neuromuscular, cardiopulmonary, and integumentary preferred practice patterns.
PHT	7328	Pediatric Physical Therapy	var.	ME	PHT		This course is designed to provide the student the opportunity for hands on physical therapy examination and intervention skill development with the pediatric patient population. Group discussion of issues impacting care of this population is included.
PHT	7401	Psychosocial Aspects of PT Practice	3	ME	PHT		Utilization of behavioral foundational sciences and the biopsychosocial model and their contribution to patient/client management and understanding organizational behavior. Restricted to majors. Repeatable for 3 credit hours.
PHT	7421	Professional Issues I - DPT	var.	ME	PHT		Focus on the consultant and educator roles of the physical therapist. Restricted to majors.
PHT	7507	Medical Spanish for Physical Therapists	var.	ME	PHT		Students will learn basic Spanish skills with an emphasis on communicating across cultures in a health care setting. The course is designed for non-speakers of Spanish as well as those with limited Spanish -speaking skills
PHT	7531	Professional Issues II - DPT	var.	ME	PHT		Focus on legal, ethical, & professional responsibility and accountability of the physical therapist. Students further develop their abilities to make legal and ethical decisions.
PHT	7607	Critical Inquiry I - DPT	var.	ME	PHT		Introduction to the critical inquiry role of the physical therapist. Course involves the successful preparation of an in-depth review of the literature and evidence related to a selected movement disorder topic.
PHT	7617	Critical Inquiry II	2	ME	PHT	PR: PHT 6606	Course involves the preparation of a patient case report related to movement disorders secondary to a neuromuscular or complex multi-system problem. Restricted to majors. Repeatable for 2 credits.
PHT	7618	Critical Inquiry III	3	ME	PHT	PR: PHT 7617	Development, implementation, and presentation of a capstone investigative project. Restricted to majors. Repeatable for 3 credits.
PHT	7626	Critical Inquiry II	var.	ME	PHT		Course involves the successful preparation of a case report of a person with a movement disorder.

							Topic must be approved by course instructor. Restricted to majors.
PHT	7817	Critical Education II	6	ME	PHT	PR: PHT 6806, PHT 6962, PHT 6963	Intermediate clinical education to develop skills in inpatient physical therapy centers. Satisfactory/Unsatisfactory grade. Restricted to majors. Repeatable for 6 credit hours.
PHT	7823	Critical Education III	12	ME	PHT	PR: PHT 6806, PHT 7817	Capstone clinical education to develop entry level competence in physical therapy practice in preparation for state licensure. Restricted to majors. Repeatable for 12 credit hours.
PHT	7842	Clinical Education II - DPT	var.	ME	PHT		8-week clinical experience that takes place in one center. Course is graded Satisfactory/Unsatisfactory.
PHT	7864	Longitudinal Clinical Experience III	var.	ME	PHT		Clinical practice experience for all components of patient client management. Students will spend the fall term in one center. The course is graded Satisfactory/Unsatisfactory.
PHT	7866	Longitudinal Clinical Experience IV	var.	ME	PHT		Clinical practice experience for all components of patient client management. Students will spend the fall term in one center and the spring term in another. The course is graded Satisfactory/Unsatisfactory.
PHT	7906	Independent Study	1-3	ME	PHT		A seminar and/or lab course for small groups of students or independent study for individual students to address areas of special interest in physical therapy. Restricted to majors. Not repeatable for credit.
PHT	7907	Physical Therapy Elective	var.	ME	PHT		A special topics course for small groups of students to address a specific area of special interest or advanced practice in physical therapy.
PHT	7936	Special Topics III	1-10	ME	PHT		Analysis of issues related to physical therapy as a component of the health care system. Topics in this seminar may vary each semester the course is offered. Restricted to majors. Not repeatable for credit.
PHT	8179	Movement Science III - DPT	var.	ME	PHT		Motion analysis of movement related disorders performed and presented by small groups. Restricted to majors.
PHT	8266	Clinical Problem Solving III - DPT	var.	ME	PHT		A culmination of clinical problem solving in physical therapy following a normative model for professional practice. Focus is on student development and presentation of a case-based educational module incorporating all aspects of professional practice.
PHT	8504	Service Learning	var.	ME	PHT		In small groups, students plan and implement a program to meet the needs of an underserved population(s). Restricted to majors.
PHT	8550	Professional Issues III - DPT	var	ME	PHT		The administrative role of the physical therapist is viewed

			.				through current issues in the profession. Students prepare a strategic plan for professional growth reflecting commitment to all 5 roles of the physical therapist & leadership responsibilities.
PHT	8628	Critical Inquiry III - DPT	var.	ME	PHT		Development, implementation, and presentation of a capstone study. Restricted to majors.
PHT	8702	Advanced Prosthetics and Orthotics	var.	ME	PHT		An advanced practice seminar in which students explore special topics in prosthetic and Orthotic devices and physical therapy management of patients/clients who use prosthetic and Orthotic devices.
PHT	8709	Anatomical Basis of Physical Therapy and Rehabilitation	var.	ME	PHT		In depth study of a selected joint complex of both the musculoskeletal system in both anatomic and clinical contexts with particular emphasis on the intricate relationship of this system to other functional entities of human body.
PHT	8843	Clinical Education III - DPT	var.	ME	PHT		Final 16-week clinical experience that takes place in an comprehensive center or cluster of centers. Course is graded Satisfactory/Unsatisfactory.
PHY	5720C	Electronics for Research	3	AS	PHY		A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital Ics, breadboarding techniques and electronics test instrumentation. Spring Semester.
PHY	5937	Selected Topics in Physics	1-4	AS	PHY	PR: Senior or advanced standing and CC.	Each topic is a course in directed study under the supervision of a faculty member.
PHY	6246	Classical Mechanics	3	AS	PHY	PR: PHY 4222 or CI. Fall Semester.	Dynamics of particles and systems of particles, Lagrange's equation, central forces, rigid body dynamics.
PHY	6346	Electromagnetic Theory I	3	AS	PHY	PR: PHY 4324 or CI.	Electrostatics, magnetostatics, potential and boundary value problems. Maxwell's equations. First semester of sequence PHY 6346, PHY 6347.
PHY	6347	Applied Electromagnetic Theory	3	AS	PHY	PR: PHY 6346 or CI.	Second semester of sequence PHY 6346, PHY 6347. Electromagnetic waves, wave guides and resonant cavities, diffraction, relativistic-particle kinematics and dynamics, plasmas and magnetohydrodynamics.
PHY	6446	Lasers and Applications	3	AS	PHY	PR: PHY 4324 and PHY 4604 or CI.	Optical modes, optical resonator theory, gain saturation, theory of laser oscillators, specific laser systems, Q-switching and mode-locking, optical waveguides.
PHY	6447	Physics of Lightwave Devices and Applications	3	AS	PHY	PR: PHY 6446 or CI.	Nonlinear optics including optical phase conjugation, second harmonic and sum frequency generation, and stimulated Raman scattering. Selected applications of lasers and nonlinear optics.
PHY	6536	Statistical Mechanics	3	AS	PHY	PR: PHY 5624 or CI.	Kinetic theory, configuration and phase space. Boltzmann theorem,

							Liouville theorem, ensemble theory, quantum statistics.
PHY	6645	Quantum Mechanics I	3	AS	PHY	PR: PHY 4604 or CI.	Hilbert space, continuous spectrum, matrix and wave mechanics, quantum dynamics, symmetries, angular momentum, perturbation methods
PHY	6646	Applied Quantum Mechanics	3	AS	PHY	PR: PHY 6645 or CI.	Approximation and perturbation methods, hydrogen fine structure, scattering, identical particles, second quantization, Dirac equation.
PHY	6753	Measurement and Instrumentation	3	AS	PHY	PR: PHY 4744 or PHY 5720 or CI.	Measurement, signals and noise; analog/digital conversion; data communication; digital signal processing. Weekly labs for LabVIEW programming, instrument control and data acquisition through RS232 and GPIB interface.
PHY	6909	Independent Study	1-19	AS	PHY	PR: CI.	Independent study in which student must have a contract with an instructor.
PHY	6911	Directed Research	1-19	AS	PHY	PR: GS.	An individual investigation of a research topic under the supervision of an instructor.
PHY	6935	Graduate Seminar	1	AS	PHY	PR: CI. All Physics graduate students are expected to enroll in this course at least once.	
PHY	6938	Selected Topics in Physics	1-10	AS	PHY	PR: CI	Each topic is a course in directed study under the supervision of a faculty member.
PHY	6940	Supervised Teaching	3	AS	PHY	PR: Dept. Approval Required.	Laboratory teaching under the direction of a Physics Department faculty member.
PHY	6971	Thesis: Master's	2-19	AS	PHY	PR: CI.	
PHY	7910	Directed Research	1-9	AS	PHY	PR: Graduate Ph.D. level.	
PHY	7980	Dissertation: Doctoral	2-9	AS	PHY	Rpt. S/U, PR: Admission to Candidacy.	
PHZ	5115	Methods of Theoretical Physics I	3	AS	PHY	PR: MAP 2302 or CI.	Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.
PHZ	5116	Methods of Theoretical Physics II	3	AS	PHY	PR: MAP 2302 or CI.	Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.
PHZ	5156C	Computational Physics I	3	AS	PHY	PR: CGS 5765 or CI.	C programming applied to real science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects selected from current research may include neurobiology, quantum magnetism, chaos, finance, materials science.
PHZ	5304	Nuclear Physics	3	AS	PHY	PR: PHY 4604 or CI.	Nuclear forces, nuclear models, nuclear structure, decay, nuclear

							reactions, and high energy physics.
PHZ	5405	Solid State Physics I	3	AS	PHY	PR: PHY 3101, MAP 2302, CI.	Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.
PHZ	6136	Physical Applications of Group Theory	3	AS	PHY	PR: CI.	Matrices, symmetry elements and point groups, reducible and irreducible representations, molecular vibrations, selection rules, rotation groups and atomic levels, molecular orbitals and electronic energies, space groups and spectra of crystals, crystal field theory and symmetry.
PHZ	6204	Atomic and Molecular Spectra I	3	AS	PHY	PR: PHY 4604 or CI.	Hydrogen atom, one electron systems, central field and vector models, perturbations, Zeeman and Stark effect, hyperfine structure, atomic structure calculations; diatomic spectra, rotational and vibration analysis, intensities, temperatures from spectra, isotope effects.
PHZ	6205	Atomic And Molecular Spectra II	3	AS	PHY	PR: PHZ 6204 or CI.	Electronic transitions in diatomic molecules, Hund's coupling schemes, electron configuration and valence, astrophysical applications, predisassociation, normal modes of polyatomic molecules, Raman and IR spectra, rotation-vibration interaction, microwave spectra, thermodynamic properties, stellar atmospheres.
PHZ	6426	Solid State Physics II	3	AS	PHY	PR: PHZ 5405 or CI.	Optical, electrical and magnetic properties of insulators, superconductivity, imperfections in solids. Second semester of sequence PHZ 5405, PHZ 6426.
POS	5094	Issues in American National and State Government	3	AS	POL		Selected topics of study in American government.
POS	5155	Issues in Urban Government and Politics	3	AS	POL		Selected issues and topics in Urban Government and politics.
POS	5159	Urban Policy Analysis	3	AS	PAD		Application of policy framework for urban government & policies. Examine forms of government and how policies such as economic development, law enforcement, community policing, neighborhood policies (with non-profit groups) can be analyzed.
POS	6045	Seminar in American Government & Politics	3	AS	POL	Sr./GS.	Advanced study of selected topics of institutions and processes of American national government and politics.
POS	6127	Issues in State Government and Politics	3	AS	POL	GS.	Advanced study of selected topics in institutions, processes, and behavior of American state governments and Florida government.
POS	6157	Seminar in Urban Government and	3	AS	POL		Analysis of literature with emphasis on urban political

