SECTION 12

COLLEGE OF
ARTS AND SCIENCES
## Changes to Note

Graduate Council approved the changes on the date noted.

### Administrative Changes

|----|----------------------------------|-------|------------------------------------------------------------------------------------------------------------|----------|

### Accelerated Majors

|----|-------------------------------------|-------|-------------------------------|----------|

### Concurrent Degrees

<table>
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<th>AS</th>
<th>Applied Anthropology / Public Health</th>
<th>M.A./MPH</th>
<th>Add Coverdell Peace corps language to Anthro section</th>
<th>5/1/2017</th>
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<td>AS</td>
<td>Applied Anthropology / Public Health</td>
<td>Ph.D./MPH</td>
<td>Add Coverdell Peace corps language to Anthro section</td>
<td>5/1/2017</td>
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<td>M.A. / M.A.</td>
<td>New Concurrent Degree Option</td>
<td>5/1/2017</td>
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### Majors

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<th>M.A.</th>
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Applied Anthropology (M.A.)

University of South Florida
College of Arts and Sciences
4202 E. Fowler Ave BEH107
Tampa, FL 33620

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

College Dean:  Eric Eisenberg, Ph.D.
Sr. Associate Dean:  Robert Potter, Ph.D.
Associate Dean:  Allison Cleveland Roberts, Ph.D.

College Structure:
The College of Arts and Sciences is USF’s largest college. The College is comprised of three schools including the School of Social Sciences, the School of Natural Sciences & Mathematics, and the School of Humanities, all with strong interdisciplinary connections among them and throughout the University.

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 universe. 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.

Degrees, Majors, and Concentrations Offered:

**Master of Arts (M.A.)**

Applied Anthropology (ANT)
  -Archaeological and Forensic Science (AAF)
  -Bio-cultural Medical Anthropology (BCM)
  -Cultural Resource Management (CRM)
  -Heritage Studies (HGS)
Chemistry (non-thesis) (CHA)
Communication (SPE)
Economics (ECO)
English (ENG)
  -Literature (LIT)
  -Rhetoric & Composition (RAC)
French (FRE)
Geography (GPY)
- Human Geography (USG)
- Geographic Information Science and Spatial Analysis (TGP)
- Environmental Geography (EVG)

History (HTY)
- American History (AHY)
- Ancient History (AHS)
- European History (EHS)
- Latin American History (LAH)
- Medieval History (MHS)

Latin American, Caribbean, and Latino Studies (LAS)

Liberal Arts (MA)
- Africana Studies (AFT)
- American Studies (AME)
- Film Studies (FLM)
- Humanities (HTS)
- Social and Political Thought (SPT)

Library and Information Science (LIS)

Linguistics (LIN)

Linguistics: English as a Second Language (ESL)

Mass Communications (COM)
- Media Studies (MCM)
- Multimedia Journalism (MMJ) inactive
- Strategic Communication Management (PRS)

Mathematics (MTH)
- Pure & Applied (PAA)

Philosophy (PHI)
- Philosophy & Religion (PHR)

Political Science (POL)
- Africana Studies (AFA)

Psychology (PSY)
- Clinical Psychology (PSC)
- Cognition, Neuroscience & Social Psychology (PCN)
- Industrial-Organizational Psychology (PSI)

Religious Studies (REL)

Sociology (SOC)

Spanish (SPA)

Statistics (STC)

Women’s and Gender Studies (WGS)

**Master of Fine Arts (M.F.A.)**

Creative Writing (CWR)
- Fiction (CFI)
- Poetry (CPO)

**Master of Public Administration (M.P.A.)**

Public Administration (PAD)
Master of Science (M.S.)
Biology (BIO)
- Cell Biology & Molecular Biology (MBG)
- Ecology and Evolution (EEV)
- Environmental & Ecological Microbiology (EVM)
- Physiology and Morphology (PMY)
Chemistry (CHM)
Environmental Science and Policy (ESP)
Geology (GLY)
Intelligence Studies (ILS)
  - Cyber Intelligence (CYI)
  - Strategic Intelligence (SGI)
Microbiology (MIC)
Physics (PHY)
  - Applied Physics (APM)
    - Atomic & Molecular Physics (AMZ)
    - Laser Physics (APZ)
    - Materials Physics (MPZ)
    - Optical Physics (OPZ)
    - Semiconductor Physics (SCZ)
    - Solid State Physics (SSZ)

Master of Urban and Regional Planning (M.U.R.P.)
Urban and Regional Planning (URP)

Doctor of Philosophy (Ph.D.)
Applied Anthropology (APA)
  - Archaeological and Forensic Science (AAF)
  - Bio-cultural Medical Anthropology (BCM)
  - Cultural Resource Management (CRM)
  - Heritage Studies (HGS)
Cancer Biology (CNB)
Cell and Molecular Biology (CBO)
Chemistry (CHM)
Communication (SPE)
Economics (ECO)
English (ENG)
  - Literature (LIT)
  - Rhetoric & Composition (RAC)
Geography and Environmental Science and Policy (GEP)
Geology (GLY)
Government (GOV)
History (HTY)
Integrative Biology
  - Ecology and Evolution (EEV)
  - Environmental & Ecological Microbiology (EVM)
  - Physiology and Morphology (PMY)
Linguistics and Applied Language Studies (LAL)
Mathematics (MTH)
   - Pure & Applied (PAA)
   - Statistics (STT)
Philosophy (PHI)
   - Philosophy and Religion (PHR)
Physics (Applied) (APD)
Psychology (PSY)
   - Clinical Psychology (PSC)
   - Cognition, Neuroscience & Social Psychology (PCN)
   - Industrial-Organizational Psychology (PSI)
Sociology (SOC)

Graduate Certificates Offered:
See Section 11: Graduate Certificates

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.
APPLIED ANTHROPOLOGY

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: December 15
Fall admission only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 40
Level: Masters
CIP Code: 45.0201
Dept. Code: ANT
Major/College Code: APA AS
Implemented: 1985

Concentrations:
Archaeological and Forensic Science (AAF) (2014)
Cultural Resource Management (CRM) (2007)
Heritage Studies (HGS) (2008)

CONTACT INFORMATION

College: Arts and Sciences
Department: Anthropology

Contact Information: www.grad.usf.edu
Other Resources:
http://anthropology.usf.edu/graduate/

MAJOR INFORMATION

The Applied Anthropology major, 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, media, and issues pertaining to race, gender, and ethnicity. Geographic specializations emphasize the Caribbean, Latin America, Sub-Saharan Africa, Europe, and the United States. More than 240 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.

Students entering the Applied Anthropology major at USF choose from one of four tracks: Archaeology, Biological Anthropology, Cultural Anthropology, or Medical Anthropology. Although these four tracks share some common requirements, and are bound by general rules of the USF Office of Graduate Studies, they have different curricula and employment trajectories. Archaeology Track graduates typically enter careers in contract archaeology, or public and private agencies and museums responsible for managing archaeological resources. The Cultural Anthropology Track is designed to lead to employment in diverse areas that include 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. Biological Anthropology students are trained to work in law enforcement, private sector consulting and research, and non-governmental organizations. The Medical Anthropology track prepares students to conduct research, evaluation, and consulting in a variety of settings, including community-based organizations, county and state health departments, and non-governmental organizations. In addition to following the curriculum of a track, M.A. students can select elective courses to fulfill one of four concentrations in Archaeological and Forensic Sciences, Bio-cultural Medical Anthropology, Cultural Resource Management, or Heritage Studies.
Our MA offers flexibility, depending on the student’s career plans. Students choose from one of three professional development options: research, internship, and internship-based research (a hybrid of the other two). All three options are expected to have an applied component, but differ in emphasis and setting.

Major Research Areas:
Human biology; bio-cultural medical anthropology; nutrition/diet; growth and development; population genetics; forensic anthropology and human rights; neuroanthropology; stress; immune function; maternal and child health; reproductive health; HIV/AIDS; disasters; water and sanitation; migrant health; health policy; sociocultural and historical anthropology; transnational migration; labor; neoliberal globalization; citizenship; media and visual anthropology; environmental anthropology; urban anthropology; pedagogy and educational anthropology; heritage and memory studies; Florida archaeology; Eastern U.S. prehistory; Mesoamerican archaeology; Mediterranean prehistory; archaeological science; bioarchaeology; cultural resource management; public archeology.

ADMISSION INFORMATION
Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- GRE is required, however, there is no minimum score for admission into the major
- a statement of purpose
- a signed research ethics statement
- at least three letters of recommendation
- a resume or curriculum vitae
- graduate assistant application form (optional)
- writing sample (optional)

CURRICULUM REQUIREMENTS
Total Minimum Hours - 40 credit hours

Core Requirements - 6 hours
Required Track - 24 hours
Optional Concentrations 9-12 hours
Internship – 0-7 hours, depending on the option
Thesis - 6 hours

CORE REQUIREMENTS - 6 hours
ANG 6705  3  Foundations of Applied Anthropology I
ANG 5486  3  Quantitative Methods in Anthropology (or equivalent in another department)

Required Track - 24 hours
Students select from one of the following Tracks:

Archaeology Track
ANG 6198  3  Regional Problems in Methods of Public Archaeology
ANG 6110  3  Archaeological Theory and Current Issues
ANG 6197  3  Public Archaeology
Electives 6  Two electives in Archaeology
Electives 3  One elective in Biological Anthropology
Electives 3  One elective from any graduate seminar in Anthropology
Seminar 3  One graduate seminar outside the Department
Biological Anthropology Track
ANG 6701 3 Contemporary Applied Anthropology
ANG 6766 3 Research Methods in Applied Anthropology
ANG 6511 3 Seminar in Physical Anthropology: Human Variation
ANG 6469 3 Selected Topics in Medical Anthropology OR
ANG 6585 3 Theory in Applied Bioanthropology
Seminars 9 Three additional graduate seminars in Anthropology
Seminar 3 One graduate seminar outside the Department

Cultural Anthropology Track
ANG 6701 3 Contemporary Applied Anthropology
ANG 6766 3 Research Methods in Applied Anthropology
Seminars 15 Five elective graduate seminars in Anthropology
Seminar 3 One graduate seminar outside the Anthropology Department

Medical Anthropology Track
ANG 6701 3 Contemporary Applied Anthropology
ANG 6766 3 Research Methods in Applied Anthropology
ANG 6469 3 Theory and Methods in Medical Anthropology
Seminars 12 Four elective graduate seminars in Anthropology
Seminar 3 One graduate seminar outside the Anthropology Department

Paul D. Coverdell Fellows Program in Applied Anthropology for Returning Peace Corps Volunteers
Students in the Coverdell Program are required to complete internships related to the program of study in underserved American Communities.

For more information on the Fellows Program:
https://www.peacecorps.gov/volunteer/university-programs/coverdell-fellows/

CONCENTRATION REQUIREMENTS (Optional)
Students may select one of the following concentrations:

Concentration in Archaeological and Forensic Sciences - 12 hours
Two required courses (3 credits each), consisting of
ANG 6701 3 Contemporary Applied Anthropology
ANG 6115 3 Seminar in Archaeology: Archaeological Science
ANG 6745 3 Forensic Anthropology OR
ANG 6511 3 Seminar in Physical Anthropology: Forensic Science
Electives 6 Two elective courses (3 credits each; one may be outside Anthropology):

ANG 6189 3 Ancient Diets
ANG 6195 3 Ancient Trade
ANG 6511 3 Seminar in Physical Anthropology: Anthrogenetics
ANB 6536 3 Bioarchaeology
ANG 6745 3 Forensic Anthropology
ANG 6741 3 Intro to Forensic Science
ANG 6511 3 Seminar in Physical Anthropology: Advanced Methods in Forensic Anthropology
ANG 6115 3 Seminar in Physical Anthropology: Soils
ANG 6115 3 Seminar in Physical Anthropology: Technologies for Heritage Preservation

External electives that also qualify (only one can count towards concentration):
Advanced Remote Sensing (GIS 6038C), Remote Sensing Seminar (GIS 6039), Tracer Geochemistry (GLY 6255), Analytical Techniques in Geology (GLY 6285C), Principles of Applied Geophysics (GLY 6475), Principles of Stable Isotope Geochemistry (GLY 6739)
Concentration in Bio-cultural Medical Anthropology - 12 hours
Four graduate medical anthropology courses with the ANG prefix:
ANG 6469 3    Selected Topics in Medical Anthropology: Theory and Methods in Medical Anthropology
ANG 6511 3    Seminar in Physical Anthropology: Theory and Methods of Applied Biological Anthropology
ANG 6511 3    Seminar in Physical Anthropology (e.g. Human Variation, Anthropology of Growth and Development, or Forensic Anthropology)

Or one of the following:
ANG 6469 3    Selected Topics in Medical Anthropology (e.g. Issues in Migrant Health, Anthropology and Development, Reproductive Health, Health & Medical System, Socio-Cultural Aspects of HIV/AIDS)
ANG 5937 2-4  Seminar in Anthropology

Please Note: the Foundations of Medical Anthropology on-line course offered through the School of Sustainability is a service course intended for non-anthropology students and cannot count towards the Applied Anthropology degree.