		Politics					behavior, development of various theories, and propositions regarding governmental structure and the formation and implementation of public policy.
POS	6415	The American Presidency	3	AS	POL	GS.	Analysis of problems and powers of the presidency with emphasis on crisis management, staffing, legislative leadership, and decision making.
POS	6427	The Legislative Process	3	AS	POL	GS.	Analysis of formal and informal decision-making processes in legislative bodies, with emphasis on U.S. House of Representatives and U.S. Senate. Executive-legislative conflict and cooperation; input/output analysis.
POS	6455	Political Parties and Interest Groups	3	AS	POL	GS.	Analysis of statutes, functions, and characteristics of political parties and interest groups, as well as their interactions with political processes, actors, and institutions.
POS	6607	Constitutional Law	3	AS	POL	PR: GS.	Advanced study of legal, political, philosophic, and methodological problems in constitutional law.
POS	6698	Seminar in Law and Politics	3	AS	POL	PR: GS.	Advanced study of institutions and processes in the field of law and politics.
POS	6735	Foundations of Political Inquiry	3	AS	POL		Survey of philosophical, intellectual, and theoretical issues, including historical development of political science. Topics include empirical approaches, rational choice theory, and critical approaches such as pragmatics, hermeneutics, genealogy, and critical theory.
POS	6736	Political Research Methods	3	AS	POL	PR: POS 3713 or equiv.	A graduate level, introductory survey of empirical research methodology, including statistics and computer data analysis. Topics include measurement, sampling, research design, and selected bivariate analysis techniques.
POS	6909	Independent Study	1-3	AS	POL	PR: 3.0 in Political Science, CC. S/U.	Specialized independent study determined by the student's needs and interests. Needs instructor's consent.
POS	6919	Directed Research	1-19	AS	POL	PR: GR. ML. S/U.	
POS	6933	Selected Topics in Political Science	3	AS	POL		Selected topics, issues, and problems in political science.
POS	6942	Field Work in Political Science	1-3	AS	POL	PR: 3.0 in Political Science and GS.	Application of research models now employed in governmental agencies, including development of a structured research proposal.
POS	6971	Thesis: Master's	2-19	AS	POL	PR: CC. S/U.	
POT	6007	Seminar in Political Theory	3	AS	POL	PR: GS.	Provides students who are capable of independent work with the opportunity to explore advanced problems of political theory.
PPE	6058	Personality	3	AS	PSY		Survey of research and theories of personality, including its relationship to the development of

							normal and abnormal behavior.
PSB	6056	Physiological Psychology	3	AS	PSY	PR: Admission to graduate program in Psychology or CI.	Survey of data and research methods in Behavioral Neuroscience. Basic learning theories and CNS function in behavior, and disorders associated with CNS dysfunction will be covered.
PSY	6217	Research Methods and Measurement	2-4	AS	PSY	PR: CI.	Courses in research strategies, design and analysis, and measurement theory in psychological experimentation. Inferential statistics, anova, correlation methods, and interpretation.
PSY	6605C	History and Systems of Psychology	2	AS	PSY	PR: Admission to graduate program in Psychology or CI.	A review of the history of modern psychology with emphasis on the major systematic approaches that have influenced the current structure of psychology. Persisting polarities and common underlying issues are studied in various historical contexts.
PSY	6907	Independent Study	1-19	AS	PSY	PR: Majors only. S/U.	Independent study in which student must have a contract with an instructor.
PSY	6917	Directed Research	1-19	AS	PSY	PR: GR. ML, CC. S/U.	
PSY	6946	Practicum and Internship in Clinical Psychology	1-15	AS	PSY	PR: CI.	Supervised training in community and university settings in the application of Psychology.
PSY	6947	Graduate Instruction Methods	1-3	AS	PSY	PR: CI. S/U.	Special course to be used primarily for the training of teaching assistants.
PSY	6971	Thesis: Master's	2-19	AS	PSY	PR: CC. S/U	
PSY	7908	Directed Readings in Psychology	1-15	AS	PSY	PR: CI.	An advanced reading program of selected topics in Psychology under the supervision of a Psychology faculty member. The reading program is designed to meet the individual requirements and interest of graduate students in Psychology, with selected topics chosen by the student in close collaboration with a faculty member.
PSY	7918	Directed Research	1-19	AS	PSY	PR: GR. Ph.D. level. S/U.	
PSY	7931	Seminar in Ethics and Professional Problems	2	AS	PSY	PR: Second year in Ph.D. program in Psychology or CI.	Ethical issues and professional problems in the practice of psychology.
PSY	7980	Dissertation: Doctoral	2-19	AS	PSY	PR: Admission to Candidacy. S/U.	
PUP	5607	Public Policy and Health Care	3	AS	POL		The study of health care policy as it relates to the policy process in the American setting.
PUP	6007	Seminar in Public Policy	3	AS	POL		Examination of public policy from a theoretical and practical decision. Analysis will be presented in terms of their usefulness in designing policy.
PUR	5505	Introduction to Strategic Communication	3	AS	COM		The course is designed to act as a "bridge" between undergraduate and graduate public relations and

		Theory and Practice					advertising education, and between professional communication practices and strategic communication scholarship.
PUR	6603	Strategic Communication Campaigns	3	AS	COM	PR: CC.	A problem-solving approach emphasizing the environmental context of strategic communication problems, applied to strategic communication management in organizational settings. Nonmajors with prerequiaites allowed. Not repeatable for credit.
PUR	6607	Public Relations Management	3	AS	COM	PR: GS in Mass Communications or CI.	Explores the wide body of social science theory that is the foundation of a successful public relations program in organization. Focuses on the use of public relations as strategic planning function concerned with building long-term beneficial relationships between the organization and its external and internal publics.
QMB	6305	Managerial Decision Analysis	2	BA	MBA		A study of the general concepts of interval estimation, hypothesis testing, correlation and multiple regression with an emphasis on applications, concepts and interpretation of results.
QMB	6365	Applied Business Forecasting	3	BA	QMB	PR: QMB 6305 or equiv., CC.	Logic and application of quantitative forecasting, techniques to problems in business.
QMB	6375	Applied Linear Statistical Models	3	BA	QMB	PR: QMB 6305 or equiv., CC.	A study of multivariate data analysis techniques and their applications to problems and systems in business.
QMB	6603	Operations Management and Quality Enhancement	2	BA	MBA	PR: GS and college algebra.	Principles of managing manufacturing and service organizations. Topics include: competitive use of operations, comprehensive manufacturing strategies, production system design, material requirements planning, JIT systems, quality management, statistical process control, and project management.
QMB	7565	Introduction to Research Methods	3	BA	QMB	PR: CC.	A course in research strategies, design, analysis, and measurement for business research.
QMB	7566	Applied Multivariate Statistical Methods	3	BA	QMB	PR: CC.	A course in research analysis and measurement focusing on multivariate statistical analysis techniques.
RCS	5035	Rehabilitation Counseling: Concepts and Applications	3	AS	REH	PR: CC.	Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management and related services for Americans with disabilities.
RCS	5080	Medical Aspects of Disability	3	AS	REH	PR: RCS 5780 or CP.	A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health

							programming.
RCS	5450	Substance Abuse I	3	AS	REH	PR: CI.	An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment.
RCS	5780	Legal, Ethical, Professional Standards and Issues in Counseling	3	AS	REH	PR: CC.	An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.
RCS	5905	Directed Studies	1-4	AS	REH	PR: CI.	Supervised rehabilitation studies under the direction of a faculty member.
RCS	6220	Individual Evaluation and Assessment	3	AS	REH	PR: RCS 5080, RCS 5780, RCS 6440.	Examines assessment procedures utilized in rehabilitation and mental health counseling settings and critical issues in the evaluation of people who are mentally and physically disabled.
RCS	6301	Career and Lifestyle Assessment	3	AS	REH	PR: RCS 5080, RCS 5035, MHS 5020,RCS6470 RCS 6440.	Career development, lifestyle, and related factors with special emphasis on the needs of individuals with disabilities. Includes job placement and a survey of work requirements in different occupations and how these relate to functional limitations.
RCS	6407	Counseling Theories and Practice	3	AS	REH	PR: MHS 5020, RCS 5035, RCS 5080, RCS 6440.	An extension and intensification of the rehabilitation and mental health counseling skills developed in RCS 5404. Includes the study of counseling theories and their contribution to successful counseling and rehabilitation practice.
RCS	6408	Diagnosis and Treatment of Psychopathology	3	AS	REH	PR: MHS 5020, RCS 6440, RCS 5080, RCS 5035. Majors Only.	Psychopathology as applied to psychotherapy and case management in mental health, addictions, and other rehabilitation settings.
RCS	6440	Social and Cultural Foundations of Counseling	3	AS	REH	PR: RCS 5780 or CC.	Counseling issues in a multicultural and diverse society. Special emphasis on psychosocial adjustment and counseling for individuals with physical and mental disabilities.
RCS	6459	Substance Abuse II	3	AS	REH	PR: RCS 5450 and CI.	An extension of RCS 5450 with emphasis on family problems and approaches to counseling and working with alcohol and other substance abuse.
RCS	6510	Group Theories and Practice	3	AS	REH	PR: RCS 5035, RCS 5080, MHS 5020, RCS 6440.	Theoretical and empirical issues in group counseling are examined in the context of an ongoing group. Emphasis is on application to rehabilitation and mental health counseling.
RCS	6740	Research and Program Evaluation	3	AS	REH	PR: RCS 5780.	Training in the evaluation and utilization of available research studies and the development of research skills. An individual research project is required.
RCS	6803	Practicum in	3	AS	REH	PR: RCS 5080, MHS	Field work experience in

		Counseling				5020, RCS 6440, RCS 5035.	rehabilitation mental health counseling.
RCS	6825	Internship	3	AS	REH	PR: CP, All required courses in M.A. program., CC. S/U.	Student placement in an approved intern setting for a minimum of 600 hours of supervised experience.
RCS	6906	Independent Study	1-19	AS	REH	PR: CC. S/U.	Independent study where the student must have a contract with a faculty member.
RCS	6930	Seminar in Rehabilitation Counseling	1-4	AS	REH	PR: CI.	Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor.
RCS	6970	Thesis: Master's	2-19	AS	REH	PR: CC. S/U.	
RED	6116	Current Trends in Elementary Reading Instruction	3	ED	EDE	PR: RED 4310 or equiv. Not to be used as a first course in reading.	Approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research.
RED	6247	District and School Level Supervision in Literacy	3	ED	EDR	PR: LAE 6315, RED 6544, RED 6545, RED 6747.	District and School Level Supervision in Literacy familiarizes students with issues related to the organization and monitoring of elementary and secondary reading programs at the school and district levels, with an emphasis on the former.
RED	6365	Reading In Secondary And Higher Education	3	ED	EDR		Designed for student and inservice teachers with appropriate B.A. degrees. Content covers secondary, community college, and university levels. Organization permits student to work on applications to individual levels and disciplines. Research paper required.
RED	6449	Literacy and Technology	3	ED	EDR		Literacy and Technology focuses on technology as a tool for literacy instruction. Throughout the course, students will preview and evaluate literacy-related software and websites, critique research related to literacy and technology, and design, develop, and present software programs for literacy learning and instruction.
RED	6514	The Reading Process in the Elementary Grades	3	ED	EDE		Prepares students in the foundations of literacy including learning principles, teaching and assessment strategies for providing literacy instruction to emergent, novice, transitional, and accomplished readers and writers in the elementary grades.
RED	6516	Corrective Reading in the Classroom	3	ED	EDR	PR: RED 4310 or CI.	Use of diagnostic and prescriptive procedures with individual and group reading instruction.
RED	6540	Assessment in Literacy	3	ED	EDR	PR: LAE 6315, RED 6544, RED 6545, RED 6747.	RED 6540 is a three credit graduate level course which focuses on methods of analysis of children's literacy and strategies for promoting language, reading and writing development. Authentic literacy assessment in classroom and other instructional environments, informal assessment and diagnosis, and standardized tests will be utilized in evaluation of the multiple factors

							in reading, writing and language process and problems.
RED	6544	Cognition, Comprehension, and Content Area Reading: Remediation of Reading	3	ED	EDR		In-depth study of reading comprehension. Emphasis is placed on discussion of the concepts of cognition and learning, metacognition and comprehension of text included in the reading process. Process in the reading/writing, connection, specific reading strategies, and procedures for comprehension of text in the content areas are presented.
RED	6545	Issues in Vocabulary and Word Study	3	ED	EDR		The purpose of this course is to provide students with an understanding of current theory and research about reading and writing vocabulary instruction and the interactive causes of literacy disabilities.
RED	6747	The History and Foundations of Reading Models	3	ED	EDR	PR: EDF 6432, EDF 6481, or CI.	History and Models of Reading introduces graduate students to the historical background of professional approaches to literacy as well as the current models that guide literacy research, theory and instruction. With a focus on historical antecendents, students in the course learn the connections between current research and practice, and former models and their related instructional practices. In a larger framework, the course connects students with the relationships between reading practices and the larger social movements that contextualize them.
RED	6786	Teacher Research Methods in Reading	3	ED	EDR	PR: EDF 6481, RED 6747, RED 6545, RED 6544, RED 6247, RED 6449.	Teacher Research Methods in Reading familiarizes students with the application of classroom action research methodologies in literacy. Course content is directed toward developing understandings of the need for teacher research and a mindset for becoming a teacher researcher. Students will develop a knowledge base in quantitative, qualitative, case study, and portfolio-based research methodologies for teachers.
RED	6846	Practicum in Reading	3	ED	EDR	PR: RED 6747, RED 6545, RED 6544, RED 6540, or CI.	Practicum in Reading is a graduate course covering topics and issues relevant to assessment and remediation of reading problems in school-aged children. It is an application course, where students work at a school site with children who are experiencing reading problems.
RED	6906	Independent Study: Reading Education	1-6	ED	EDR	S/U.	Independent study in which students must have a contract with an instructor.
RED	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDR		
RED	7048	Reading as a Symbolic Process	3	ED	EDR	PR: RED 6116 or RED 6365, GS or	Seminar designed to develop critical thinking about the reading

						DPR.	process and reading acquisition.
RED	7745	Research in Reading Instruction	3	ED	EDR	PR: RED 6116 or RED 6365, GS or DPR.	Seminar examining in depth the current research on instruction in the field of reading education.
RED	7910	Directed Research in Reading/Language Arts	1-19	ED	EDR	PR: Advanced graduate standing.	Independent student-faculty research course.
RED	7938	Advanced Graduate Seminar	1-3	ED	EDR	PR: Enrollment in at least 3 hours is required for each doctoral student.	Discussion and evaluation of current issues and research in Reading/Language Arts and related fields. Rpt. To 6 hours.
RED	7980	Dissertation: Doctoral	2-30	ED	EDR	Admission to Candidacy.	
REL	6035	Theory and Method in Religious Studies	4	AS	REL	PR: GS in the Department of Religious Studies.	An introduction to and research methods used in Religious Studies proper and those of other disciplines. In the former are to be found comparative religion, religious hermeneutics, and theological analysis. Among the latter are included comparative literature, literary criticism, sociology, philosophy, and historiography.
REL	6126	Religion in America	3	AS	REL		Studies in the history of native American religions, of the rise of American denominations, churches, and sects, of the relationship between church and state, and religious thought in America. Open to non-majors.
REL	6143	Religion, Culture, and Society	3	AS	REL		Scholarly study of religion in its complex relationship of culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions.
REL	6175	Religion, Ethics and Public Policy	3	AS	REL		This seminar will explore the relation between religion, ethics, the social sciences, and social policy. Problems of ideological conflict and ethical relativism will be examined, as well as possible religious and theoretical foundations for a normative ethics of social change.
REL	6178	Comparative Religious Ethics	3	AS	REL		This seminar explores key issues and the diverse methodological approaches to the comparative study of religious ethics, including history of religions, social scientific, philosophical and theological approaches.
REL	6182	Faith and Reason in Western Religious Ethics	3	AS	REL		A seminar course examining the history of Western thinking about morality and its relation to religion. Concepts including faith, reason, right and wrong, values, virtue, duty, obligation, rights, and justice are explored in light of theories about the nature of morality.
REL	6195	Religion and Modernization	3	AS	REL		This course will explore the unique characteristics of modern and post-modern civilization, with special attention given to the secularizing effects of modern

							science, technology, economics, and politics on the world's religions and their various responses to these factors.
REL	6285	Studies in Biblical Archaeology	3	AS	REL		A study of various problems in Biblical Archaeology including excavation techniques, principles of interpretation, problems in correlation of the text of the Bible and specific finds, chronology, reconstruction of culture from archaeological evidence, and others.
REL	6327	Seminar: Ancient Religions and Literatures	3	AS	REL		A research seminar in some aspect of ancient religion and literature: Hebrew Bible, New Testament, Mithraism, Mystic Religions, Pseudepigrapha, and others taught in translation.
REL	6328	Religion and Culture of the West	3	AS	REL		Examines some of the most important religious literature of the Western world -- Jewish, Christian, and Islamic -- attempting to understand each classical expression within its own historical and cultural context.
REL	6447	Liberation Theology	3	AS	REL		A critical examination of Third World, Black American, and Feminist Liberation Theologies of the Christian tradition.
REL	6617	The History of Judaism: The Formative Age	3	AS	REL	PR: REL 3602	The history of how the Judaism that predominated from the first century to the present took shape in the first six centuries AD.
REL	6906	Independent Study	1-3	AS	REL	PR: GS, ML	Independent study in which the student must have a contract with the instructor.
REL	6911	Directed Research	1-4	AS	REL	PR: GS, ML. Majors only.	Individual guidance in concentrated reading in a carefully delimited area of religious studies research skills.
REL	6938	Special Topics in Religious Studies	1-4	AS	REL	PR: GS.	Open to non-majors. Variable titles offered on topics of special interest.
REL	6940	Graduate Instruction Methods	1-4	AS	REL	Var. S/U.	Offered primarily for the supervision of Graduate Teaching Assistants.
REL	6971	Thesis: Master's	2-19	AS	REL	PR: GR. ML, majors only. S/U	
SCE	5337	Methods of Secondary Science Education	3	ED	EDN		Course concentrates on goals, subject matterteaching strategies for high school curricula; assessment and using data to improve student achievement; and development pedagogical content knowledge as it pertains to the teaching and learning of science.
SCE	5564	Reading and Communication in Science Education	3	ED	EDN		This course prepares secondary science teachers to teach literacy practices in science. It includes methods for selecting appropriate reading and language approaches. Communication in science and functional aspects of scientific literacy are examined.
SCE	5937	Selected Topics in Science Education	1-4	ED	EDN		
SCE	6115	Trends in Science	3	ED	EDE	PR: SCE 4310	Topics in the biological and

		Instruction					physical sciences appropriate for teaching in elementary school programs. Analysis of modern curriculum materials used in presenting science as a process of inquiry.
SCE	6416	Teaching Secondary School Biology	3	ED	EDN	PR: At least 12 hours in science.	Effective use and production of instructional materials in the biological sciences. Interrelation of philosophy, materials, and classroom practices.
SCE	6456	Teaching Secondary School Physical and Earth Science	3	ED	EDN	PR: At least 12 hours in science.	Effective use and production of instructional materials in the physical and earth sciences. Interrelation of philosophy, materials, and classroom practices.
SCE	6634	Current Trends in Secondary Science Education	3	ED	EDN	PR: Bachelor's degree with major in science area, and certification in secondary science.	Curricular patterns and instructional practices in secondary science.
SCE	6645	Mathematics and Science Education Policy, Change, and School Improvement	3	ED	EDN	PR: EDF 7655 or Advanced GS. May also be taken as MAE 6738. DPR.	Knowledge, skills, and strategies are developed to become a facilitator of change for mathematics and science school improvement. Original change initiatives are designed and implemented.
SCE	6736	Research Implications for Teaching Pre-College Mathematics and Science	3	ED	EDN		Generates new perspectives on research by comparing research techniques in mathematics, natural sciences, and mathematics and science education, and by matching mathematics, science and technology questions to appropriate research paradigms.
SCE	6865	Technology: Solving Societal Problems	3	ED	EDN	PR: Advanced GS or DPR. May also be taken as MAE 6737.	Specific examples of mathematics/science/technology/society interaction are provided for integration into school-based mathematics and natural science courses.
SCE	6866	Understanding Mathematics, Science, and Technology: Human Enterprises	3	ED	EDN	PR: Advanced GS or DPR. May also be taken as MAE 6735.	Science, mathematics, and technology are presented as one multifaceted, dynamic, human-made enterprise responding to the human search for an understanding of the realities of the world. Different "Ways of Knowing" are compared.
SCE	6906	Independent Study in Science Education	1-6	ED	EDN		Independent Study in which students must have a contract with the instructor. Rpt. S/U
SCE	6947	Internship	6	ED	EDN	PR: CI.	Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)
SCE	7910	Directed Research in Science Education	1-19	ED	EDN	PR: CI.	This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty

							member. S/U.
SCE	7980	Dissertation	2-30	ED	EDN	PR: Admission to Candidacy.	
SDS	6042	Introduction of Student Affairs	3	ED	EDG		Provides students with knowledge of the history, philosophy, organization and structure of Student Affairs, Student Affairs functions and professional competencies, and legal and ethical issues.
SDS	6050	Comparative Guidance and Counseling	3	ED	EDG	PR: DPR.	Study of guidance theories and practices in selected foreign countries as compared with the American guidance model. Evaluation of foreign guidance through critical analysis of primary sources. For example: guidance philosophy and practice in countries of the Soviet Bloc, Western Europe, and Latin America.
SDS	6411	Introduction to Student Personnel Work in Higher Education	2	ED	EDG	PR: DPR.	Study of student personnel services in institutions of higher education. Identification of the needs of students and of the ways to respond to meet these needs. Survey of service units on a campus in terms of structure, organization, funding, etc.
SDS	6501	Group Theory and Practicum: Children	4	ED	EDG	PR: SDS 6411. S/U.	Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling in the elementary schools. Skill building through supervised practicum in leading groups of elementary school children.
SDS	6621	Financial Aid Administration	2	ED	EDG	PR: Acceptance to College Student Affairs Program or CI.	The purpose of this course is to provide an overview of the history, fundamental concepts, and organization of financial aid administration. The role of financial aid in enrollment management will be addressed.
SDS	6624	Ecology of Campus Life	3	ED	EDF	PR: GS	Provides students with an understanding of the changing demographics, environmental and developmental issues facing college students.
SDS	6641	Student Affairs Auxilliary Functions	3	ED	EDF	PR: Acceptance to Student Affairs Administration Doctoral Program & SDS 6042 or CI	Review of major auxlliary functions in Student Affairs. Includes strategic and operational issues in planning for and operating auxiliary facilities and technological innovations.
SDS	6645	Student Development Theory	3	ED	EDF		An in-depth study of student development theories including those in the areas of cognitive, psychosocial and typology theories. Students will examine theoretical perspectives and learn how to apply them in practical situations encountered in higher education settings.
SDS	6701	Issues in Diversity	2	ED	EDF	PR: Admission to CSA or CI graduate Program	Adresses individual and organizational issues of multiculturalism and diversity in higher education.