Concentration in Cultural Resource Management - 9 hours
ANG 6197 3    Public Archaeology
ANG 6115 3    Seminar in Archaeology: Current Issues and Techniques in Cultural Resources Management

One of the following electives (or other as approved by Graduate Director):
ANG 6448 3    Regional Problems in Urban Anthropology: Issues in Heritage Tourism
ANG 6115 3    Seminar in Public Archaeology (e.g. Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods)

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.

Concentration in Heritage Studies - 9 hours
ANG 6436 3    Issues in Heritage Tourism
Electives 6    Two electives from among the following options:
ANG 5395 3    Visual Anthropology
ANG 6081 4    Museum Methods
ANG 6197 3    Public Archaeology
ANG 6436 3    Issues in Heritage Tourism
ANG 6448 3    Regional Problems in Urban Anthropology (topics include Ethnohistory, Museums in Culture, Ethnicity and Public Policy, Heritage Research and Management, Culture and Environmental Resources)
ANG 7487 3    Advanced Quantitative Research Methods in Applied Anthropology

COMPREHENSIVE EXAM
The comprehensive exam requirement is satisfied upon successful completion of Foundation of Applied Anthropology (ANG 6705). Successful completion entails earning a final grade of "B" or better in this course.

The MA offers flexibility, depending on the student’s career plans. Students choose from one of three professional development options, which must be decided in consultation with their major professor before the proposal is delivered. All three options are expected to have an applied component, but differ in emphasis and setting.

- **Research Option** – This option is designed for students who are planning a career in applied research and are considering a Ph.D. degree. The final product is a thesis, which may be delivered as either a traditional thesis or as a peer-reviewed journal article. If an article is submitted, the student must be first author and the journal selected in consultation with the M.A. Committee. The publication must be formally accepted, but not necessarily published, to fulfill this requirement.

- **Internship-based Research Option**: This option is designed for students who are planning a career in applied research and practice. It is designed for students whose thesis research is situated in an Internship setting. A
formal Internship is required, and the final product is a thesis, which may be delivered as either a traditional thesis or a peer-reviewed journal article (same guidelines apply as in the Research option).

- **Internship Option:** This option is designed for students who are planning a career in applied research and practice. A formal Internship is required, and the final product consists of 1) a technical report or installation delivered to the host agency and 2) a substantial Internship report delivered to the M.A. committee. The student must be the first author on the technical report, and it must represent new and original work. The targeted length and substance of the Internship report should be discussed with the M.A. committee and agreement reached in advance.

**INTERNSHIP** – 0-7 hours minimum, depending on the option
- Research Option – no internship hour requirement
- Internship-Based Research Option:
  - ANG 6915 4 Directed Research in Internship
- Internship Option
  - ANG 6915 7 Directed Research in Internship

**THESIS** – 3-6 hours minimum, depending on the option
- Research Option
  - ANG 6917 10 Thesis
- Internship-Based Research Option
  - ANG 6971 6 Thesis
- Internship Option
  - ANG 6971 3 Thesis
  - At least 2 credit hours per semester until thesis is accepted.

**COURSES**
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
APPLIED ANTHROPOLOGY AND PUBLIC HEALTH

Concurrent Degrees
Master of Arts (M.A.)/Master of Public Health (M.P.H.) Degrees

DEGREE INFORMATION

<table>
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<td>Public Health</td>
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<td>Public Health: 42</td>
<td>Contact Information: <a href="http://www.grad.usf.edu">www.grad.usf.edu</a></td>
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<td>Public Health: 51.2201</td>
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<td>Dept. Codes: ANT, DEA</td>
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<td>Major/College: ANT AS / MPH PH</td>
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Concentrations:
Bio-cultural Medical Anthropology (BCM)

MAJOR INFORMATION

The two majors review applicants independently. Application forms for Anthropology and Public Health are completed with each listing both as major areas or study.

After admission to both majors, the Graduate Admissions office instructs the Registrar’s Office to classify the student as concurrently enrolled in anthropology and public health. In choosing which major to apply to first, students should take into consideration the following: requirements in Anthropology for admission are different from in Public Health; admission to one major does not guarantee admission to the other; and of course, the student's interests and career plans. Upon completion of all requirements for the Concurrent Degrees, the student submits separate applications for graduation to Anthropology and Public Health, and is certified for graduation by both majors and receives two diplomas. Concurrent Degree students can also select elective courses to fulfill a concentration in Bio-cultural Medical Anthropology.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- 3.20 undergraduate GPA
- GRE required for consideration, but there is no minimum score
- a statement of purpose
- a signed research ethics statement
- at least three letters of recommendation
- a resume or curriculum vitae
- graduate assistant application form (optional)
- writing sample (optional)
- Also see admission requirements listed for the MPH in Public Health

http://www.cas.usf.edu/
CURRICULUM REQUIREMENTS

M.A. in Applied Anthropology (40 hours)
For specific information on the requirements for the MA in Applied Anthropology (including optional concentrations), please refer the Catalog listing for that major.

ANG 6705 Foundation of Applied Anthropology 3
ANG 6701 Contemporary Applied Anthropology 3
ANG 6766 Research Methods in Applied Anthropology 3

PHC 6050 Biostatistics I (3) or ANG 5486 Quantitative Methods (3) 3

Four graduate level seminars (variable topics) in Anthropology 12
- 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
- Specific seminars should be taken to fulfill specific track requirements for the MA in Applied Anthropology degree (or an optional concentration)

External elective requirement (one graduate level course outside the Department of Anthropology) is fulfilled by a Public Health course 3

Comprehensive examination requirement met by successfully completing ANG 6705 (Foundations of Applied Anthropology). Successful completion entails earning a final grade of “B” or better in this course.

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

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

Paul D. Coverdell Fellows Program in Applied Anthropology for Returning Peace Corps Volunteers
Students in the Coverdell Program are required to complete internships related to the program of study in underserved American Communities.

For more information on the Fellows Program: https://www.peacecorps.gov/volunteer/university-programs/coverdell-fellows/

M.P.H. in Public Health (42 hours)
Requirements include public health core courses, concentration area courses, electives, supervised field placement, comprehensive exam, and special project.

For specific information on the requirements, please refer to the Catalog listing for the MPH in Public Health

COURSES

See http://www.ugs.usf.edu/course-inventory/
APPLIED ANTHROPOLOGY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: December 15
Fall admission only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 46 beyond MA
Level: Doctoral
CIP Code: 45.0201
Dept. Code: ANT
Major/College Codes: APA AS
Effective: 1984

Concentrations:
Archaeological and Forensic Sciences (AAF)
Bio-cultural Medical Anthropology (BCM)
Cultural Resource Management (CRM)
Heritage Studies (HGS)

CONTACT INFORMATION

College: Arts and Sciences
Department: Anthropology
Contact Information: http://anthropology.usf.edu/graduate/

MAJOR INFORMATION

The Ph.D. in Applied Anthropology, initiated in 1984, was the first doctoral major of its kind and has to date awarded more than 140 degrees. The major is designed to prepare students to conduct research, teach, and practice in both academic and nonacademic settings. Students participate in either a structured research internship or independent field research for two consecutive semesters. Students must choose one of four tracks, which guide curriculum and required courses: Archaeology, Biological Anthropology, Cultural Anthropology, or Medical Anthropology. In addition, students can select elective courses to fulfill an optional concentration in Archaeological and Forensic Sciences, Biocultural Medical Anthropology, Cultural Resource Management, or Heritage Studies.

For information regarding the Concurrent Degree Ph.D./MPH with the College of Public Health, see the separate listing under Applied Anthropology and Public Health.

Major Research Areas:
Human biology; biocultural medical anthropology; nutrition/diet; growth and development; population genetics; forensic anthropology and human rights; neuroanthropology; stress; immune function; maternal and child health; reproductive health; HIV/AIDS; disasters; water and sanitation; migrant health; health policy; sociocultural and historical anthropology; transnational migration; labor; neoliberal globalization; citizenship; media and visual anthropology; environmental anthropology; urban anthropology; pedagogy and educational anthropology; heritage and memory studies; Florida archaeology; Eastern U.S. prehistory; Mesoamerican archaeology; Mediterranean prehistory; archaeological science; bioarchaeology; cultural resource management; public archeology.
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- GRE required
- Concurrent Degree applicants (Anthropology/Public Health) must also meet GRE requirements for the MPH
- a statement of purpose
- a signed research ethics statement
- at least 3 letters of recommendation
- a resume or curriculum vitae
- graduate assistant application form (optional)
- writing sample (optional)

CURRICULUM REQUIREMENTS

Total minimum required hours - 46 hours beyond the M.A.

Core Requirements - 3 hours
Track - 24 hours
Electives - 6 hours minimum
External Curriculum Requirement - 6 hours minimum
Internship - 4 hours
Dissertation - 6 hours

  Concentration – Optional – 9-12 hours

CORE REQUIREMENTS - 3 hours
ANG 6705  (3)  Foundations of Applied Anthropology
Must receive a grade of “B” or better. Ph.D. students with a recent (within the past five years) M.A. in Anthropology are not required to take Foundations of Applied Anthropology, although they may do so if their advisor recommends it.

TRACKS - 24 hours
Students select one of the following tracks:

Archaeology Track:
ANG 6198  3  Archaeological Methods
ANG 6110  3  Archaeological Theory and Current Issues
ANG 6197  3  Public Archaeology and
ANG 7487  3  Advanced Quantitative Research Methods and
ANG 6115  3  Seminar in Archaeology: Advanced Archaeological Theory

Biological Anthropology Track
ANG 7487  3  Quantitative Research Methods
ANG 6701  3  Contemporary Applied Anthropology
ANG 6511  3  Human Variation
ANG 6585  3  Theory and Methods in Applied Bioanthropology
ANG 6766  3  Research Methods in Applied Anthropology

Cultural Anthropology Track
ANG 6494  3  Anthropological Theory Today
ANG 6701  3  Contemporary Applied Anthropology
ANG 6766  3  Research Methods in Applied Anthropology
ANG 7704  3  Legal and Ethical Aspects of Applied Anthropology
ANG 7487  3  Quantitative Research Methods
Medical Anthropology Track
ANG 6494 3 Anthropological Theory Today
ANG 6701 3 Contemporary Applied Anthropology
ANG 6766 3 Research Methods in Applied Anthropology
ANG 7704 3 Legal and Ethical Aspects of Applied Anthropology
ANG 7487 3 Quantitative Research Methods
ANG 6469 3 Theory and Methods in Medical Anthropology

CONCENTRATION REQUIREMENTS (Optional, not required) - Students may select one of the following concentrations:

Concentration in Archaeological and Forensic Sciences - 12 hours
Two required courses (3 credits each), consisting of
ANG 6115 3 Archaeological Science
ANG 6511 3 Forensic Anthropology or ANG 6511 Forensic Science

Two elective courses (3 credits each; one may be outside Anthropology) – 6 hours
ANG 6145 3 Ancient Diets
ANG 6193 3 Ancient Trade
ANG 6511 3 Anthrogenetics
ANB 6586 3 Bioarchaeology
ANG 6588 3 Forensic Anthropology
ANG 6515 3 Intro to Forensic Science
ANG 6511 3 Advanced Methods in Forensic Anthropology
ANG 5520 3 Human Osteology
ANG 6115 3 Soils
ANG 6115 3 Technologies for Heritage Preservation

External electives that also qualify (only 1 can count towards concentration):
GIS 6038C Advanced Remote Sensing
GIS 6039 Remote Sensing Seminar
GLY 6255 Tracer Geochemistry
GLY 6285C Analytical Techniques in Geology
GLY 6475 Principles of Applied Geophysics
GLY 6739 Principles of Stable Isotope Geochemistry

Concentration in Bio-Cultural Medical Anthropology -12 hours
Four graduate medical anthropology courses with the ANG prefix:
ANG 6469 Theory and Methods in Medical Anthropology
ANG 6511 Theory and Methods of Applied Biological Anthropology
ANG 6511 Seminar in Physical Anthropology (e.g. Human Variation, Anthropology of Growth and Development, Forensic Anthropology)
ANG 6566, 6569, 6469, or 5937 (e.g. Nutritional Anthropology, Socio-Cultural Aspects of HIV/AIDS, Issues in Migrant Health, Anthropology and Development, Reproductive Health, ANG 6404 Health and Medical Systems

Please Note: the Foundations of Medical Anthropology on-line course offered through the School of Sustainability is a service course intended for non-anthropology students and cannot count towards the Applied Anthropology degree.