SDS	6801	Practicum in Counseling Children	4	ED	EDG	S/U.	Supervised counseling experiences for integration of knowledge and skills gained in didactic study. Focus is on working with elementary age children, parent and teachers.
SDS	6820	Internship in School Counseling	6 or 3	ED	EDG	PR: All required MHS courses. S/U.	Field experience involving one semester of full-time participation or two semesters of part-time participation in all guidance related activities in an elementary or secondary school; classroom guidance; individual and group counseling; assessment/evaluation; staffing; record keeping; etc.
SDS	7640	Student Affairs Administration	4	ED	EDF	PR: Acceptance to Student Affairs Administration Doctoral Program & SDS 6042 or CI.	Leadership, management and organizational models, perspectives and issues in administration of Student Affairs will be studied.
SDS	7642	Advanced Seminar in Student Affairs	1-4	ED	EDF	PR: Acceptance to Student Affairs Administration Doctoral Program or CI	This seminar will nurture students' creativity and enhance their appreciation for scholarly academic work and effective administrative practice in Student Affairs. Issues and trends in Student Affairs will also be studied.
SDS	7643	Advanced Student Development Theories	4	ED	EDF	PR: SDS 6645 or equivalent and acceptance to Student Affairs Administration Doctoral Program or CI.	Contemporary theories of college student development will be examined in the categories of psychosocial, cognitive-structural, and typology. Research, case analysis, and assessment instruments will be studied in translating theoretical models into programmatic interventions in Student Affairs.
SDS	7644	Enrollment Management	4	ED	EDF	PR: Acceptance to Student Affairs Administration Doctoral Program or CI	Introduction to and overview of a multi-faceted process of enrollment management in higher education. The breadth of theory, models, and principles that contribute to the field of enrollment management will be explored.
SDS	7830	Advanced Internship in Counselor Education	2-8	ED	EDG	S/U.	Supervised field experiences in an approved agency, educational institution, or industrial setting: counseling, consulting, supervision, applied research, administration, and evaluation of counseling/guidance services.
SDS	7945	Advanced Internship in Student Affairs Administration	1-6	ED	EDF	PR: Acceptance to Student Affairs Administration Doctoral Program and completion of 25 hours or consent of Program Director	Supervised field experiences in an approved functional area of Student Affairs in an institution of higher education that will involve administrative functions, applied research and program evaluation.
SDS	7980	Dissertation	2-24	ED	EDF	PR: Admitted to Candidacy	
SED	6943	Graduate Instruction Methods	1-4	AS	SPE	S/U only.	Special course to be used primarily for the training of teaching assistants. Var. Rpt. To a total of 4 credits.
SLA	7910	Directed Research in Second Language Acquisition/	1-6	ED	EDI	PR: CI.	This course permits a doctoral student to conduct advanced research and to pursue specific

		Instructional Technology					areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.
SLA	7911	Second Language Acquisition Research Laboratory	1-4	ED	EDI		This course, offered every semester, provides students with a variety of research tools and directed research experiences that eventually lead to production of publishable materials. Classes are conducted as seminars with instructor and students sharing leadership role. S/U
SLA	7938	Advanced Seminar in Second Language Acquisition	3	ED	EDI		This doctoral level seminar examines in depth the theory and research in the field of Second Language Acquisition. It builds upon the information and concepts presented in introductory SLA theory courses allowing students to more deeply and carefully explore selected topics.
SLA	7980	Dissertation	2-18	ED	EDX	PR: Admission to Candidacy.	
SOP	6068	Personality and Social Psychology	3	AS	PSY	PR: Bachelors Degree in Psychology or related discipline.	This course is a survey of modern personlity and social psychology. It will examine how personal attributes and social situations influence human behavior. Major contemporary theories of how personality and social variables individually and collectively affect human feelings, thoughts and actions will be presented.
SOP	7609	Graduate Seminar in Social-Organizational Psychology	1-3	AS	PSY	PR: CI.	Seminars on topics, such as social psychology, job stress, and decision making.
SOW	5930C	Selected Topics in Social Work	1-4	AS	SOK	PR: CC.	Restricted to Social Work majors, both graduate and undergraduate; other by School permission. Course is taken as an elective. Various title course will selectively expand specific social work content areas.
SOW	6105	Foundations in Human Behavior	3	AS	SOK	PR: CC.	Introduces a systems perspective on understanding the relationships inherent in human growth and development. Special emphasis is placed on issues involving minorities, women, the disabled, various family forms, and sexual preference.
SOW	6114	Individual Growth and Development Theory	3	AS	SOK	PR: CC.	This course presents various theoretical perspectives in individual growth and development commonly used in clinical practice with individuals, families, and groups. Ethnic, cultural, and lifestyle differences in normative development will be addressed, as will the influence of poverty, resource deprivation, sexual stereotyping, and illness/disability on social functioning.
SOW	6124	Theoretical Perspectives on Mental Dysfunctioning	3	AS	SOK	PR: CC. Majors only.	This third course in the behavior sequence focuses on mental and emotional disorders. Content includes broad classifications of

							mental and behavioral disorders and their biopsychological disorders and implications of social work practice in dealing with these disorders.
SOW	6126	Theoretical Perspectives on Physical Dysfunctioning	2	AS	SOK	PR: CC. Majors only.	this fourth course in the behavior sequence focuses on physical disorders and implications of social work practice in the area of long-term protracted chronic illnesses and the ensuing psychosocial disabilities.
SOW	6235	Foundations of Social Welfare Policy	3	AS	SOK	PR: CC.	Examines historical antecedents of social welfare as an institution and current state of social welfare programs in America. Emphasis is placed on understanding social, economic, and political forces that shape policies and programs.
SOW	6236	Social Welfare Policy Analysis and Design	3	AS	SOK	PR: CC.	Presents various methods of policy analysis with emphasis on distinctions among legislative, administrative, and judicial policy. Examines roles and responsibilities of the professional practitioner in the policy process.
SOW	6305	Fundamentals of Social Work Practice	3	AS	SOK	PR: CC.	Describes full range of social work interventions, from micro to macro. Historical development of practice methods and survey of current techniques.
SOW	6342	Individual, Family and Group Treatment I	3	AS	SOK	PR: CC.	Application of clinical practice to work with individuals. Psychosocial model is emphasized. Professional laboratory develops skills in practice.
SOW	6348	Clinical Practice Perspectives on Race and Culture	3	AS	SOK	PR: CC.	Theories for clinical practice, with emphasis on the psychosocial model. Explores basic skills for clinical practice.
SOW	6362	Individual, Family and Group Treatment II	4	AS	SOK	PR: CC.	Emphasizes selection of techniques in the psychosocial model of treatment. Primary focus on family, couple, and parent-child problems. Course includes skill practice lab sessions.
SOW	6368	Individual, Family and Group Treatment III	3	AS	SOK	PR: CC.	Focus on psychosocial model of group treatment. Comparison with individual and family modality.
SOW	6375	Macro Practice Seminar	3	AS	SOK	PR: CC, SOW 6426, SOW 6368, SOW 6535.	Studies facets of organizational environment in which clinical practice takes place; develops skills in various macro practice functions of the agency, such as supervision, program operations, and interagency relations.
SOW	6405	Foundations of Social Work Research and Statistics	3	AS	SOK		This is the first of four research methods courses intended to introduce students to the various methods, designs, measurements, and statistical techniques in social work research.
SOW	6425	Clinical Research	2	AS	SOK		This is the second in a series of four required research courses. It focuses on the design and implementation of evaluation studies in social work.
SOW	6426	Field Research I	1	AS	SOK	GS in Social Work only.	This is the third in a series of four research courses. It provides the

							structure for supervision of graduate research projects.
SOW	6427	Field Research II	1	AS	SOK	GS in Social Work only.	This is the fourth and final research course. It provides the mechanism for supervision of the graduate research project.
SOW	6438	Evaluation of Clinical Practice in Diverse Setting	3	AS	SOK	PR: Must be admitted to the graduate Masters of Social Work program. This course is restricted to majors only. CR: Undergraduate degree.	Course builds on foundation content of SOW 6405. Program evaluation, single subject/system design, and statistical and qualitative concepts are discussed in order to facilitate the use of empirical and evidence based interventions in social work practice.
SOW	6534	Field Instruction I	3	AS	SOK	PR: CC. S/U.	Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 3-hour practice seminar.
SOW	6535	Field Instruction II	6	AS	SOK	PR: CC. S/U.	Supervised field instruction in a social service agency, consisting of 32 hours per week, plus a 2-hour practice seminar.
SOW	6536	Field Instruction III	4	AS	SOK	PR: CC. S/U.	Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 2-hour practice seminar. Includes integrative paper or exam.
SOW	6553	Field Instruction Sequence IA: Part-Time	2	AS	SOK	PR: SOW 6114, SOW 6348. CR: SOW 6124.	This is the first of a series of seven field instruction courses designed to provide students with opportunities to develop beginning clinical social work competency in applying knowledge to practice situations.
SOW	6554	Field Instruction Sequence IB: Part-Time	1	AS	SOK	PR: SOW 6553. S/U.	This course is the second of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor.
SOW	6555	Field Instruction Sequence IIA: Part-Time	2	AS	SOK	PR: SOW 6554.	This course is the third of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.
SOW	6556	Field Instruction Sequence IIB: Part-Time	2	AS	SOK	PR: SOW 6555.	This course is the fourth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.
SOW	6557	Field Instruction Sequence IIC: Part-Time	2	AS	SOK	PR: SOW 6556.	This course is the fifth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.
SOW	6558	Field Instruction Sequence IIIA: Part-Time	2	AS	SOK	PR: SOW 6557.	This course is the sixth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice

							seminar taught by a University-based instructor.
SOW	6559	Field Instruction Sequence IIIB: Part-Time	2	AS	SOK	PR: SOW 6558.	This course is the last of seven sequential courses. Each consists of 10-15 hours per week of agency field learning taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.
SOW	6900	Independent Study	1-3	AS	SOK	PR: Admission to MSW program, CC.	A reading program in selected topics under supervision of a faculty member. A formal contract must be approved by School Director.
SOW	6931	Selected Topics in Social Work	1-4	AS	SOK	PR: CC. Restricted to MSW students; others by School permission.	
SOW	7417	Quantitative Methods in Social Work Research	3	AS	SOK	PR: Must be admitted to the graduate Ph.D. social work program. This course is restricted to majors only. CR: MSW.	This course provides the student with a broad overview of Quantitative Methods of use to those during research in Social Work. It also serves as a review of basic quantitative methods for the Advanced Statistics course offered later in the program.
SOW	7490	Foundations of Social Work Research Methods	3	AS	SOK	PR: Must be admitted to the graduate Ph.D. social work program. This course is restricted to majors only. CR: MSW.	This is a doctoral level course designed to prepare students on the role of research in the profession. This course will focus primarily on understanding and applying basic research methods within a social work context.
SOW	7491	Theoretical Perspectives in Social Work Research	3	AS	SOK	PR: Must be admitted to the graduate Ph.D. social work program. This course is restricted to majors only. CR: MSW.	Systems theory will be presented as a theoretical base for developing testable hypotheses to produce empirical knowledge for the social work profession. Students will demonstrate the ability to conceptualize research topics in terms of existing theory.
SOW	7496	Qualitative Research Methods in Social Work	3	AS	SOK	PR: Must be admitted to the graduate Ph.D. social work program. This course is restricted to majors only. CR: MSW.	The course will assist the doctoral student to better understand and become equipped to fulfill a role as social work researcher. The course will consider the theoretical, scientific, and political issues related to qualitative research.
SOW	7497	Advanced Statistics in Social Work Research	3	AS	SOK	PR: Must be admitted to the graduate Ph.D. social work program. This course is restricted to majors only. SOW 6405 or equivalent. CR: MSW.	This course provides students a detailed and practical understanding of Adv. Statistical techniques that are of use to Social Work Academicians, Administrators, and Researchers as they conduct critical research into policy, practice, and social issues.
SPA	5120	Psychoacoustics	3	AS	CSD		Relationship between physical auditory stimuli and psychological response. Human perception of intensity, loudness, frequency, and pitch. Impact of cochlear hearing loss and age on auditory perception. Measurement of auditory perception.
SPA	5132	Instrumentation	3	AS	CSD	PR: SPA 5120, SPA 6930, SPA 5506.	Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation,

							filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.
SPA	5133C	Speech Science Instrumentation	3	AS	CSD	PR: DPR or SPA 3011 or equivalent.	Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.
SPA	5153	Quantitative Problem Solving in Speech Pathology and Audiology	2	AS	CSD		Fundamental mathematical and statistical concepts; meaningful, practical, and interesting presentation. Students get a solid foundation in the mathematical and statistical concepts in CSD and apply those concepts to solve practical or clinical problems.
SPA	5204	Advanced Clinical Phonology	3	AS	CSD		The principles of generative phonology will be applied to the assessment and treatment of phonological disorders. Emphasis is placed on making a child's phonology more functional for communication purposes.
SPA	5303	Auditory Anatomy and Physiology	3	AS	CSD		Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audioogic measurement paradigms.
SPA	5312	Peripheral and Central Auditory Tests	4	AS	CSD	PR: DPR.	The study of behavioral and electro physiologic clinical tests designed to assess the functions of the peripheral and the central auditory system. Tests that incorporate nonspeech stimuli and those that utilize speech stimuli will be included.
SPA	5328	Rehabilitative Audiology for Adults	3	AS	CSD	PR: DPR.	Assess and manage persons with hearing loss. Effects of hearing impairment, assessment issues, and appropriate intervention strategies. Prosthetic intervention, perceptual intervention, communication strategies intervention, and counseling issues.
SPA	5403	Language-Learning in the School-Age Years	3	AS	CSD	PR: SPA 4201 and DPR.	Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.
SPA	5506	Speech-Language Pathology and Audiology Practicum	1-8	AS	CSD	PR: DPR.	Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.
SPA	5552	Diagnostic Principles and Practices	3	AS	CSD	PR: Admission to the graduate program or DPR.	The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.
SPA	6102	Neuroanatomy for Speech and Hearing	3	AS	CSD	PR: SPA 3101.	Neuroanatomical and neurophysiological principles, structures and functions that

							subserve speech, hearing, language, and cognition are studied. A case-based approach illustrates the behavioral manifestations of neuropathologies. Majors only.
SPA	6106	Neurological Correlates of Language	3	AS	CSD	PR: DPR.	Review of the anatomy and physiology of the nervous system. Discuss neurological correlates of receptive and expressive language in verbal and non-verbal transmission and feedback.
SPA	6232	Neuromotor Communication Disorders	3	AS	CSD	PR: DPR.	A study of the medical, physical, occupational, speech, language, and hearing problems of the neuro-motorically impaired client. Therapy techniques are reviewed and evaluated.
SPA	6245	Craniofacial Communication Disorders	3	AS	CSD	PR: DPR.	An in-depth study of speech, language, and hearing problems associated with cleft lip and cleft palate and other craniofacial dysmorphologies. Consideration is given to the multidisciplinary approach to therapy and rehabilitation.
SPA	6305	Pediatric Audiology	3	AS	CSD	PR: SPA 5506.	Etiologies and manifestations of hearing loss within a pediatric population. Survey of procedures used in early identification and quantified measurement of hearing loss in young and non-communicative children.
SPA	6311	Medical Audiology	3	AS	CSD	PR: SPA 5120, Advanced Hearing Science, Clinic Lab I.	Anatomy & patho-physiology of the auditory system, medical genetics, congenital & acquired ear diseases, disorders of balance, & tinnitus. These areas will be related to audiology test results; diagnostic imaging, medical & surgical treatments.
SPA	6314	Electrophysiology	3	AS	CSD	PR: SPA 5303 and SPA 5312 or DPR.	This course focuses on the auditory brainstem response (ABR) as an essential diagnostic and screening tool. The course follows a combined lecture/laboratory mode with weekly class meetings and weekly laboratory exercise.
SPA	6316	Vestibular Evaluation and Treatment	3	AS	CSD	PR: SPA 5303 and SPA 5312 or DPR.	Principles and clinical practices of assessing the peripheral and central components of the human vestibular system using electrical recordings of induced and spontaneous nystagmus.
SPA	6324	Aural Rehabilitation: Children	3	AS	CSD	PR: DPR.	Provide information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training, and language for hearing impaired.
SPA	6326	Curriculum Procedures and Materials for the Hearing Impaired	3	AS	CSD	PR: Major in Aural Rehabilitation or DPR.	Curricular adaptation, methods, techniques, and organization necessary for teaching the hearing impaired.
SPA	6329	Educational Audiology	3	AS	CSD		Provides information on consulting and collaborating with speech pathologists, teachers, and others about the relationship of hearing

							loss to the development of psychosocial, communicative, cognitive, physical, academic, and vocational skills of a child.
SPA	6340	Principles of Amplification I	3	AS	CSD		Provide information and training concerning the design and measurement of the modern hearing aid. The history of hearing aids, types of hearing aids, hearing aid components, measurement and modification of hearing aid response, and earmold acoustics.
SPA	6341	Principles of Amplification II	3	AS	CSD	PR: SPA 6340.	The general goal of this second of three hearing aid courses is to provide information and training related to the assessment, selection, fitting, verification, and validation processes associated with the modern hearing aid.
SPA	6349	Advanced Study of Sensory Aids for Hearing Impaired	3	AS	CSD	PR: SPA 6340, SPA 6341	This course is designed to supplement and expand on previous coursework through a discussion of advanced technical, clinical, and professional issues related to the design, measurement, and fitting of sensory aids.
SPA	6354	Hearing Conservation	3	AS	CSD	PR: DPR.	An investigation of the hazardous properties of noise and their effects upon the human auditory systems; hearing conservation programs in industry; and the extra-aural effects and control of community noises.
SPA	6392	Profession of Audiology	2	AS	CSD		Acquaint students with a basic understanding of the profession of Audiology. Topics covered include: Historical underpinnings, scope of practice, ethics, legal issues, evidence-based practice, professional organizations, and current issues.
SPA	6401	Pediatric Language Disorders	3	AS	CSD	PR: DPR.	An examination of the pre-verbal and language skills of the infant and preschool child, and of the Speech-Language Pathologist's role in the diagnosis, treatment, and as parent-trainer for these children.
SPA	6404	Language Learning Disabilities	3	AS	CSD	PR: DPR.	Examination of research and clinical literature pertaining to causes and effects of atypical language and literacy learning and developmental frameworks for integrated intervention in oral and written language.
SPA	6410	Aphasia and Related Disorders	3	AS	CSD	PR: SPA 6106 and DPR.	Consideration of the neurological and psychological aspects of aphasia and related disorders as they relate to communication disorders. Specific language therapy approaches are discussed and evaluated.
SPA	6413	Augmentative and Alternative Communication	3	AS	CSD	PR: DPR.	This course details the in-depth assessment and treatment of communication modes in non-speaking individuals. Students will be presented with the variety of aided and unaided systems which

							exist for helping non-speaking persons; students gain experience in the use of these devices.
SPA	6421	Language for the Hearing Impaired	3	AS	CSD	PR: SPA 3030, SPA 3310, SPA 4363, and DPR.	Techniques and materials of teaching language to children with auditory disorders as well as evaluation and analysis of contemporary intervention and clinical methods.
SPA	6422	Speech Perception and Production for the Hearing Impaired	3	AS	CSD	PR: SPA 3310, SPA 3311 or CC.	In depth study of the effects of hearing loss on speech perception and on the development of speech production skills in children. Methods for testing/training speech perception/production skills in the hearing-impaired are discussed.
SPA	6473	Multicultural Differences in Language	3	AS	CSD	PR: CI.	The focus is on developing intercultural competencies to design and implement more culturally and linguistically appropriate services for individuals with communication disorders or differences.
SPA	6505	Practicum	1-10	AS	CSD	PR: DPR.	Participation in speech-language pathology and audiology practicum in the University clinical laboratory and selected field settings.
SPA	6553	Advanced Differential Diagnosis and Treatment Planning	3	AS	CSD	PR: DPR.	The interpretation of evaluation results and the integration of these data in order to make a differential diagnosis leading to an appropriate therapy plan. The administration, evaluation, and reporting of advanced evaluation techniques not covered in SPA 5552.
SPA	6601	Ethical Practice Issues in Communication Sciences and Disorders	2	AS	CSD		Topics include: legal and ethical issues affecting practice, licensure, and ASHA certification, the ASHA Code of ethics, laws and regulations governing practice in health care and educational settings, quality assurance standards.
SPA	6675	Reading for the Hearing Impaired	2	AS	CSD	PR: RED 4310 and DPR.	Techniques and materials for teaching reading to children with auditory disorders. Evaluation and analysis of contemporary programs and methods.
SPA	6676	Speech Perception and Sensorineural Hearing Loss	3	AS	CSD	PR: SPA 3310, SPA 3030.	Overview of the acoustics of speech and theories of speech perception. Speech perception in listeners with normal and impaired hearing. The role of speech audiometry in clinical assessment of speech perception abilities and central auditory processing.
SPA	6805	Research Procedures in Communication Sciences and Disorders	3	AS	CSD	PR: DPR.	Advanced research and experimental design techniques employed in clinical and laboratory settings in speech-language pathology and audiology.
SPA	6906	Independent Study	1-19	AS	CSD	PR: DPR. S/U grading only.	Independent study in which students must have a contract with an instructor.
SPA	6910	Directed Research	1-19	AS	CSD	PR: GR. ML, DPR. S/U grading only.	