Concentration in Cultural Resource Management -9 hours
Required:
ANG 6197 3 Public Archaeology
ANG 6115 3 Seminar in Archaeology; Current Issues & Techniques in Cultural Resource Management

One of the following electives:
ANG 6448 Regional Problems in Urban Anthropology: Issues in Heritage Tourism
(or other as approved by Graduate Director)
ANG 6115 Topics in Public Archaeology (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.

Concentration in Heritage Studies - 9 hours
Required
ANG 6437 3 Selected Topics in Applied Anthropology: Issues in Heritage Studies

Two electives from among the following options:
ANG 5395 3 Visual Anthropology
ANG 6081 4 Museum Methods
ANG 6197 3 Public Archaeology
ANG 6436 3 Issues in Heritage Tourism
ANG 6448 3 Regional Problems in Urban Anthropology (*Topics include ‘Ethnohistory,’ ‘Museums in Culture,’ ‘Ethnicity and Public Policy,’ ‘Heritage Research and Management,’ ‘Culture and Environmental Resources,’)
ANG 6676 3 Seminar in Anthropological Linguistics
(When the topic is ‘Language and Culture’ or ‘Language and Racism’)
ANG 7487 3 Quantitative Research Methods

Electives - 6 hours minimum
Three elective graduate-level Anthropology courses. Two elective graduate-level Anthropology courses for students in the medical anthropology track.

External Curriculum Requirement - 6 hours minimum
The external curriculum requirement is designed to promote interdisciplinary perspectives. Students are expected to enroll in a minimum of two (2) or a maximum of three (3) graduate-level courses in departments other than Anthropology, selected on the basis of professional interests and in consultation with the major advisor (if the student takes only two external courses, he/she must take an additional anthropology elective). Students who enter the Ph.D. program with post-baccalaureate degrees in disciplines other than Anthropology may be able to use that expertise to satisfy the requirement, after consultation with the major advisor and approval of the Graduate Director. In these cases, the remaining credit hours will be fulfilled through additional coursework in Anthropology.

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.

Internship and Qualifying examination - 4 hours minimum
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).

Paul D. Coverdell Fellows Program in Applied Anthropology for Returning Peace Corps Volunteers

Students in the Coverdell Program are required to complete internships related to the program of study in underserved American Communities.

For more information on the Fellows Program:
https://www.peacecorps.gov/volunteer/university-programs/coverdell-fellows/
Dissertation - 6 credits minimum
ANG 7980 Doctoral Dissertation. Dissertation, based on research or internship.

COURSES

See http://www.ugs.usf.edu/course-inventory/
APPLIED ANTHROPOLOGY AND PUBLIC HEALTH

Concurrent Degrees
Doctor of Philosophy (Ph.D.)/Master of Public Health (M.P.H.) Degrees

DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Refer to individual Majors for deadlines</th>
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<td>International applicant deadlines:</td>
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<td><a href="http://www.grad.usf.edu/majors">http://www.grad.usf.edu/majors</a></td>
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| Minimum Total Hours:                   |
| 46 – Applied Anthropology              |
| 42 – Public Health                     |

| Level:                                  |
| Doctoral and Masters                   |

| CIP Code:                               |
| Applied Anthro: 45.0201                 |
| Public Health: 51.2201                  |

| Dept. Code:                             |
| ANT, DEA                                |

| (Major/College Codes):                  |
| APA AS, MPH PH                          |

| Concentrations:                         |
| Bio-cultural Medical Anthropology       |

CONTACT INFORMATION

| Colleges:                                |
| Arts and Sciences                       |
| Public Health                           |

| Departments:                            |
| Anthropology, Public Health             |

| Contact Information:                    |
| www.grad.usf.edu                        |
| http://anthropology.usf.edu/graduate/   |

MAJOR 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 majors review applicants independently. After admission to both majors, the Graduate Admissions office instructs the Registrar’s Office to classify the student as concurrently enrolled in Anthropology and Public Health. In choosing which major 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 major does not guarantee admission to the other; and of course, the student’s interests and career plans. Upon completion of all requirements for the Concurrent Degrees, the student submits separate applications for graduation to Anthropology and Public Health, and is certified for graduation by both majors and receives two diplomas. Concurrent Degree students can also select elective courses to fulfill a concentration in Bio-cultural Medical Anthropology.
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- GRE required, no minimum score
- a statement of purpose
- a signed research ethics statement
- at least 3 letters of recommendation
- a resume or curriculum vitae
- graduate assistant application form (optional)
- writing sample (optional)
- see the Catalog listing for admission requirements for each major
- admission to any of the Concurrent Degree programs will consider letters of recommendation, past experience, goal statement and availability of faculty

CURRICULUM REQUIREMENTS

Ph.D. in Applied Anthropology - 46 hours beyond the M.A.

For specific information on the requirements for the Ph.D. in Applied Anthropology (including optional concentrations), please refer the Catalog listing for that major

Paul D. Coverdell Fellows Program in Applied Anthropology for Returning Peace Corps Volunteers

Students in the Coverdell Program are required to complete internships related to the program of study in underserved American Communities.

For more information on the Fellows Program:
https://www.peacecorps.gov/volunteer/university-programs/coverdell-fellows/

M.P.H. in Public Health - 42 hours

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

For specific information on the requirements please refer to the Catalog listing for the MPH in Public Health

COURSES

See http://www.ugs.usf.edu/course-inventory/
BIOLOGY

Master of Science (M.S.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
- Fall: November 30
- Spring: July 1

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 26.0101
Dept. Code: BIO
Major/College Codes: BIO AS
Approved: 1965

Concentrations:
- Cell Biology and Molecular Biology (CMB)
- Ecology and Evolution (EEV)
- Environmental and Ecological Microbiology (EVM)
- Physiology and Morphology (PMY)

CONTACT INFORMATION

College: Arts and Sciences
Departments: Cell Biology, Microbiology, and Molecular Biology (CMMB), Integrated Biology (IB)
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Department of Biology was expanded into the Department of Cell Biology, Molecular Biology and Microbiology (CMMB) and the Department of Integrated Biology (IB) in 2009. Each Department has its own Chair and Graduate Director and offers students a Master of Science in Biology with a specific concentration associated with either CMMB or IB. There is no general Biology MS major. The CMMB and IB Departments are located in modern, well-equipped buildings. Research in the CMMB Department is done by faculty housed in Interdisciplinary Science Building and the Bio-Science Faculty building (BSF), and most of the research within the IB Department is conducted by faculty housed in the Science Center building (SCA). Because of the interdisciplinary aspect of most research projects, faculty and graduate students often work together on broad training research projects that bring together many of the traditionally separate areas of biology. Many of the faculty within CMMB and IB are involved in cooperative research with their colleagues in Chemistry, Public Health, Nursing, Medicine, Geology, Psychology, Geography, Marine Science, and Environmental Science. Often CMMB and IB 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, both CMMB and IB support many graduate students as Teaching Assistants. CMMB and IB values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members depending on an individual faculty members funding. Numerous scholarship opportunities are also offered on a competitive basis through the USF Office of Graduate Studies.

Application to the Biology Major is through one of the two departments, with students selecting a formal Concentration. Refer to the Concentration listing in the Catalog for specific information and requirements.
**Major Research Areas:** Cell Biology, Molecular Biology, Signal Transduction and Gene Regulation, Cancer Biology, Developmental Biology, Microbiology, Ecology and Evolution, Environmental and Ecological Microbiology, Physiology and Morphology

**ADMISSION INFORMATION**

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- Prospective students must apply to the Biology MS major with a specific concentration via the online application process through the USF Office of Graduate Admissions.
- Must have 3.00 GPA last 60 hours of B.S. degree
- GRE: Preferred scores of 500V, 600Q, 4.5AW prior to August 1, 2011; GRE: Preferred scores of 153V, 148Q, 4.5AW for GRE revised general test taken after August 1, 2011
- All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score a minimum of at least 570 on the paper based test or a minimum total score of 79 on the internet based test on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.
- For acceptance into the IB Department, acceptance by a faculty member in IB is MANDATORY. IB encourages applicants to contact faculty via email to indicate an interest in the research being conducted in their laboratory. IB will make every effort to pair potential graduate students with appropriate faculty; however, it is recommended that applicants make direct contact with individual faculty.
- It is expected that candidates for the M.S. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.

**Applying to the Department of Cell Biology, Microbiology and Molecular Biology**

Students interested in attending graduate studies within the CMMB Department should visit the CMMB website that can be accessed from the main USF site and review the current CMMB faculty. It is recommended that potential students consider at least 2-3 CMMB faculty that they would be interested in working with and communicate this information in their letter of application. It is also recommended that potential students contact the CMMB Graduate Director as well as the individual faculty members they are interested in working with via email. Such communication will facilitate the assignment of the laboratory rotations that CMMB students will participate in during their first semester of residency and also allow the applicant to determine whether the desired faculty member has positions available in the laboratory. All students admitted to the Masters concentration in Cell Biology and Molecular Biology must establish a Graduate Supervisory Committee. The Graduate Committee shall constitute the major professor and at least two additional credentialed faculty. At least one of the committee members must be a faculty member at USF. Supervisory committee must be formed within two semesters after matriculation. Refer to Committee information in the University Requirements Section of the Catalog for more information.

The CMMB Graduate Director, CMMB Chair, and the College Associate Dean (or designee) must approve the Graduate 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, the student shall enroll for two (2) hours of research credit each semester (other than summer semester), until eligible to enroll in thesis credits.

**Applying to the Department of Integrative Biology**

Students interested in attending graduate studies within the IB Department should contact potential major professors to communicate their research ideas and establish that the professor will consider the student’s application. The IB
Department requires that all students admitted into the MS in Biology major have the approval of a major professor. 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 Integrative Biology Department. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The IB Graduate Director, IB Chair, and the College Associate Dean (or designee) 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, the student shall enroll for a minimum of two (2) hours of research credit each semester (other than summer semester), until eligible to enroll in thesis credits.

Materials necessary for a complete application are listed below.

The following items should be submitted in the envelope provided to:

Integrative Biology Graduate Office
Attention: IB Graduate Director
University of South Florida
4202 E. Fowler Ave – SCA110
Tampa, FL 33620-5150

CMMB Graduate Office
Attention: CMMB Graduate Director
University of South Florida
4202 E. Fowler Ave, ISA 2015
Tampa, FL 33620-5150

1. 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. Thus, applicants need only to secure transcripts from other institutions for your application packet.

2. Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students shall complete a Student Recommendation Form that can be found on the CMMB and IB website and submit it to the recommenders.

3. 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 CMMB or IB faculty members. In the essay please list 2-3 CMMB or IB faculty members that you would like to have review your file. Acceptance into the IB graduate major requires the identification of specific faculty who are willing to direct your research. This final requirement does not apply to students wishing to study in the CMMB Department.

4. Applicant must complete the Application for Teaching Assistantship (TA) Form that can be found on the CMMB or IB website if they wish to be considered for a TA position. Applicants who do not return this form will not be considered for a teaching position. Applicants should attach a resume to the Application for Teaching Assistantship (TA) Form that highlights any previous teaching experience.

5. 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. Official GRE scores: This exam must have been taken within the last five years.
CURRICULUM REQUIREMENTS

The thesis based M.S. in Biology Major requires successful completion of the following:

1. structured coursework
2. an oral qualifying exam
3. research thesis
4. comprehensive final examination

The Master’s Degree Requirements should be completed in two to three years. The CMMB and IB Departments require all graduate work applied toward the completion of degree requirements be completed within a five-year period after matriculation. Thesis research should be publishable and students are encouraged to publish their findings. Students must choose a specific concentration in the M.S. degree that will be completed within either the CMMB or IB Department. The specific requirements for the Master of Science (M.S.) and the specific concentrations are provided below.

1. Credit hour requirement: A total of 30 semester hour credits beyond the Baccalaureate Degree is required. (Including BSC 6910, BSC 6971, BSC 6935, and other structured and unstructured courses approved by CMMB or IB).

2. Students admitted to the CMMB Department must complete three laboratory rotations during their first semester of residency.

3. Successful completion of the oral comprehensive qualifying 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.

4. Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director.