SPA	6930	Selected Topics	3	AS	CSD	PR: DPR.	A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member.
SPA	6971	Thesis: Master's	2-19	AS	CSD	PR: DPR.	
SPA	7150	Advanced Speech Science	3	AS	CSD	PR: SPA 3011 or equivalent; SPA 5150L; DPR.	Advanced study of the acoustics, production, and perception of normal and disordered speech.
SPA	7415	Neurolinguistic Theories of Language	3	AS	CSD	PR: SPA 6410, SPA 6232 and DPR.	Neurolinguistic theories as appropriate to the discipline are presented and discussed in relationship to language development and disorders. Information from linguistics, psycho-linguistics, artificial intelligence, neuroanatomy, and other sciences are applied to Language Science.
SPA	7931	Seminar in Communication Sciences and Disorders	3	AS	CSD	PR: DPR.	Addresses the central research and clinical issues related to the diagnosis and treatment of communication disorders. Content of seminars varies with instructor's expertise.
SPA	7980	Dissertation	2-19	AS	CSD	PR: Admission to Candidacy.	PR: Admission to Candidacy. Doctoral Dissertation.
SPC	5238	Topics in Rhetorical Analysis	3	AS	SPE		Introduces a variety of critical perspectives applied to rhetoric in specialized contexts. Topics vary depending upon interest of students and faculty.
SPC	5930	Topics in Discourse	3	AS	SPE		Variable topics course.
SPC	6214	Ethnography of Communication	3	AS	SPE	PR: Graduate Standing.	Explores ethnography as an approach to conducting research and a means of theorizing about human communication.
SPC	6231	Survey of Rhetorical Theory	3	AS	SPE		Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.
SPC	6236	Contemporary Rhetorical Theory	3	AS	SPE	PR: GS.	Basic texts in 20th century rhetorical theory. Readings may vary.
SPC	6391	Interpersonal Communication	3	AS	SPE		Study of theory and research related to interpersonal communication.
SPC	6432	Family Communication	3	AS	SPE	PR: Graduate Standing.	This course examines the family in terms of the patterns of interaction through which meanings are produced. Family communication concepts and theories will be introduced as they relate to diverse family forms and experiences.
SPC	6545	Persuasion	3	AS	SPE		Study of contemporary theories and research in persuasion.
SPC	6645	Rhetoric in Society	3	AS	SPE	PR: GS.	Examination of ways in which rhetoric reflects and molds social processes, including social integration and/or alienation; social roles and identity construction; institutions and movements; ideology and social change.
SPC	6682	Rhetorical Criticism	3	AS	SPE		The study of theoretical

							perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.
SPC	6726	Communication in Close Relationships	3	AS	SPE	PR: Graduate Standing.	Interpersonal and intersubjective processes involved in the development of close personal relationships. Includes studies and personal experiences that cut across historical, therapeutic, spiritual, philosophical, literary, and cinematic perspectives.
SPC	6728	Communicating Grief, Loss, and Illness	3	AS	SPE	PR: Graduate Standing.	How illness and loss disrupt our stories of self and relationships and lead to construction of new stories, also cultural patterns of stories. Topics include critical illness and relationships, dying, bodies, emotions, caregiving, aging, and divorce.
SPC	6903	Directed Readings	1-4	AS	SPE	PR: CC.	
SPC	6913	Directed Research	1-19	AS	SPE	PR: ML, CC. S/U.	
SPC	6934	Selected Topics in Communication	1-4	AS	SPE		
SPC	6935	Pro Seminar in Communication	1-3	AS	SPE	PR: GS.	Reading and discussion of current books, articles, and papers in communication theory and research.
SPC	6971	Thesis: Master's	2-19	AS	SPE	PR: CC. S/U.	
SPC	7900	Doctoral Research Tutorial	1-3	AS	SPE	PR: Admitted to doctoral program.	Advanced directed research.
SPC	7930	Seminar in Rhetorical Studies	3	AS	SPE	PR: GS.	Variable topics course.
SPC	7980	Dissertation: Doctoral	2-19	AS	SPE	PR: Admission to candidacy.	
SPN	5525	Modern Spanish American Civilization	3	AS	WLE	PR: SPN 3520 or equivalent or graduate standing.	Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.
SPN	5567	Modern Spanish Civilization	3	AS	WLE	PR: SPN 3500 or equivalent or graduate standing.	Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.
SPN	6795	Phonology and Dialectology	3	AS	WLE	PR: SPN 3300.	A study of the Spanish sound system.
SPN	6845	History of the Spanish Language	3	AS	WLE		Traces the development of Spanish from its Latin origins to the present.
SPN	6940	Graduate Instruction Methods	1-3	AS	WLE	S/U.	Special course to be used primarily for the training of teaching assistants.
SPS	6101	Child and Adolescent Behavior Disorders	4	ED	EDF		Theoretical and empirical identification and understanding of children and adolescents with behavior disorders. Treatment issues as they relate to school psychological services.
SPS	6196	Assessment of Child and Adolescent	4	ED	EDF		Conceptualizations of personality and personality assessment;

		Personality					perspectives of disturbed and disturbing behavior, and personality assessment measures.
SPS	6197	Psychoeducational Diagnosis and Prescription I	4	ED	EDF	PR: Acceptance to graduate program in School Psychology.	Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.
SPS	6198	Psychoeducational Diagnosis and Prescription II	4	ED	EDF	PR: Acceptance to graduate program in School Psychology.	Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.
SPS	6700C	Psychoeducational Interventions With Children and Adolescents I	4	ED	EDF	PR: Acceptance to School Psychology Graduate Program or CI. Concurrent enrollment required with SPS 6701C.	Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.
SPS	6701C	Psychoeducational Interventions With Children and Adolescents II	4	ED	EDF	PR: Acceptance to School Psychology Graduate Program or CI. Concurrent enrollment required with SPS 6700C.	Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of

							classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.
SPS	6702C	Psychoeducational Interventions With Children and Adolescents III	4	ED	EDF	PR: Acceptance to School Psychology Graduate Program or CI. Concurrent enrollment required with SPS 6700C.	Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.
SPS	6806	Developmental Bases of Diverse Behaviors	4	ED	EDF		This course deals with some of the major social and educational policy concerns posed by developmental and cultural diversity in our society.
SPS	6936	Graduate Seminar in School Psychology	1-3	ED	EDF	PR: CI.	Seminars to explore current matters of professional concern in school psychology, such as trends, problems, legal and ethical issues, and empirical bases of techniques.
SPS	6940	Practicum in Psychoeducational Interventions	1-4	ED	EDF	PR: Concurrent enrollment in Psychoeducational Interventions with Children and Adolescents - I or II (SPS 6700C or SPS 6701C), or DPR.	Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology.
SPS	6941	Practicum in Psychoeducational Interventions	1-4	ED	EDF	PR: Concurrent enrollment in Psychoeducational Interventions with Children and Adolescents - I or II (SPS 6700C or SPS 6701C), or DPR.	Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology.
SPS	6947	Internship	1-9	ED	EDF	Open to School Psychology graduate degree candidates only.	Involves field-based, supervised experience of 1,500 (minimum) clock hours at the Educational Specialist level and 2,000 (minimum) clock hours at the Doctoral level.
SPS	6971	Thesis: Masters/Educational Specialist	2-19	ED	EDF	S/U. MA/EdS Candidates only.	
SPS	7090	Supervision Processes in School	4	ED	EDF		Theory, skills, and practice of supervision in school psychology.

		Psychology					
SPS	7199	Advanced Psychoeducational Assessment	2-4	ED	EDF	PR: SPS 6197/SPS 6198 or DPR.	Advanced topics and techniques in the comprehensive assessment of children and adolescents typically referred for school psychological services.
SPS	7205	Advanced Consultation Processes in School Psychology	2-4	ED	EDF	PR: EDF 6166, or DPR.	Advanced topics and techniques in consultation processes for advanced school psychologists.
SPS	7700	Advanced Psychoeducational Interventions	2-4	ED	EDF	PR: SPS 6700C/SPS 6701C and SPS 6940/SPS 6941, or DPR.	Advanced topics and techniques in psychoeducational interventions for children and adolescents referred for school psychological services.
SPS	7701	Advanced Child and Adolescent Psychotherapy	2-4	ED	EDF	PR: SPS 6702C, or DPR.	Covers advanced topics and techniques in child and adolescent psychotherapy relevant to school psychological services.
SPS	7910	Directed Research in School Psychology	1-19	ED	EDF	PR: CI.	A doctoral research experience supervised by a faculty member.
SPS	7936	Advanced Seminar in School Psychology	1-3	ED	EDF		Exploration of current issues and trends in school psychology, as it relates to research and professional practice, and the history and systems of education and psychology.
SPS	7980	Dissertation	2-30	ED	EDF	PR: Admission to Candidacy.	
SPW	5135	Colonial Spanish American Literature	3	AS	WLE	PR: SPW 4131.	Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.
SPW	5355	Spanish American Drama and Poetry	3	AS	WLE	PR: SPW 4131.	Major writers of all genres. Emphasis on modern writers.
SPW	5387	Spanish American Prose	3	AS	WLE	PR: SPW 4131.	Emphasis on the gaucho theme and contemporary prose fiction.
SPW	5388	Golden Age Poetry and Drama	3	AS	WLE	PR: SPW 4100.	Lope de Vega, Alarcon, Tirso, Calderon, and others.
SPW	5405	Medieval Literature	3	AS	WLE	PR: SPW 4100 or equiv.	Course gives an in-depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buen Amor, and La Celestina.
SPW	5465	19th Century Literature	3	AS	WLE	PR: SPW 4101.	An appreciation of the romantic and realist periods in Spanish literature.
SPW	5605	Cervantes	3	AS	WLE		Cervantes' masterpiece Don Quijote de la Mancha.
SPW	5725	Generation of 1898	3	AS	WLE	PR: SPW 4101.	The major figures of the period and their main followers.
SPW	5726	Vanguard Literature 1918 and 1936	3	AS	WLE	PR: SPW 4101.	A study of Vanguard literature in Spain between 1918 and 1936.
SPW	5934	Selected Topics	3	AS	WLE	PR: Upper-level or GS.	Study of an author, movement, or theme.
SPW	6427	Golden Age Novel	3	AS	WLE		Realistic prose-fiction of the Renaissance and Golden Age.
SPW	6485	Post Civil War Literature	3	AS	WLE	PR: SPW 4101.	The drama and novel since 1936.
SPW	6775	Caribbean Literature	3	AS	WLE	PR: SPW 4131	Emphasis on contemporary Cuban and Puerto Rican literature.
SPW	6910	Directed Research	1-19	AS	WLE	PR: GR. ML, CC. S/U.	
SPW	6936	Graduate Seminar	3	AS	WLE	PR: CC	Topics vary.
SPW	6971	Thesis: Master's	2-1	AS	WLE	PR: CC. S/U.	