5. A minimum of eight (8) thesis research credit hours (BSC 6971).

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.

Degree Progress
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 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 until a Supervisory Committee has been formed and completed the oral qualifying examination. A student who enrolls in courses entitled Thesis: Master’s but does not submit a thesis will not be certified for graduation.

CORE REQUIREMENTS

M.S. in Biology Core (4 credit hours)
BSC 6930 Lectures in Contemporary Biology (1)

Enrollment in this course is required for at least two semesters of residency. (Note: Students in the Integrated Biology Department are required to enroll in this course for an additional semester for a total of three semesters)
CONCENTRATION REQUIREMENTS

CELL BIOLOGY AND MOLECULAR BIOLOGY (CMM)
Offered from the Department of Cell Biology, Molecular Biology and Microbiology (CMMB)
Description: See program description.

Concentration Requirements
BSC 6932 Advances in Scientific Review 2
PCB 6956 Scientific Grant Writing 3
PCB 6930 Advances in Cell and Molecular Biology 1

Electives* (minimum of 6 credit hours)
MCB 5206 Public Health and Pathogenic Microbiology 3
MCB 5655 Applied and Environmental Microbiology 3
PCB 5235 Principles of Immunology 3
PCB 6236 Advanced Immunology 4
MCB 5815 Medical Mycology 3
BSC 5931 Molecular Microbial Ecology 3
BSC 5931 Prokaryotic Molecular Genetics 3
MCB 5410 Cellular Microbiology 3
PCB 5256 Developmental Mechanisms 3
BSC 5420 Genetic Engineering and Recombinant DNA Technology 3
PCB 5616 Molecular Phylogenetics 3
PCB 6255 Molecular Genetics 3
PCB 6107 Advanced Cell Biology 4
BSC 5931 Eukaryotic Genomics 3
*The supervisory committee may approve additional courses not listed here.

ACCELERATED NON-THESIS B.S./M.S. PROGRAM OPTION
This program allows B.S. majors to take graduate courses for the elective part of the Biology degree and apply them to a non-thesis M.S. degree with a Biology Major. Successful students will be able to earn the M.S. degree in two additional semesters beyond the completion of the B.S. degree. This accelerated program shares 12 credits between already existing degrees/concentrations:

B.S. in Cell and Molecular Biology M.S in Biology, Concentration in Cell and Molecular Biology (non-thesis option)

Description and Requirements
Biology majors who have completed the following courses may apply to this program:
PCB3023 Cell Biology
PCB3063 Genetics
MCB3410 Cell Metabolism
PCB4024 Molecular Biology of the Cell or PCB4026 Molecular Biology of the Gene

Students who have been admitted to the accelerated program but subsequently fail to achieve a 3.0 GPA in the last 60 hours of their B.S. degree, or who do not complete at least 30 of their last 60 hours at USF, will be dismissed.

Once accepted, students must meet with BioAdvise (the advising office for biological sciences within the College of Arts and Sciences) to prepare an action plan to complete the B.S. /M.S. accelerated program. This requires them to take all the courses required for the B.S. in Biology: Concentration in Cell and Molecular Biology. Students may take up to 12 credits of graduate courses as electives in CMMB and apply those courses to both the B.S. and M.S. degrees. They will not be admitted as graduate students until they have completed their B.S. degree and met all the requirements for admission to CMMB as graduate students. The action plan should include a schedule of coursework to complete their B.S. degrees and a date in their last year in the B.S. program to take the GRE.
For fall admission to the M.S. portion of the accelerated program, all application materials must be received by February 15 of the same year. For spring admission, the deadline is August 1 of the previous year. Application materials are the same as the M.S. in Biology:

1. Two official transcripts of undergraduate work from other institutions. Applicants need not supply USF transcripts.
2. Three letters of recommendation
3. A brief essay stating your professional goals
4. GRE scores must be sent to USF directly from the testing agency (USF institution code is 5828).

**Graduate Degree Requirements**

Students admitted into the M.S. portion of the program must complete all the requirements for the M.S. degree (non-thesis) within three semesters of admission. The requirement is 30 hours of graduate work with at least 16 of these hours completed at the 6000 level; 26 hours must be formally structured courses; and at least 15 hours must be in CMMB courses. Students will be required to take 3 core-courses from the list below as part of these 26 hours. Of the required 26 hours, 9 hours will be derived from the core-CMMB graduate courses listed below (see associated curriculum). These requirements can be partially met by up to 12 hours of graduate courses taken as undergraduates. Any graduate class taken outside of CMMB must be approved by the CMMB Graduate Director. Students should be aware that a B grade or better is required for every graduate class applied to the MS portion of their degree. In addition, students will be required to pass an oral qualifying exam based on a review paper submitted in their final semester. Students must form a committee as part of their action plan to complete their graduate work. This committee will be comprised of at least 3 CMMB faculty, and will serve as the examination committee for the review paper required as part of the M.S. portion of their degree. Upon approval of that paper, students must successfully complete a comprehensive oral exam by their committee.

**Timeline and benchmarks:**

1. Completion of prerequisite upper division courses and application to the accelerated program. Typically students will be in their junior year.
2. Acceptance into the program and an action plan within a semester of application.
3. Students will take up to 12 credits of graduate credit in CMMB courses following acceptance into the program. Typically, these courses will be taken in the latter half of the junior year and in the senior year. BioAdvise will monitor the progress of the students and ensure they follow their action plan. Students who do not complete at least 9 hours of graduate work by graduation will be dropped from the accelerated M.S. program.
4. GRE exams will be taken in a timely manner so scores will be available for admission to the M.S. portion of the program. Students who do not complete the GRE in time will not be admitted to the accelerated M.S. program.
5. Students must apply for admission to the M.S. portion of the program in a timely manner (Fall admission deadline is February 15, Spring deadline is August 1).
6. Students admitted to the accelerated program must form a committee prior to the beginning of their first semester in the M.S. portion of the program and must continue to follow the action plan which will be monitored by BioAdvise.
7. Students admitted to the accelerated M.S. program must complete the requirements within three semesters or will be dismissed from the program.
Model Curriculum for Accelerated Non-thesis M.S./B.S.

**Year 1**
BSC 2010 and BSC 2011 with labs 8

**Year 2**
MCB 3410 – Cell Metabolism 3
PCB 3063 – Genetics and lab 4
PCB 3023 – Cell Biology and lab 4

**Year 3**
PCB 4024 – Molecular Biology of the Cell 3
PCB 4026 – Molecular Biology of the Gene 3
3 hour graduate elective structured course (5000) 3

**Year 4**
9 hour graduate elective courses (5000 or 6000) 9

**Year 5**
18 hour graduate courses
9hr of which must be derived from the list below

BSC6932 – Bioinformatics 1-4
BSC6932 – Virology 1-4
PCB6525 – Molecular Genetics 3
BSC5425 – Genetic Engineering 3
PCB6236 – Advanced Immunology 4
BSC6932 – Prokaryotic Molecular Genetics 1-4

4 hour non-structured (seminar, independent study, laboratory research)
Oral exam and review paper done at the end of year 5

ECOLOGY AND EVOLUTION (EEV)

**Offered from the Department of** Integrative Biology (IB)

**Description:** See Program listing.

**Concentration Requirements** –17 hours minimum
Seventeen (17) credit hours of course work selected from the list below: The graduate student, major professor and Graduate committee will establish the specific courses for each graduate student. Other courses, not listed below, can be substituted if approved by the Graduate Committee. Specific course training beyond this point will be determined in each individual case by the special needs of the student as decided by the student’s Graduate Committee.

BSC 5931 – Conservation Biology 3
BOT 5185 – Marine Botany 4
PCB 6455 – Statistical Ecology 3
PCB 6456 – Biometry I 4
PCB 6458 – Biometry II 3
BSC 5931 – Comparative Approaches in Evolution 3
PCB 6426 – Population Ecology 3
ZOO 5463 – Herpetology 4
ZOO 5456 – Ichthyology 4
BSC 6932 – Advances in Population Biology 1
BSC 6932 – Advances in Ichthyology  
BSC 6932 – Advances in Herpetology  
BSC 6932 – Advances in Marine Ecology  
BSC 6932 – Scientific Writing  
BSC 6932 – Restoration Ecology  
BSC 6447 – Community Ecology  
PCB 6933 – Seminar in Ecology (variable credit)

**ENVIRONMENTAL AND ECOLOGICAL MICROBIOLOGY (EVM)**

*Offered from the Department of Integrative Biology*

**Description:** See Program listing.

**Concentration Requirements** – 17 hours minimum

A minimum of 17 credit hours of course work selected from the list below. The graduate student, major professor and graduate committee will establish the specific courses for each graduate student. Other courses, not listed below, can be substituted if approved by the Graduate Committee. Specific course training beyond this point will be determined in each individual case by the special needs of the student as decided by the student’s Graduate Committee. Graduate students concentrating in the area of Environmental and Ecological Microbiology will select from the following list of courses:

- MCB 5206 – Public Health and Pathogenic Microbiology 3
- MCB 5655 – Applied and Environmental Microbiology 3
- PCB 5235 – Principles of Immunology 3
- MCB 6930 – Seminar in Applied and Ecological Microbiology 1
- PCB 6525 – Molecular Genetics 3
- BSC 5931 – Genomics 4
- PCB 6456 – Biometry I 4
- PCB 6458 – Biometry II 3
- PCB 6455 – Statistical Ecology 3
- BSC 6932 – Advances in Environmental Ecology 1

**PHYSIOLOGY AND MORPHOLOGY (PMY)**

*Offered from the Department of Integrative Biology*

**Description:** See Program listing.

**Concentration Requirements** – 17 hours minimum

A minimum of 17 credit hours of course work selected from the list below. The graduate student, major professor and graduate committee will establish the specific courses for each graduate student. Other courses, not listed below, can be substituted if approved by the Graduate Committee. Specific course training beyond this point will be determined in each individual case by the special needs of the student as decided by the student’s Graduate Committee. Graduate students concentrating in the area of Environmental and Ecological Microbiology will select from the following list of courses:

- MCB 5206 – Public Health and Pathogenic Microbiology 3
- MCB 5655 – Applied and Environmental Microbiology 3
- PCB 5235 – Principles of Immunology 3
- MCB 6930 – Seminar in Applied and Ecological Microbiology 1
- PCB 6525 – Molecular Genetics 3
- BSC 5931 – Genomics 4
- PCB 6456 – Biometry I 4
- PCB 6458 – Biometry II 3
- PCB 6455 – Statistical Ecology 3
- BSC 6932 – Advances in Environmental Ecology 1
M.S. in Biology Non-Thesis Option

Comprehensive Oral Qualifying Examination. A comprehensive examination (thesis proposal, seminar/presentation and defense of thesis proposal) is required for all master’s students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two semesters 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.

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 offered by Biology. A review paper of a topic approved by the supervisory committee is required as well as successful completion of the comprehensive oral qualifying exam after all course work has been completed. For non-thesis master’s students, this exam will occur at the end of the program of study.

All thesis-based Master’s Degree students must present a seminar to the Department of either CMMB or IB and must be enrolled in BSC 6935, during the final semester. The seminar should be a concise summary of the CMMB or IB 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
For updated list of courses see: http://www.ugs.usf.edu/course-inventory/
CANCER BIOLOGY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 15

Domestic: January 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 96
Level: Doctoral
CIP Code: 26.0911
Dept. Code: BIO
Major/College Codes: CNB AS
Approved: 2001

CONTACT INFORMATION

College: Arts and Sciences
Department: Cell Biology, Microbiology, and Molecular Biology (CMMB)

Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Cancer Biology Major consists of interdisciplinary training in multiple fields emphasizing the facets which impact cancer. This will prepare students to enter the emerging new technological workforce required to implement biomedical advances that will have a key impact on global health and yield significant societal advantages.

The Major is a joint endeavor between the Moffitt Cancer Center and the University of South Florida. Tremendous advances in the detection and treatment of cancer has occurred through basic research and translational medicine, yet cancer continues to adversely affect millions of people worldwide in terms of quality of life, life span, and economic burden. The Moffitt Cancer Center located at the University of South Florida is a leading institution of basic research, clinical research, and patient treatment with a focused mission "to contribute to the prevention and cure of cancer." The Moffitt Cancer Center is officially designated as a Comprehensive Cancer Center by the National Cancer Institute of the National Institutes of Health.

The Cancer Biology Ph.D. Major’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. Major emulates the Moffitt Cancer Center and eliminates these boundaries. Students receive cancer oriented training in multiple areas include: molecular biology, immunology, functional genomics, bioinformatics, drug discovery & development, cancer genetics, cancer prevention & control, cancer therapeutics, cell biology, biochemistry, and proteomics.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- Extensive background in field of biology or chemistry
- GRE required for full consideration
- GPA of at least 3.00 or greater
- Advanced coursework and research experience preferred
CURRICULUM REQUIREMENTS

All students are required to successfully complete the Cancer Biology Major Core Courses. Dissertation Committees may require students to take additional coursework 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 3.00 (B) in order to remain in good standing.

Stipends
All Cancer Biology Ph.D. students in good standing will receive a highly competitive stipend. All students also receive student health insurance coverage and direct payment in full of all required tuition and required fees. Please visit the Program’s website for current stipend levels.

Total Minimum Hours: 96 credit hours

CORE REQUIREMENTS

Required Cancer Biology Core Courses 16 hours minimum
- BSC 6457 Cancer Research Techniques 2
- PCB 6230 Basics of Molecular Oncology 3
- PCB 6231 Cancer Immunology 4
- PCB 6205 Cancer Genomics and Drug Discovery 3
- PCB 6521 Cancer Genetics 3
- PCB 6932 Bioethics for Cancer Researchers 1

Lab Rotations 2 Hours minimum
- PCB 6910 Cancer Laboratory Rotations 1-3

During the first year, students will be required to complete two or three laboratory rotations according to their interest. Laboratory rotations may be for a full semester or 10 weeks for students that choose to do three rotations. Students doing rotations will need to enroll in the laboratory rotation course. If a student has not chosen a major professor after two semesters, they may enroll in an additional summer rotation. Rotations have several purposes. The foremost is to help the students choose a compatible major professor and an exciting research project. A second purpose is for students to develop necessary technical skills. Students will be evaluated by the host professor and the Graduate Advisor will assign a grade to each student at the end of the semester.

Other Course Requirements: 18 Hours minimum
- BSC 7911 Directed Research 4-12
- PCB 6931 Advances in Cancer Biology 4-12
- PCB 6930 Current Topics in Oncology 4-8

Optional Cancer Biology Courses: 1-6
- BCS 6939 Selected Topics in Cancer Biology 1-6

Qualifying Exam
The required qualifying exam consists of a written research proposal and an oral defense of the proposal by the student.

Dissertation 24 hours minimum
- BSC 7980 Dissertation
Prior to the dissertation defense, students must have an original first-author research report accepted for publication in a peer reviewed scientific journal.

Other Requirements 36 hours minimum
Remaining credit hours required to meet the 96 hour minimum for graduation will consist of additional Dissertation hours (BSC7980), Selected Topics in Cancer Biology (BCS6939), and/or Program approved electives.

COURSES - See http://www.ugs.usf.edu/course-inventory/
CELL AND MOLECULAR BIOLOGY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Domestic
Fall: January 1
Spring: August 1
Summer: No Admission

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 90
Level: Doctoral
CIP Code: 26.0406
Dept Code: BCM
Major/College Codes: CBO AS
Implemented: 2014

CONTACT INFORMATION

College: Arts and Sciences
Department: Cell Biology, Molecular Biology and Microbiology (CMMB)

Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Major Research Areas: Cell Biology, Molecular Biology, Cancer Biology, Signal Transduction and Gene Regulation, Developmental Biology, Applied and General Microbiology

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- 3.00 GPA last 60 hours of B.S. degree.
- GRE: 57th percentile Verbal, 35th percentile Quantitative, 73rd percentile AW
- All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score a minimum of at least 570 on the paper based or a minimum total score of 79 on the internet-based test TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.
- It is expected that candidates for the Ph.D. degree will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.
- Interview
- Personal Statement of goals, experience
- Three letters of recommendation
CURRICULUM REQUIREMENTS

Total Minimum Program Hours 90

Core Requirements 6 Hours
- PCB 6525 Molecular Genetics 3
- PCB 6956 Scientific Grant Writing 3

Other Required Courses 7 Hours
- PCB 6920 Advances in Cellular and Molecular Biology 1
- BSC 6930 Lectures in Contemporary Biology (1) taken four times 4
- PCB 6093 Advances in Scientific Review 2

Electives* 6 hours minimum
Selected from:
- PCB 5616 Molecular Phylogenetics 3
- PCB 6107 Advanced Cell Biology 4
- BSC 5425 Genetic Engineering and Recombinant DNA Technology 3
- MCB 5206 Public Health & Pathogenic Microbiology 3
- PCB 6236 Advanced Immunology 4
- PCB 5256 Developmental Mechanisms 3
- BSC 6932 Selected Topics 1-4
*Classes not on this list may be used with the approval of the CMMB Graduate Director

Research Requirements 71 hours minimum
- BSC 7910 Directed Research 32 hours minimum
- BSC 7980 Dissertation Research 38 hours minimum
- BSC 7936 Ph.D. Seminar 1 hour

Qualifying Exams
All students in the Cell and Molecular Biology Ph.D. program must complete a written and oral qualifying examination.

The written exam shall be in the format of a grant proposal and contain the following sections:
- Abstract [300 words]
- Specific Aims [1 page]
- Background and Significance of topics [4-5 pages]
- Proposed research program (conducted over 3-year period) [9-10 pages]
- Bibliography (no page limit)

The length of the proposal shall be no more than 15 pages (the abstract and bibliography does not count in the page limit). The topic of the exam shall meet the following guidelines:
- The written proposal cannot be based in the same model organism that the student will use to carry out their dissertation research
- The written proposal cannot be based on the analysis of the same gene/protein that the student will investigate during their dissertation research
- The written proposal cannot be based on the analysis of the same pathway that the student will investigate during their dissertation research

The oral exam is centered around a formal dissertation proposal presentation, followed by a period of questioning by the dissertation advisory committee.

Admission to Candidacy
The doctoral student is eligible for admission to candidacy after completing structured course requirements, passing the qualifying examinations and approval by the supervisory committee. Appropriate forms to document promotion to candidacy must be completed and to the Office of Graduate Studies. 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 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 38. Students not admitted to candidacy are not eligible to enroll in BSC 7980.

Dissertation Requirements

BSC 7980 Dissertation Research
The dissertation of all graduate students admitted to a graduate degree program at the University of South Florida must conform to the guidelines of the Handbook for Graduate Thesis and Dissertations available from the USF Office of Graduate Studies (http://www.grad.usf.edu/thesis.asp).

Doctoral Seminar and Defense
All doctoral students must present a public seminar to the CMMB Department and must be enrolled in BSC 7980, during the semester in which the seminar is given. 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 advisory 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 advisory committee. Following the defense, students will make any editorial modifications to the dissertation as recommended by the advisory committee and submit the dissertation to the Office of Graduate Studies.

Other Requirements
1 Scientific Publication
2 presentations at Scientific Meetings

Course Sequence

Fall year 1
- BSC7910 Directed Research (2)
- BSC6093 Advances in Scientific Review (2)
- PCB6920 Advances in Cellular & Molecular Biology (1)
- BSC6930 Lectures in Contemporary Biology (1)
- PCB6525 Molecular Genetics (3)

Spring year 1
- BSC7910 Directed Research (2)
- BSC6956 Scientific Grant Writing (3)
- Elective (3)
- BSC6930 Lectures in Contemporary Biology (1)

Summer year 1
- BSC7910 Directed Research (6)

Fall year 2
- BSC7910 Directed Research (5)
- Elective (3)
- BSC6930 Lectures in Contemporary Biology (1)

Spring year 2
- BSC7910 Directed Research (8)
- BSC6930 Lectures in Contemporary Biology (1)

Summer year 2
- BSC7910 Directed Research (6)

Fall year 3*
- BSC7910 Directed Research (9)

*students should advance to candidacy by the close of the Fall of year 3. Until candidacy is attained, students must enroll in BSC 7910. Once candidacy has been achieved, students must enroll in BSC 7980, starting with the semester following admission to candidacy.

Fall year 4
- BSC7980 Doctoral Dissertation (9)

*students should advance to candidacy by the close of the Fall of year 3. Until candidacy is attained, students must enroll in BSC 7910. Once candidacy has been achieved, students must enroll in BSC 7980, starting with the semester following admission to candidacy.

Spring year 3
- BSC7980 Doctoral Dissertation (9)

Summer year 3
- BSC7980 Doctoral Dissertation (6)

Fall year 4
- BSC7980 Doctoral Dissertation (9)
Spring year 4
BSC7980 Doctoral Dissertation (8)
BSC7936 Ph.D. Seminar (1)

*Students are expected to finish in their 4th year but some may require additional time

COURSES
For an updated list of course offerings see: http://www.ugs.usf.edu/course-inventory/
CHEMISTRY (NON-THESIS OPTION)

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Spring: October 1

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 40.0501
Dept. Code: CHM
Major/College Codes: CHA AS
Approved: 1985

CONTACT INFORMATION

College: Arts and Sciences
Department: Chemistry
Contact Information: www.grad.usf.edu
Other Resources: http://chemistry.usf.edu

MAJOR 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 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 low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

Major Research Areas:

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below. Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- a baccalaureate degree in Chemistry or a closely related discipline.
- a preferred minimum score of 149 V (430/800, 47th percentile) and 147 Q (570/800, 28th percentile) on the GRE (the Chemistry subject exam is not required, but recommended).
- a minimum of a 3.00 grade point average (based on a 4.00 scale) in all undergraduate coursework, as verified by an official transcript from the applicant's undergraduate institution.
- at least three letters of recommendation from professionals familiar with the student's academic background.
- Applicants whose native language is not English must obtain at least a score of 79 on the Internet-based Test of English as a Foreign Language (TOEFL).
CURRICULUM REQUIREMENTS

Total Minimum Hours – 30 Credit Hours (Post-Baccalaureate)
Twenty-six hours of formally structured courses, sixteen hours of which must be at the 6000 level, as approved by the student’s Supervisory Committee.

Core Requirements – 6 Credit Hours
CHM 6935 3 credits  Graduate Seminars in Chemistry
CHM 6978 3 credits  Advanced Research in Chemistry

Electives - 24 Credit Hours
Students may select from the following list of 5000 or 6000 level courses in the Chemistry Department and/or related departments, such as Public Health, Education, Chemical Engineering, Physics, Biology, and Mathematics, with advisement of the student’s Supervisory Committee.

BCH 5045 3 credits  Biochemistry Core Course
BCH 5105 1-3 credits  Biochemistry Laboratory Rotations
CHM 5225 3 credits  Advanced Organic Chemistry I
CHM 5226 3 credits  Advanced Organic Chemistry II
CHM 5452 3 credits  Polymer Chemistry
CHM 5621 3 credits  Principles of Inorganic Chemistry
CHM 5931 1-3 credit(s)  Selected Topics in Chemistry
CHM 6036 3 credits  Chemical Biology
CHM 6150 3 credits  Advanced Analytical Chemistry
CHM 6235 3 credits  Spectroscopic Analysis of Organic Compounds
CHM 6250 3 credits  Advanced Organic Chemistry I: Synthesis
CHM 6263 3 credits  Advanced Organic Chemistry II: Physical-Organic
CHM 6279 3 credits  Introduction to Drug Discovery
CHM 6936 1 credit  Chemistry Colloquium
CHM 6938 1-3 credit(s)  Selected Topics in Chemistry
CHM 6945 3 credits  Investigating Chemical Education Research in the United States

Comprehensive Exam
M.A. students are required to prepare a review article that requires integration of topics covered in multiple courses. The topic for the review must be approved by the student’s advisor and Supervisory Committee. While there is no requirement to orally present the article to the Supervisory Committee, the student may opt for an oral presentation. The review paper will serve as the final comprehensive examination required by the University.

COURSES
See http://www.ugs.usf.edu/course-inventory/
CHEMISTRY

Master of Science (M.S.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Spring: October 1

Minimum Total Hours: 30
Level: Masters
CIP Code: 40.0501
Dept. Code: CHM
Major/College Codes: CHM AS
Approved: 1965

CONTACT INFORMATION

College: Arts and Sciences
Department: Chemistry
Contact Information: www.grad.usf.edu

MAJOR 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 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 low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

Major Research Areas:

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below. Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- a baccalaureate degree in Chemistry or a closely related discipline.
- a preferred minimum score of 149 V (430/800, 47th percentile) and 147 Q (570/800, 28th percentile) on the GRE (the Chemistry subject exam is not required, but recommended).
- a minimum of a 3.00 grade point average (based on a 4.00 scale) in all undergraduate coursework, as verified by an official transcript from the applicant’s undergraduate institution.
- at least three letters of recommendation from professionals familiar with the student’s academic background.
- Applicants whose native language is not English must obtain at least a score of 79 on the Internet-based Test of English as a Foreign Language (TOEFL).
CURRICULUM REQUIREMENTS

Total Minimum Hours – 30 Credit Hours (Post-Baccalaureate)

Twenty hours must be in formally structured courses of which sixteen hours must be at the 6000 level, as approved by the student’s Supervisory Committee.