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SSE	5331	Foundations, Curriculum & Instruction of Social Science Education	3	ED	EDI		Social studies curriculum, methods of instruction and social, philosophical and psychological foundations are examined. Students are expected to plan and present instructional plan(s) appropriate to middle and secondary school levels demonstrating command of the course content.
SSE	5332	Methods & Strategies in Social Science Education	3	ED	EDI		Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.
SSE	5641	Reading and Basic Skills in the Content Area	3	ED	EDI		Reading skills and the other basic skills as applied to the social studies are examined. Students are expected to plan and present instructional plan(s) appropriate to the social studies classroom demonstrating command of the course content. Fieldwork in a middle school is required.
SSE	5644	Economic Decision-Making for Teachers	3	ED	EDW	PR: Admission to College of Education or DPR.	Provides teachers (K-12) with content related to the operation of businesses in a market economy. Teachers analyze economic/business concepts from the perspective of individuals currently operating businesses in the Tampa Bay area. Focus of the instruction is on the application of content to K-12 instructional programs.
SSE	6617	Trends in K-6 Social Science Education	3	ED	EDE	PR: Dual Track or MAT Admission.	This course focuses on theoretical foundations and strategies employed by effective social studies teachers in motivating K-6 aged youth to acquire the information, skills, and reasoning unique to the social sciences. Students also conduct research.
SSE	6636	Trends in Secondary Social Science Education	3	ED	EDW	PR: SSE 4333, SSE 4334, SSE 4335.	This course is designed for graduate students to research the history, theory, practices and current trends of social science education and to develop a personal, academic social science philosophy.
SSE	6906	Independent Study in Social Sciences Education	1-6	ED	EDW		An opportunity for advanced graduate students to examine a specific issue or topic in the field of social science education.
SSE	6932	Selected Topics in Social Science Education	3	ED	EDI	PR: Admission to Masters	Readings and discussions organized around an in-depth examination of selected social studies education topics selected by professors.
SSE	6947	Internship	6	ED	EDI	PR: CI.	This course provides students with an extended school-based experience, under the guidance of

							a cooperating teacher and a university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. Supervised teaching at the secondary level as appropriate. S/U (PR: CI)
SSE	7700	Social Science Curriculum and Instruction Issues	4	ED	EDI	PR: Admittance to the Social Science Ph.D. program.	This advanced graduate course investigates current trends and new directions in the social science curriculum, leading theories and practices related to instructional methodology, and implications of significant research and developments in the field.
SSE	7710	Research in Social Science Education	4	ED	EDI	PR: Admittance to the Social Science Ph.D. program.	This course prepares doctoral students in social science education to be active scholars. Students engage in a preliminary research study, examine theoretical, technical, ethical and practical issues related to conduct of research in education.
SSE	7720	Social Science Education Technological Innovations	4	ED	EDI	PR: Admittance to the Social Science Ph.D. program.	This course examines the use of technology in the social science classroom, barriers to integration, unrealized potential of technology and consequences of technological development on children and youth.
SSE	7730	Philosophy of Social Science Education	4	ED	EDI	PR: Admittance to the Social Science Ph.D. program.	This advanced graduate course allows students to research the philosophical and theoretical underpinnings of a social science education and the role of a university as well as to develop a personal, philosophical construct.
SSE	7740	History of the Social Studies Since 1880	4	ED	EDI	PR: Admission to Doctoral Program in C&I with an emphasis in SSE.	This course is a historical investigation of the development of the secondary school history/social studies curriculum, including questions related to objectives, content, and methods of instruction.
SSE	7910	Directed Research in Social Sciences Education	1-9	ED	EDW	PR: CI	This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U
SSE	7945	Applied Research in Social Science Education	2	ED	EDI	PR: Admittance to the Social Science Ph.D. program.	This course provides doctoral students in social science education with the opportunity to teach post–secondary courses, engage in sustained research, pursue external funding, and participate in professional activities.
SSE	7980	Dissertation in Social Science Education	2-24	ED	EDW	PR: Admission to Candidacy	Rpt.
STA	5166	Statistical Methods I	3	AS	MTH	PR: STA 4321 or CI.	Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical

							theory, numerical methods, and analysis of real life data.
STA	5228	Sampling Techniques	3	AS	MTH	PR: STA 4321 or CI.	Sampling versus total enumeration. Planning of a survey. Statistical sampling methods and their analysis; simple, stratified, systematic cluster, and double and multistage sampling. Use of auxiliary information in sampling. Ratio and regression estimates. Case study.
STA	5326	Mathematical Statistics I	3	AS	MTH	PR: STA 5446.	Sample distribution theory, point & interval estimation, optimality theory, statistical decision theory, and hypothesis testing.
STA	5446	Probability Theory I	3	AS	MTH	PR: STA 4442 and MAA 4212 or CI.	Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.
STA	5526	Non-Parametric Statistics	3	AS	MTH	PR: STA 5326 or CC.	Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.
STA	6167	Statistical Methods II	3	AS	MTH	PR: STA 5166.	Design of statistics programs, pivoting and other technology used in stepwise regressions, algorithms in non-linear regression, balanced and unbalanced ANOVA. Iteration methods for numerical solutions of likelihood equations.
STA	6206	Stochastic Processes	4	AS	MTH	PR: STA 5446.	Poisson processes, renewal theorems, Markov chains on a countable state space, continuous-time Markov processes with a countable state space, birth and death processes, branching processes, introduction to Brownian motion.
STA	6208	Linear Statistical Models	3	AS	MTH	PR: STA 5167 or STA 5326 or CI.	Distribution theory, estimation, and hypothesis testing for the general linear model. Experimental designs, including randomized block and incomplete block designs. Multiple regression, ANOVA, and ANCOVA.
STA	6447	Probability Theory II	3	AS	MTH	PR: STA 5446 and MAA 5306 or CI.	Characteristic functions, central limit theorem, martingale inequalities and convergence theorems, optional stopping, ergodic theorems and applications.
STA	6746	Multivariate Analysis	3	AS	MTH	PR: STA 5326 or CI.	Multivariate normal distribution; its properties and inference; matrix random variables; multiple and partial correlation; discriminant analysis, principle components and factor analysis; multivariate ANOVA; analysis of covariance; applications using computers.
STA	6876	Time Series Analysis	3	AS	MTH	PR: STA 5326 or CI.	Theory and applications of discrete time series models illustrated with forecasting problems. Filtering, forecasting, modeling, and spectral analysis of time series. Control problems. Applications using a computer.
SYA	6126	Contemporary	3	AS	SOC	PR: Undergraduate	Emphasizes logical and

		Sociological Theory				course in sociological theory or CI	conceptual dimensions of theory and theory construction.
SYA	6205	Social Construction of Reality	3	AS	SPE	PR: Graduate Standing.	Evolution of the concept of social construction; emphasizes the consequences of understanding lived experiences and discursive representations as social constructions. Topics include depression, child abuse, masculinity/femininity, and sexual harassment.
SYA	6305	Methods of Research	3	AS	SOC	PR: Undergraduate course in sociological research methods or CI.	Logic and practice of research; problems of observation and data collection, data processing, and evaluation.
SYA	6315	Qualitative Research Methods	3	AS	SOC	PR: Undergraduate course in sociological research methods or CI.	Designed to introduce students to qualitative research methods, such as participant observation and intensive interviewing that require the researcher to get close to the social situation of interest.
SYA	6316	Ethnography	3	AS	SOC	PR: Graduate Standing or CI.	Examines the theoretical and practical issues in ethnographic research and various styles of ethnography. Provides hands-on training in ethnographic data collection and qualitative data analysis.
SYA	6405	Sociological Statistics	3	AS	SOC	PR: Undergraduate statistics course or CI.	Logic and application of parametric and nonparametric statistical analysis for sociological data.
SYA	6437	SPSS and Social Research	3	AS	SOC	PR: Research Methods and Statistics.	Provides students with practical experience using SPSS (Statistical Package for the Social Sciences). Introduces students to measurement of sociological variables, data processing, and various parametric and nonparametric data analysis procedures.
SYA	6505	The Communication of Sociology	1-3	AS	SOC		Designed to help students define and formalize more effective efforts at communicating sociology.
SYA	6909	Independent Study	1-19	AS	SOC	PR: GS, CI. S/U.	Independent study in which student must have a contract with an instructor.
SYA	6912	Directed Research	1-19	AS	SOC	PR: GS, CI. S/U.	
SYA	6933	Special Topics-Sociology	3	AS	SOC	PR: GS.	Content varies according to interests of students and instructor.
SYA	6940	Internship	1-6	AS	SOC	PR: Graduate Standing.	Designed for students wishing to develop practical sociological skills and apply sociological knowledge to questions of practical concern. Internship experiences include those in basic and applied research, community organization, and public policy.
SYA	6971	Thesis: Master's	2-19	AS	SOC	PR: CC. S/U.	
SYD	6605	City and Community	3	AS	SOC	PR: Graduate standing or CI.	Provides training in the field of urban and community sociology. Focuses on the field's early theoretical foundations, "classic" research, and contemporary

							debates. Concentrates on the U.S., although some cross-cultural comparisons will be offered.
SYD	6706	Race and Ethnicity	3	AS	SOC	PR: GS or Departmental Approval.	Introduces historical development of race, social construction of racial and ethnic identities, race-class-gender interrelationships, and various issues of immigration. Exploration of theories used to explain racial and ethnic inequality today.
SYG	6936	Seminar in Teaching Sociology	3	AS	SOC	PR: GS or Departmental Approval	Provides a key link for future teaching sociologists, assisting them to make the switch from consumers to educators of the sociological perspective. Places equal emphasis on theoretical and practical issues surrounding teaching sociology.
SYO	5365	Industrial Sociology		AS	SOC		
SYO	6125	Family Analysis	3	AS	SOC	PR: Course in family or CI.	Theory of interpersonal relations and interaction in the modern family. Analysis of functions and roles.
SYO	6255	Seminar in Sociology of Education	3	AS	SOC	PR: GS or Departmental Approval.	Sociological analysis of the institution of education. Primary attention directed toward class, race, and gender inequalities and educational transformations.
SYO	6406	Sociology of Health and Illness	3	AS	SOC	PR: GS.	Survey of core concepts and current research in the sociology of health and illness: social correlates of disease, health care utilization, physician-patient relations, medical compliance, and illness behavior.
SYO	6545	Complex Organizations	3	AS	SOC	PR: Course in social organizations or CI.	Organizational theory, bureaucratic models, authority, power legetimation, and types of formal organization.
SYO	7435	Sociology of Disability in Urban Society	3	AS	SOC		This course critically evaluates cuurent controversies over the utility of a variety of theoretical perspectives and research methods in understanding the lived experience of disability in 21st century urban society.
SYP	6008	Social Problems, Identity, and Community	3	AS	SOC	PR: GS or Department Approval	An examination of social problems using social constructionist theoretical perspectives. Topics focus on how meaning is created within historically, culturally, and politically situated communities.
SYP	6016	Emotions in Everyday Life	3	AS	SOC	PR: Graduate Standing or CI.	Explores the role of emotions in the everyday lives of individuals, within the micro-social contexts of identities, interactions, and social relationships.
SYP	6357	Comparative Social Movements	3	AS	SOC	PR: GS or department approval.	Provides an overview of the various theoretical perspectives used to explain the emergence, growth, strategies and success of social movements in contemporary America and in other countries.
SYP	6425	Sociology of Consumer Culture	3	AS	SOC	PR: GS or department approval.	This course critically examines the key theories and analyses of American consumerism with special attention to inequalities of race, class, and gender.