Core Requirements- 10 Credits Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CHM 6935</td>
<td>3</td>
<td>Graduate Seminars in Chemistry</td>
</tr>
<tr>
<td>CHM 6978</td>
<td>3</td>
<td>Advanced Research in Chemistry</td>
</tr>
<tr>
<td>CHM 6973</td>
<td>4</td>
<td>Directed Research</td>
</tr>
</tbody>
</table>

Electives - 18 Credit Hours

Students may select from the following list of 5000 or 6000 level courses in the Chemistry Department and/or related departments, such as Public Health, Education, Chemical Engineering, Physics, Biology, and Mathematics, with advisement of the student’s Supervisory Committee.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BCH 5045</td>
<td>3</td>
<td>Biochemistry Core Course</td>
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<tr>
<td>BCH 5105</td>
<td>1-3</td>
<td>Biochemistry Laboratory Rotations</td>
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<tr>
<td>CHM 5225</td>
<td>3</td>
<td>Advanced Organic Chemistry I</td>
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<tr>
<td>CHM 5226</td>
<td>3</td>
<td>Advanced Organic Chemistry II</td>
</tr>
<tr>
<td>CHM 5452</td>
<td>3</td>
<td>Polymer Chemistry</td>
</tr>
<tr>
<td>CHM 5621</td>
<td>3</td>
<td>Principles of Inorganic Chemistry</td>
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<td>CHM 5931</td>
<td>1-3</td>
<td>Selected Topics in Chemistry</td>
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<tr>
<td>CHM 6036</td>
<td>3</td>
<td>Chemical Biology</td>
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<tr>
<td>CHM 6150</td>
<td>3</td>
<td>Advanced Analytical Chemistry</td>
</tr>
<tr>
<td>CHM 6235</td>
<td>3</td>
<td>Spectroscopic Analysis of Organic Compounds</td>
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<td>CHM 6250</td>
<td>3</td>
<td>Advanced Organic Chemistry I: Synthesis</td>
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<td>CHM 6263</td>
<td>3</td>
<td>Advanced Organic Chemistry II: Physical-Organic</td>
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<td>CHM 6279</td>
<td>3</td>
<td>Introduction to Drug Discovery</td>
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<tr>
<td>CHM 6936</td>
<td>1</td>
<td>Chemistry Colloquium</td>
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<tr>
<td>CHM 6938</td>
<td>1-3</td>
<td>Selected Topics in Chemistry</td>
</tr>
<tr>
<td>CHM 6945</td>
<td>3</td>
<td>Investigating Chemical Education Research in the United States</td>
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</tbody>
</table>

Comprehensive Exam

The comprehensive exam for the MS takes the form of an oral defense of a written thesis.

Thesis – 2 credit hour

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CHM 6971</td>
<td>2</td>
<td>Thesis</td>
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</table>

Other Program Requirements

Oral Defense of a Research Thesis

The student must submit and orally defend before the Supervisory Committee a written thesis based on original research in an area approved by the student’s Supervisory Committee. This will serve as the final comprehensive examination required by the USF Office of Graduate Studies.

COURSES

See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
CHEMISTRY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Priority Admission Application Deadlines:</th>
<th>CONTACT INFORMATION</th>
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<tbody>
<tr>
<td>Fall: February 15</td>
<td>College:</td>
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<tr>
<td>Spring: October 1</td>
<td>Arts and Sciences</td>
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<td>Department:</td>
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<td>Chemistry</td>
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<td>Contact Information:</td>
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<td>International applicant deadlines:</td>
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<tr>
<td><a href="http://www.grad.usf.edu/majors">http://www.grad.usf.edu/majors</a></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Hours: 72
Level: Doctoral
CIP Code: 40.0501
Dept. Code: CHM
Major/College Codes: CHM AS
Approved: 1971

MAJOR 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 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.

Major Research Areas:

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below. Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- A B.A. or B.S. degree in Chemistry. Applicants with other degrees are considered on a case-by-case basis.
- A preferred minimum score of 149 V (430/800, 47th percentile) and 147 Q (470/800, 28th percentile) on the GRE (the Chemistry subject exam is not required, but recommended) a minimum of a 3.00 grade point average (based on a 4.00 scale) in all undergraduate coursework, as verified by an official transcript from the applicant’s undergraduate institution
- at least three letters of recommendation from people familiar with the student’s academic background
CURRICULUM REQUIREMENTS

Total Minimum Hours – 72 credit hours (Post-Baccalaureate) 42 credit hours (Post-Masters)

Core requirements – 9 credit-hours minimum
Additional Coursework – 61 (post-Baccalaureate) or 31 (post-masters) hours minimum
Dissertation – 2 credit-hours minimum

Core Requirements – 9 credit-hours minimum
CHM 6935  6  Graduate Seminars in Chemistry
CHM 6978  3  Advanced Research in Chemistry

Additional Course Requirements- 61 (Post-Baccalaureate) or 31 (post-masters)
Students may select from the following list of 5000, 6000, or 7000 level courses in the Chemistry Department and/or related departments, such as Public Health, Education, Chemical Engineering, Physics, Biology, and Mathematics, with advisement of the student’s Supervisory Committee.

BCH5045  3  Biochemistry Core Course
BCH5105  1-3  Biochemistry Laboratory Rotations
CHM5225  3  Intermediate Organic Chemistry I
CHM5226  3  Intermediate Organic Chemistry II
CHM5452  3  Polymer Chemistry
CHM5621  3  Principles of Inorganic Chemistry
CHM5931  1-3  Selected Topics in Chemistry
CHM6036  3  Chemical Biology
CHM6150  3  Advanced Analytical Chemistry
CHM6235  3  Spectroscopic Analysis of Organic Compounds
CHM6250  3  Advanced Organic Chemistry I: Synthesis
CHM6263  3  Advanced Organic Chemistry II: Physical-Organic
CHM6279  3  Introduction to Drug Discovery
CHM6936  1  Chemistry Colloquium
CHM6938  1-3  Selected Topics in Chemistry
CHM6945  3  Investigating Chemical Education Research in the United States
CHM 7820  varies  Directed Research

Other Requirements

Qualifying Exam
Students must successfully pass at least three of the five ACS undergraduate Chemistry proficiency exams in the subject areas of Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, and Physical Chemistry. A student may attempt each area exam three times and must score above the national norms.

Promotion to Candidacy
Before the end of the third academic semester (not counting the summer), the student should present to the Supervisory Committee a written document outlining the student’s research progress and future plans. This research summary is also to be presented orally to the committee, and a successful defense results in the student being promoted to candidacy for the Ph.D. degree.

Original Research Proposal (ORP) Examination
An original research proposal must be written and defended by the end of the student’s fifth semester (excluding summers), and after the student has already obtained Ph.D. candidacy.

Research Data Presentation
The student must give a research data presentation to his or her Dissertation Committee preferably by the end of the fourth year (eight semesters, excluding summers), and at least one semester prior to the final oral thesis defense.
Publication and Presentation Requirements
The student must publish at least one peer-reviewed manuscript on his or her doctoral research topic, and make at least two presentations at a scientific meeting.

Oral Defense of the Ph.D. Dissertation
Upon completing all the research and other program requirements, the student will schedule a final oral defense of the written dissertation. This presentation is open to the public and will serve as the final comprehensive examination required by the USF Office of Graduate Studies.

Dissertation (2 Credit Hours minimum)
CHM 7980  2 credits  Dissertation
Students who take more dissertation hours may apply these toward the additional course requirements.

COURSES
See http://www.ugs.usf.edu/course-inventory/
COMMUNICATION

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 15
Spring: October 15

International applicant deadlines:
http://www.grad.usf.edu/majors

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication
Contact Information: www.grad.usf.edu

Minimum Total Hours: 36
Level: Masters
CIP Code: 23.1001
Dept. Code: SPE
Major/College Codes: SPE AS
Approved: 1967

MAJOR 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.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- two letters of recommendation;
- a writing sample,
- a statement of purpose.
- GRE with preferred scores of at least 153V (500V prior to August 1, 2011)
- TOEFL Scores
- Transcripts
- CV or resume

CURRICULUM REQUIREMENTS

Total minimum hours 36 credit hours

Major Requirements
1) Establish a supervisory faculty committee consisting of a major professor and two additional members, at least one of whom is a member of the Department of Communication. The supervisory committee must be approved by the Director of Graduate Studies.
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 or more 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 (Thesis Program students only)

Core Requirements
COM 6001 Theories and Histories of Communication (3)
This course must be taken the first time it is offered after the student is admitted to the graduate program.

Select an option, either Thesis or Non-Thesis.

Thesis
In addition to the three (3) hours of core requirements, each student must also take
COM 7325 Seminar in Communication Research Methods (3) - either Qualitative Methods OR Critical Methods

Electives
24 hours of elective course work, six (6) hours of which may consist of a graduate course or courses from other departments and must have advisor approval.

Thesis Requirements
SPC 6971 Thesis (6)
Each student must complete at least six (6) hours of thesis credit (SPC 6971) and submit an approved thesis.
In consultation with the major professor, Thesis Program students will select a thesis topic, constitute a thesis committee, and write orally defend a thesis proposal. The thesis is an extended research project within a specific area of communication research culminating in a written academic analysis. Upon completion of the thesis, the student must pass an oral defense.

Non-Thesis
In addition to the three (3) hours of core requirements

Electives
33 hours of elective course work are required, six (6) hours of which may consist of graduate courses from other departments and must have advisor approval.

Comprehensive Exam Requirements
All Non-Thesis students must pass both written and oral comprehensive examinations.
Thesis students do not complete comprehensive exams.

COURSES
See http://www.ugs.usf.edu/course-inventory/
COMMUNICATION

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 15
Fall admission only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 51 post-masters
Level: Doctoral
CIP Code: 23.1001
Dept. Code: SPE
Major/College Codes: SPE AS
Approved: 1990

CONTACT INFORMATION

College: Arts and Sciences
Department: Communication
Contact Information: www.grad.usf.edu

MAJOR 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.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- three letters of recommendation;
- a writing sample,
- a statement of purpose
- GRE with preferred scores of at least 153V (500V prior to August 1, 2011)
- TOEFL Scores
- Transcripts
- CV or resume

CURRICULUM REQUIREMENTS

Total Minimum hours: 51 credit hours post-masters

Major Requirements
1. Establish a supervisory faculty committee consisting of a major professor and at least two additional members from the Department of Communication and at least one member outside the Department of Communication. The supervisory committee must be approved by the Director of Graduate Studies.
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:
   - expertise in one of the central domains of communication study;
   - expertise in the research methodologies needed to carry out original research in the specialized area of concentration

Core Requirements
   6 hours
   COM 6001 Theories and Histories of Communication (3)
   COM 7325 Seminar in Communication Research Methods (3) - either Qualitative Methods OR Critical Methods Course

Requirements
   33 hours
   In addition to the six (6) hours of core requirements, students are required to take a minimum of 33 hours of coursework beyond the M.A. degree (not counting credits for dissertation research). Six (6) hours of graduate coursework must be in an area of study outside the department. Students must enroll in and successfully complete a minimum of 12 hours designated as Ph.D. Seminars (COM 7933) as part of their elective coursework.

Research Tool Requirement
   6 hours
   In addition to COM 7325, complete an additional six (6) hours of coursework to fulfill the research tool requirement. If students elect to take both Qualitative and Critical Methods, they must take an additional methods course (3 hours) subject to the approval of their major professor.

Qualifying Exam Requirement
   All students must pass a written and oral qualifying examination covering the student's area of specialization and methodological competence. This examination will be prepared and evaluated by the student's supervisory committee

Dissertation
   6 credit hours minimum
   SPC 7980 Dissertation
   In consultation with the major professor and supervisory committee, students will select a dissertation topic and write and orally defend a dissertation proposal. Upon completion of the dissertation, the student must pass an oral defense.

COURSES
   See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
CREATIVE WRITING

Master of Fine Arts (M.F.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 1
Fall admission only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 45
Level: Masters
CIP Code: 23.1302
Dept. Code: ENG
Major/College: CWR AS
Approved: 2008

Concentrations:
- Fiction (CFI)
- Poetry (CPO)

CONTACT INFORMATION

College: Arts and Sciences
Department: English
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Master of Fine Arts in Creative Writing is a graduate-level major offering concentrations in fiction and poetry (with the opportunity to study other genres of writing such as screenwriting and creative nonfiction). The Major emphasizes the craft of writing and concentrates on the student’s original work. The MFA requires 45 hours of coursework and typically will take three years for the student to complete. Our goal is to help MFA students to produce publishable theses and secure teaching or editing positions upon graduation.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.
Students accepted into the program will begin coursework in the fall. No applications will be considered for spring or summer admission.

- An undergraduate degree, preferably in English, from an accredited institution, with a 3.20 average, or its equivalent
- A competitive Verbal aptitude score on the GRE general test, with a target Analytical Writing score of 4.0 (while the Quantitative score is not a determining factor in our admission decisions, both Verbal and Quantitative scores are factors in some university scholarships and fellowships)
- Three (3) letters of recommendation, preferably from former English instructors, assessing the student’s potential to do graduate level work
- A writing sample in one genre only: 12-20 pages of double-spaced fiction; 12-20 pages of double-spaced creative nonfiction, or 10-15 pages of single-spaced poetry
- A two-to-three page personal statement, describing the student’s background, purpose for attending graduate studies, and career goals
• A completed application submitted online through the Graduate Admissions Office

All supplementary application materials (i.e., statement, writing sample, and letters of recommendation) may be submitted electronically through the online application or may be submitted directly to the Department at the following address:

Graduate Director
Department of English, University of South Florida
4204 E. Fowler Ave., CPR107
Tampa, FL 33620-5550

Materials including GRE scores and transcripts must be received by the application deadline in order for students to be considered for admission. Graduates of USF do not need to order official transcripts. Applications are reviewed by an admissions committee after the deadline. Students will be notified by mail of the admissions decision within four to six weeks after the deadline.

CURRICULUM REQUIREMENTS

To complete the Master of Fine Arts in Creative Writing, students must satisfy the following requirements:

Total Minimum Hours: 45 hours

Earn 45 credit hours with an overall grade point average of 3.00 or better in the required courses. The distribution of the requirements will be

• 18 hours in writing workshops and craft seminars
• 3 hours in graduate studies
• 15 hours in pedagogy and literature courses, and
• 9 hours in thesis studies (taken in the final year of the program).

Complete a book-length manuscript in creative nonfiction, fiction, or poetry that will meet departmental and university requirements for the thesis. The thesis shall consist of 48-64 pages of poems (single- or double-spaced), at least 100 pages of fiction (double-spaced) or at least 100 pages of creative nonfiction (double-spaced). All students must write a three- to ten-page introduction to their thesis that explains their goals for the work.

Core Requirements

Select Six (6) courses (18 hours) from the following:

CRW 6130 Fiction Writing 3*
CRW 6331 Poetry Writing 3*
CRW 6236 Non-fiction Writing 3*

*may be taken up to three times for a maximum of 9 credits.

CRW 6164 The Craft of Fiction 3
Required for students admitted to the fiction concentration, optional for others.

CRW 6352 The Craft of Poetry 3
Required for students admitted to the poetry concentration; optional for others.

CRW 6025 The Craft of Nonfiction 3
Required for students admitted to the nonfiction track, optional for others.

CRW 6025 Special Topics in Creative Writing 3
This course concentrates on screenwriting, translation, editing, creative writing pedagogy (with a community service component), or study of a particular genre or technique.
Course (3 credits) in graduate studies

ENG 6009 Introduction to Graduate Studies

3 hours minimum

Must be taken in the student’s first or second semester of graduate studies.

Other Course requirements

15 hours minimum

5 courses (15 credits) in any combination of the courses below:

- ENC 6745 Practice in Teaching Composition
  - 3
  - Required of all first-year teaching assistants in composition

- CRW 6025 Practice in Teaching Creative Writing
  - 3
  - Required of all teaching assistants in creative-writing courses. This course may be taken more than once, but will only count for a total of three credits toward degree requirements.

- LIT 6934 Selected Topics: Literary Editing and Publishing
  - 3
  - Required of all students working on Saw Palm, USF’s creative writing journal. This course may be taken more than once, but will only count for a total of three credits toward degree requirements.

Any of the following graduate-level (6000 and above) literature courses offered by the English Department. These courses are coded AML 6---, ENL 6---, and LIT 6---. Sample courses include:

- AML 6017 Studies in American Literature to 1860
  - 3
- AML 6018 Studies in American Literature 1860-1920
  - 3
- AML 6027 Studies in Modern American Literature
  - 3
- AML 6608 Studies in African-American Literature
  - 3
- ENL 6206 Studies in Old English
  - 3
- ENL 6216 Studies in Middle English
  - 3
- ENL 6226 Studies in Sixteenth-Century British Literature
  - 3
- ENL 6228 Studies in Seventeenth-Century British Literature
  - 3
- ENL 6236 Studies in Restoration and Eighteenth-British Literature
  - 3
- ENL 6246 Studies of the English Romantic Period
  - 3
- ENL 6256 Studies in Victorian Literature
  - 3
- ENL 6276 Studies in Modern British Literature
  - 3
- LIT 6096 Studies in Continental Literature
  - 3
- LIT 6105 Studies in Continental Literature
  - 3
- LIT 6934 Selected Topics in English Studies
  - 3

Comprehensive Exam

9 hours minimum

Thesis

ENG 6971 Thesis: Master’s (9 hours total) — taken in the student’s final year of study.

The student must be registered in at least 3 hours of ENG 6971 during the semester prior to graduation.

Graduate Certificates

For information on Graduate Certificates please visit [http://www.outreach.usf.edu/gradcerts/](http://www.outreach.usf.edu/gradcerts/)

English Graduate Certificates Offered:

- Creative Writing
  - Contact Professor Rita Ciresi at rciresi@usf.edu
- Comparative and Interdisciplinary Literary Studies
  - Contact Dr. Susan Mooney at smooney@usf.edu
- Teaching Composition
  - Contact Dr. Debra Jacobs at djacobs@usf.edu
- Professional & Technical Communication
  - Contact Dr. Meredith Zoetewey at Zoetewey@usf.edu

COURSES

See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
ECONOMICS

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: June 1
Spring: October 15
Summer: No admission

International applicant deadlines: http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 45.0601
Dept. Code: ECN
Major/College Codes: ECO/AS
Approved: 2010

Also offered as an Accelerated Major

CONTACT INFORMATION

College: Arts and Sciences
Department: Economics
Contact Information: www.grad.usf.edu

MAJOR 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.

Major Research Areas:
Health economics, public economics, urban and regional economics, international trade, economic development, industrial organization, advanced theory, and advanced econometrics

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Bachelor’s degree or equivalent from a regionally accredited university or international equivalent.
- Must have a 3.00 or higher upper-level GPA.
- Must have taken the GRE within the preceding five years with target scores of 152 (490) on the verbal portion and 152 (670) on the 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.
- Minimum of 1 course in calculus.*
- Minimum of 1 course in statistics.*
- Undergraduate Intermediate-level microeconomics and undergraduate intermediate-level macroeconomics*

*Applicants must earn a grade of B or better in each of these courses.
CURRICULUM REQUIREMENTS

Total Minimum hours - 30 hours

All students are required to take courses in advanced economic theory and econometrics. Undergraduate economics majors at USF may complete the major in one year beyond the B.A. in the Accelerated B.A./M.A.. 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 3.00 GPA and at least a 3.00 GPA for all economics courses, and pass an oral examination.

Core Requirements 12 hours
ECO 6115 Microeconomics I 3
ECO 6206 Macroeconomics I 3
ECO 6405 Mathematical Economics I 3
ECO 6424 Econometrics I 3

Electives 18 hours
Economics at least 12 credits
Unrestricted at most 6 credits at the graduate level

Economics electives must be drawn from the following set of graduate-level courses offered in the Department of Economics:

ECO 6120 Economic Policy Analysis 3
ECO 6305 History of Economic Thought 3
ECO 6425 Econometrics II 3
ECO 6505 Public Finance 3
ECO 6525 Public Sector Economics 3
ECO 6706 International Trade: Theory and Policy 3
ECO 7116 Microeconomics II 3
ECO 7207 Macroeconomics II 3
ECO 7406 Mathematical Economics II 3
ECO 7426 Econometrics III 3
ECP 6405 Industrial Organization I 3
ECP 6408 Economics of Organization 3
ECP 6415 Issues in Regulation and Anti-Trust 3
ECP 6456 Law and Economics 3
ECP 6536 Economics of Health Care I 3
ECP 6614 Urban Economics 3
ECP 6624 Regional Economics 3
ECP 7406 Industrial Organization II 3
ECP 7537 Economics of Health Care II 3
ECS 6015 Economic Development 3

With the approval of the Graduate Director, unrestricted elective courses may be satisfied either by graduate-level courses offered by any department within the University or by certain MBA courses taught within the Department of Economics:

Comprehensive Exam
In addition to completing the 30 hours of coursework with overall and major GPAs of at least 3.00, a student must pass an oral examination conducted by a panel of three faculty members who have taught courses in the student’s major. At least one faculty member must be drawn from those who teach the core courses. The oral examination provides a forum for the student to provide evidence that s/he has sufficient knowledge and breadth of fundamental economic concepts so as to be able to undertake rigorous economic analysis, both theoretical and empirical in nature.

http://www.cas.usf.edu/
ACCELERATED BA/MA OPTION
The accelerated option will allow students to earn a BA in Economics and then an MA in Economics in at least one fewer semesters than if earned separately.

GPA Requirements
- Minimum undergraduate overall GPA of 3.33
- Minimum undergraduate major GPA of 3.50
- Minimum of 15 hours in the undergraduate major. ECO 2013, ECO 2023, and QMB 2100 do not count towards these 15 hours. QMB 3200, ECO 3101, and ECO 3203 must count towards these 15 hours.

Policy for where a student earns less than a “B” in a graduate course:
Any graduate course in which a student receives a grade of B- or lower may be used to satisfy the requirements of the BA degree, but not the MA degree. In this case, the student will have fewer than 9 hours shared between degrees and will be required to take additional graduate courses as needed once s/he is pursuing the MA degree full-time.

List of courses to be shared
Nine (9) hours of graduate coursework may be shared between the BA and MA degrees. Of these, six (6) hours will be mandatory:
- ECO 6115 and ECO 6405 (which satisfies ECO 4401) and three (3) hours will be chosen from ECO 6206 and the following list of undergraduate replacement courses:
  - ECO 4421 satisfied by ECO 6424
  - ECO 4504 satisfied by ECO 6505
  - ECO 3403 satisfied by ECP 6408
  - ECP 3413 satisfied by ECP 6415
  - ECP 3613 satisfied by ECP 6614
  - ECP 4451 satisfied by ECP 6456

Note: ECO 6115 and ECO 6206 do not replace ECO 3101 and ECO 203 as the latter two courses constitute six (6) hours of the 15 hours in the major that are required to be admitted to the Accelerated Major.

COURSES
See http://www.ups.usf.edu/course-inventory/
ECONOMICS

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 31

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 72 post-bacc
Level: Doctoral
CIP Code: 45.0601
Dept. Code: ECN
Major/College Codes: ECO/AS
Approved: 2010

CONTACT INFORMATION

College: Arts and Sciences
Department: Economics
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Doctor of Philosophy in Economics prepares students for careers as professional economists in academia, business and government.


ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Bachelor’s degree or equivalent from a regionally accredited university or international equivalent
- 3.00 GPA or better in all upper division undergraduate classes
- Must have taken the GRE within the preceding five years with target scores of 65th percentile on the verbal portion and 65th percentile on the 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.
- Minimum of 2 courses in calculus*
- Minimum of 1 course in probability and statistics*
- Undergraduate Intermediate-level microeconomics and undergraduate intermediate-level macroeconomics*

*Applicants must earn a grade of B or better in each of these courses.
CURRICULUM REQUIREMENTS

Total Minimum Hours - 72 hours
Core Requirements - 27
Fields - 12
Electives/Dir Research - 22
Dissertation - 11

CORE REQUIREMENTS - 27 hours
ECO 6115 Microeconomics I 3
ECO 6206 Macroeconomics I 3
ECO 6405 Mathematical Economics I 3
ECO 6424 Econometrics I 3
ECO 6425 Econometrics II 3
ECO 7116 Microeconomics II 3
ECO 7207 Macroeconomics II 3
ECO 7406 Mathematical Economics II 3
ECO 7426 Econometrics III 3

Fields - 12 hours
Select two pairs from the groupings below or from other pairs that the department may choose to offer:

ECP 6536 Economics of Health Care I 3
ECP 7537 Economics of Health Care II 3

ECS 6015 Economic Development 3
ECO 6706 International Trade: Theory and Policy 3

ECP 6405 Industrial Organization I 3
ECP 7406 Industrial Organization II 3

ECO 6505 Public Finance 3
ECO 6525 Public Sector Economics 3

ECP 6614 Urban Economics 3
ECP 6624 Regional Economics 3

Electives/Directed Research/Dissertation - 33 hours
Of this 33 hours minimum at least six hours must be met with additional graduate-level structured coursework approved by either the Graduate Director or the student’s (Co-) Major Professor(s) and at least 21 hours by a combination of Directed Research (EDO 6917) and Dissertation (EDO 7980) with Dissertation comprising at least 11 of these 21 hours.