SYP	6515	Sociology of Deviance	3	AS	SOC	PR: GS or Department Approval.	Develops knowledge of traditional theories of deviance as well as critiques them. Through development of alternative perspectives, challenges constructions of deviance and the mechanisms of power.
TAX	5015	Federal Taxation of Business Entities	3	BA	ACC	PR: TAX 4001 with a grade of "C" or better (not C-).	Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.
TAX	6005	Advanced Partnership Taxation	3	BA	ACC	PR: TAX 4001.	A study of advanced income tax problems involving partnerships, including organization, operation, distributions, liquidations, basis, family partnerships, and sales and exchanges. The planning and business aspects of partnerships are emphasized.
TAX	6016	Advanced Corporate Taxation I	3	BA	ACC	PR: TAX 4001	This is the first of two sequential courses on Advanced Corporate Taxation. This course studies advanced income tax problems involving corporations, including organization, operation, distribution, and liquidation. Topics include "S" Corporations, collapsible corporations, personal holding companies, accumulation of earnings, and acquisition and disposition of cooperations. The planning and business aspects of corporate transactions are emphasized.
TAX	6025	Advanced Corporate Taxation II	3	BA	ACC	PR: TAX 6016	This is the second of two sequential courses on Advanced Corporate Taxation. This cousre covers advanced corporation topics including multiple corporations, transfer of corporate attributes, corporate divisions, corporate reorganizations, consolidated corporate tax returns, limitation on corporate loss carry-forwards and taxation of foreign corporations and foreign source income.
TAX	6065	Contemporary Issues In Taxation	3	BA	ACC	PR: TAX 4001 and TAX 5015 or equivalent and admission to MAcc program. CP: ACG 6835.	A study of contemporary issues in taxation with an emphasis on related computer research. Current tax issues in the areas of corporations or partnerships will be explored when appropriate, along with related tax planning techniques.
TAX	6134	Advanced Corporate Taxation	3	BA	ACC	PR: TAX 4001 and TAX 5015	A study of advanced income tax problems involving corporations, including organization, operation, distributions, liquidations, consolidated corporate tax returns, and taxation of foreign corporations and foreign source income.
TAX	6445	Estate Planning	3	BA	ACC	PR: TAX 4001.	This course covers the basics of estate, gift, and trust taxation and introduces the student to tax planning techniques to minimize the tax-burden on inter-generation

							transfers of wealth.
THE	5909	Directed Studies	1-6	VP	TAR	PR: CI and CC.	Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.
THE	5931	Selected Topics In Theatre	1-8	VP	TAR	PR: CI.	The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format.
THE	6175	New British Theatre and Drama	3	VP	TAR	PR: Graduate standing or CI.	A study of contemporary theatrical practice and key dramatic texts in the British Isles. Departmental permit required of majors and non-majors.
THE	6720	Drama in Elementary School	3	VP	EDD		Methods of using theatre and drama activities in elementary school, including use of drama and theatre for interdisciplinary, integrated projects. Available to majors and non-majors, no extra laboratory sections.
THE	6736	Methods of Directing the High School Play	3	VP	EDD		Directing the high school play including script selection, analysis and interpretation, audition and casting procedures, composition, picturization, staging movement, rhythm and pacing, pantomimic dramatization, organizing and conducting rehearsals.
THE	6930	Selected Topics in the Teaching of Theatre	3	VP	EDD	PR: Open only to students who have completed all other graduate level Theatre Education courses). S/U.	Investigation of topics related to theatre teaching of special interest to the student. Topics will be selected by the student and approved by the graduate advisor.
TSL	5321	ESOL Strategies for Content Area Teachers	3	AS	WLE		Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers.
TSL	5371	Methods of Teaching English As A Second Language	3	AS	WLE		Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.
TSL	5372	ESOL Curriculum and Instruction	3	AS	WLE		Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.
TSL	5471	Language Testing	3	AS	WLE	PR: TSL 5371.	Lecture course on testing English as a second/foreign language.
TSL	5525	Cross-Cultural Issues in ESL	3	AS	WLE	PR: LIN 5700.	Lecture course on cultural issues in Teaching English as a Second/Foreign language.
TSL	6945	Internship	1-6	AS	WLE	PR: TSL 5371 and TSL 5372. S/U.	Required of all candidates for the M.A. degree in TESL. Supervised teaching of English as a second language to non-native speakers at appropriate levels and settings.
TTE	5205	Traffic Systems Engineering	3	EN	EGX	PR: TTE 4004 or equivalent.	Traffics models, intersection anaysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.
TTE	5501	Transportation	3	EN	EGX	PR: College Algebra	Fundamentals of urban

		Planning and Economics				& CI.	transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation an choice of transportation alternatives.
TTE	6270	Intelligent Transportation Systems	3	EN	EGX	PR: TTE 5205.	ITS architecture design and evaluation, simulation and modeling, advanced traffics management systems, traveler information systems, vehicle control systems, commercial vehicle operations, public transportation systems, and telecommunications.
TTE	6315	Transportation Safety	3	EN	EGX	PR: TTE 5205.	Transportation safety studies, accident data analysis, traffic safety control devices, special population regiment safety, highway conflict studies, accident reconstruction, and tort and liability issues.
TTE	6505	Discrete Choice Models of Travel Behavior	3	EN	EGX	PR: TTE 5501.	Theories of travel behavior; multinominal logit and nested logit models of mode choices, destinationchoice, and car ownership. Theory and application to travel forecasting.
TTE	6507	Travel Demand Modeling	3	EN	EGX	PR: TTE 5501.	Statistical modeling of travel demand forecasting; emphasis on trip generation and trip chaining.
TTE	6651	Public Transportation	3	EN	EGX		Planning, design and operation of public transportation systems; costs and productivity of transit; impacts of transit on travel behavior and urban form; ridership forecasting; public transportation policy analysis.
TTE	6655	Transportation and Land Use	3	EN	EGX		Relationships between transporation and land use, coordinated transportation and land use planning, theory of urban development, urban sprawl, integrated transportation and land use models, transporation friendly urban design, and accessibility.
TTE	6835	Pavement Design	3	EN	EGX	PR: TTE 4005 or equivalent.	Analysis of flexible and rigid pavements, equivalent single wheel loads, pavement material and their properties, pavement evaluation, reliability, flexible and rigid pavement design, overlay design, pavement life-cycle cost analysis.
TTE	6837	Pavement Management Systems	3	EN	EGX	PR: TTE 4005 or equivalent.	Review of flexible and rigid pavement design, overlay design; pavement evaluation, pavement network delineation, condition prediction models, pavement maintenance and rehabilitation, pavement management techniques, life-cycle analysis.
TTE	6930	Graduate Transportation Seminar	1	EN	EGX	PR: Majors only. S/U.	Seminars, presentations, and discussions of contemporary transportation issues.
URP	6056	City and Regional Planning	3	AS	POL	GS.	A review of goals, objectives, and interrelationships between regional and city planning;

							intergovernmental and policy issues. Cross-listed with Political Science.
WST	5308	Feminist Spirituality	3	AS	WST		Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca.
WST	5825	Internship in Women's Studies	3	AS	WST	PR: Must have completed Comprehensive Exam. Majors Only. All required courses in MA program, CC.	Student placement in approved intern setting for a minimum of 150 hours of supervised experience. S/U. Department Approval Required.
WST	5934	Selected Topics	1-4	AS	WST	PR: DPR.	Study of current research methods and scholarship on women from a multidisciplinary perspective.
WST	5940	Internship in Women's Studies	3-6	AS	WST	PR: Majors only. All required courses in MA program, CC. Permit.	Student placement in an approved intern setting for a minimum of 240 hours of supervised experience. S/U only.
WST	6001	Feminist Research and Methodology	3	AS	WST		To develop a more comprehensive understanding of the situation of women in society and to develop a theoretical basis for integrating this knowledge into the student's graduate course of study. Available to non-majors.
WST	6002	Feminist Scholarship and Pedagogy	3	AS	WST		Introduces students to techniques of feminist teaching and scholarly writing. Covers issues of professionalism, an overview of contemporary scholarly issues in feminist studies, and basic feminist pedagogy. Department Approval Required.
WST	6266	Women of Color: Activism and Social Change	3	AS	WST		Intensive reading and discussion of the participation of women of color in contemporary revolutionary and reformist activities. Class project involvement is required.
WST	6406	Women of Color/Activism and Social Change	3	AS	WST		Intensive reading and discussion of the participation of women of color in contemporary and reformist activities.
WST	6560	Advanced Feminist Theory	3	AS	WST		An in-depth exploration of current issues and debates in Feminist Theories. Topics may include: representation, essentialism, authority structures, subjectivity, identity and difference. Department Approval Required.
WST	6562	Body Politics	3	AS	WST		An in-depth feminist exploration of how the body is produced, inscribed, replicated, and often disciplined as a result of various powers at work.
WST	6705	Women and Policy	3	AS	WST		Examination of policy areas such as employment, violence, welfare which have a significant impact on women. The aim is to achieve a deeper understanding of the way in which gender functions as a category of analysis in policy

							decision, and also examines and critiques the area from which policy is produced.
WST	6900	Directed Readings	1-3	AS	WST	PR: CI.	Supervised program of intensive readings of an interdisciplinary nature focusing on women. Student must have contract with instructor.
WST	6910	Directed Research	1-3	AS	WST	PR: CC and signed contract. S/U.	Provide graduate students with research experience in areas of specific interest utilizing feminist perspectives and research methods.
WST	6936	Selected Topics in Women's Studies	3	AS	WST		Content varies according to scholarship focus of students and instructor. Repeatable-- content and instructor will vary.
ZOO	5456	Ichthyology	3	AS	BIO	PR: Senior or GS in Biology; ZOO 2701C, CI. PCB 4674 is suggested.	Evolution, systematics, structure, behavior, physiology, and ecology of fishes.
ZOO	5456L	Ichthyology Lab	1	AS	BIO	CR/PR: ZOO 5456	Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.
ZOO	5463C	Herpetology	4	AS	BIO	PR: CI.	Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.
ZOO	5555C	Marine Animal Ecology	4	AS	BIO	PR: PCB 3043, senior standing, CI.	Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.
ZOO	6455	Advances in Ichthyology	1	AS	BIO	PR: CI.	This course discusses current topics in Ichthyology. Readings are taken from the primary literature. The course is restricted to graduate students with a background in Ichthyology.