Qualifying Examination
The qualifying examination is offered in two parts. The first part covers Mathematical Economics I (ECO 6405), Mathematical Economics II (ECO 7406), Microeconomics I (ECO 6115), and Macroeconomics I (ECO 6206). The second part covers Microeconomics II (ECO 7116), Econometrics II (ECO 6425), and Econometrics III (ECO 7426).

Dissertation - 11 hours minimum
ECO 7980 Dissertation

Graduation Requirements:
- Complete 27 credit hours of required coursework with required GPA.
- Complete 12 credit hours of economics field coursework with required GPA.
- Complete all credit hours of electives, of which there must be at least six with the required GPA.
- Pass both parts of the qualifying examination.
Complete at least 21 credit hours of directed research/dissertation with a minimum of 11 of these credit hours being dissertation.

- Write and successfully defend the doctoral dissertation proposal.
- The sum total of elective/directed research/dissertation credit hours must be at least 33.
- Write and successfully defend the doctoral dissertation.

Students with MA Degrees in Economics from External Institution

Students who already hold an MA degree in Economics from an external institution prior to entering the Ph.D. program are offered the opportunity to take the First-Year Qualifying Examination in the summer before entering the program. Students who chose this option and pass the exam are waived from taking the associated four required classes: Mathematical Economics I, Mathematical Economics II, Microeconomics I, and Macroeconomics I. In addition, the total number of coursework credit hours for these students is reduced from 45 to 39. The minimum total number of graduate level credit hours required is still 72. Students who choose to take the First-Year Qualifying Exam, but do not pass, will take these four required courses during their first year in the major. They will then take the First-Year Qualifying Exam the following summer.

COURSES

For an updated list of course offerings see: [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 1
      Fall admission only

Minimum Total Hours: 33
Level: Masters
CIP Code: 23.0101
Dept. Code: ENG
Major/College Codes ENG AS
Approved: 1967

Concentrations:
Literature (LIT)
Rhetoric and Composition (RAC)

Also offered as an Accelerated Program

CONTACT INFORMATION

College: Arts and Sciences
Department: English
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The M.A. in English with a concentration in Literature is a continuation of the B.A. with greater depth in literary knowledge and an introduction and implementation of methods, standards, and conventions of scholarship on literature. It is a generalist degree with broad-based distribution requirements, but it has the flexibility to study cutting-edge theories and newly emerging fields of interests (including cultural and comparative studies, ethnic literatures, and genre studies such as film). The major will conclude with a portfolio of two essays of 5000-6000 words each and an oral defense.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- B.A. in English
- A competitive Verbal aptitude score on the GRE general test, with a target Analytical Writing score of 4.0 (while the Quantitative score is not a determining factor in our admission decisions, both the Verbal and Quantitative score are factors in some university scholarships and fellowships)
- Undergraduate GPA 3.50
- Three (3) letters of recommendation
- Scholarly writing sample of approximately 2500 words (ten double-spaced pages) excluding bibliography or works cited; applicants may excerpt from a longer essay. Generally, the committee seeks to review academic writing from an English course.
- A two-to-three page personal statement describing the student’s background, purpose for attending graduate studies, and career goals

All supplementary application materials (i.e. statement, writing sample, and letters), may be submitted electronically through the online application or may be submitted directly to the department at the following address:

http://www.cas.usf.edu/
All materials, including GRE scores and transcripts, must be received by the application deadline in order for students to be considered for admission. Graduates of USF do not need to order official transcripts. Applications are reviewed by an admissions committee after the deadline. Students will be notified by mail of the admissions decision within four to six weeks after the deadline.

CURRICULUM REQUIREMENTS

Minimum Hours - 33 Credit Hours
Core Requirements – 3 hours
Concentration – 27 hours (Literature) / 36 hours (Rhetoric)

CORE REQUIREMENTS - 3 hours
ENG 6009 3 Introduction to Graduate Studies *(this should be taken in the first semester of coursework)*

CONCENTRATION REQUIREMENTS:
In addition to the core requirements, students must complete the requirements below for the selected concentration:

Literature Concentration - 27 hours
Requirements - 3 credits
ENG 6018 3 Studies in Criticism and Theory I
OR
ENG 6019 3 Studies in Criticism and Theory II

Historical Distribution*- 12 credits
Four courses chosen from the following:
1 Medieval or Renaissance (including 17th Century)
   ENL 6206 3 Studies in Old English
   ENL 6216 3 Studies in Middle English
   ENL 6226 3 Studies in Sixteenth-Century British Literature
   ENL 6228 3 Studies in Seventeenth-Century British Literature
1 18th Century (Either British tradition or Literature of the Americas)
   AML 6017 3 Studies in American Literature to 1860
   ENL 6236 3 Studies in Restoration and Eighteenth-Century British Literature
1 19th Century (Either British tradition or Literature of the Americas):
   AML 6017 3 Studies in American Literature to 1860
   AML 6018 3 Studies in American Literature to 1860 to 1920
   ENL 6246 3 Studies of the English Romantic Period
   ENL 6256 3 Studies in Victorian Literature
1 20th Century (Either British traditions or Literature of the Americas):
   AML 6027 3 Studies in Modern American Literature
   ENL 6276 3 Studies in Modern British Literature
   LIT 6096 3 Studies in Contemporary Literature
**Cultural & Critical Studies* - 6 credits**
Two courses in ethnic literature (including African-American, Latino/a, post-colonial), world literature, women’s literature or gender studies, critical theory, film, or genre
AML 6608 3 Studies in African American Literature  
ENG 6018 3 Studies in Criticism and Theory I  
ENG 6019 3 Studies in Criticism and Theory II  
ENG 6067 3 History of the English Language  
LIT 6934 1-6 Selected Topics in English Studies  
Or other courses as approved by the Graduate Director

*Of the six courses in Historical Distribution and Cultural-Critical Studies, two must be from British traditions and two from American Traditions.

**Electives - 6 credits**
Students taking ENC 6745 Teaching Practicum must use this as an elective if they count it toward the 33 credits in the degree. No CRW courses will be allowed in the literature track. Only one practicum will be allowed to satisfy degree requirements (including ENC 6745). One Directed Study may be used to substitute for degree requirement with the approval of the Graduate Director.

**Portfolio and Defense - 3 credits**
Three directed study hours to prepare portfolio. In their fourth and final semester (excluding summer terms), MA students will submit a portfolio for review to a two-member faculty committee six weeks prior to the Office of Graduate Studies deadline for thesis/dissertation submission. Upon submission, the student and chair of the committee will establish a defense date with the Graduate Program Specialist.

The portfolio will contain the following:

- An introductory first-person essay in which the student offers a self-evaluation of the contents of the portfolio and how it reflects his or her own process of revision, intellectual growth, plans for publication/dissemination, and professional development (minimum five pages, not to exceed fifteen).
- Two revised seminar papers 5000-6000 words in length, including appropriate MLA or Chicago Style documentation.
  - Papers should be developed under the direction of two different faculty members from the English Department, who then will form the committee for the defense. One member of the committee will serve as the chair, who will coordinate the circulation of the portfolio, the scheduling of the defense, and the submission of evaluation forms to the graduate director within specified deadlines.

The portfolio will be reviewed and evaluated by this two-member faculty committee using the published assessment rubric.

Members of the portfolio committee will be asked to work with the student to revise the papers she/he wrote for class. The goal is to get the papers into a form that might reasonably be published.

Because this option is not a thesis, it does not have to be submitted to the Office of Graduate Studies, and so it does not need to adhere to the Office of Graduate Studies deadlines. Defenses should be concluded two weeks before the end of classes. The whole portfolio, along with the revised papers and the introductory essay, should be circulated two weeks prior to the defense, to give committee members an opportunity to read it through.

**Oral Defense**
The committee chair convenes a meeting with the committee and student for 30 minutes; this oral examination provides the opportunity for faculty to question the student on various aspects of the portfolio, and it gives the student the opportunity to expand upon and refine ideas represented in writing. The defense also provides an opportunity for further suggestions on publication and revision. After 30 minutes, the committee will convene without the student to discuss a final assessment for the portfolio using the published rubric.
Rhetoric and Composition Concentration - 33 hours

Requirements - 12 credits
ENC 6700  3  Studies in Composition Theory
ENC 6720  3  Studies in Composition Research
ENC 6421  3  Studies in Rhetoric and Technology
ENC 6336  3  Studies in the History of Rhetoric

Electives - 15 credits
Three (3) electives within Literature or Rhetoric and Composition from the following (9 credit hours):
ENC 3 Advanced Technical Writing
ENC 6261  3  Professional and Technical Communication
ENC 6333  3  Contemporary Rhetorics
ENC 6422  3  New Media Production
ENC 6740  3  Theory and Development of Writing Programs
LAE 6375  3  Contemporary Composition Studies

Two additional electives in English or outside department, related to course of study (6 credit hours at the graduate level.)

Thesis - 6 credits minimum
ENG 6971  6  Thesis or Portfolio: Master’s

MA Thesis or Portfolio on a Rhetoric and Composition subject plus an oral defense

The M.A. thesis – 40-50 pages, typed body in 12 point Times New Roman font, double-spaced – should be based on student’s specialization in Rhetoric and Composition. This manuscript can be a revision and extension of a course paper or conference paper. It must contribute to the discipline by advancing scholarly discussions in Rhetoric and Composition studies and offering new knowledge.

MA students may submit portfolios in lieu of traditional theses. Variable portfolio contents will be determined in concert with candidates’ professional goals. Portfolio contents will range from 40-50 pages or equivalent (excluding works cited).

Comprehensive Exam
Students in the Literature Concentration complete a capstone requirement/portfolio, including an oral defense, in lieu of a comprehensive exam. For students in the Rhetoric and Composition Concentration, the thesis defense serves in lieu of a comprehensive exam.

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@usf.edu
Comparative and Interdisciplinary Literary Studies – Contact Dr. Susan Mooney at smooney@usf.edu
Teaching Composition – Contact Dr. Debra Jacobs at djacobs@usf.edu
Professional & Technical Communication – Contact Dr. Meredith Zoetewey at zoetewey@usf.edu

ACCELERATED BA/MA OPTION
This Accelerated Major option allows B.A. majors in Literary Studies to take graduate course in the M.A. degree in English with a Concentration in Literature during their senior year. These shared credits will be applicable to the M.A. degree, thus accelerating the time to completion, with successful students able to earn the M.A. degree in two additional semesters beyond the completion of the B.A. Degree. This accelerated program shares 12 credits between already existing degrees:

B.A. in Literary Studies and M.A. in English with a Concentration in Literature

Target students and expected outcomes
This program builds on the department’s B.A. and M.A. degrees. It will give talented Literary Studies majors the opportunity to take graduate courses and apply them to an M.A. in Literary Studies. If successful, students will be able to
complete an M.A. two semesters after the B.A. requirements have been met. This will allow them to more expeditiously pursue career opportunities requiring a graduate degree in Literary Studies or pursue Ph.D. studies.

Description and Requirements
For admission to the Accelerated Option, a student must:

1. have completed at least 15 hours in the Literary Studies undergraduate major, including ENG 3014.
2. have a minimum undergraduate 3.33 GPA overall; and
3. have a minimum undergraduate 3.5 GPA in the major.

Application may be made by any student who has satisfied the minimum requirements. Applications should be addressed to the Department Undergraduate and Graduate Directors and should include a statement by the student affirming satisfaction of minimum requirements (with supporting documentation) and a letter of recommendation from a Literary Studies faculty member familiar with the student’s academic performance.

Policy for where a student earns less than a “B” in a graduate course:
No grade lower than a B will be accepted in a graduate course in this program. Students earning less than a B in a graduate course must retake the course and earn a B or higher, to apply it to their graduate degree.

List of courses to be shared
Twelve (12) hours of graduate credit may be shared as follows:
ENG 6018 or ENG 6019 Studies in Criticism and Theory I & II will satisfy the ENG 4013 Literary Criticism requirement.
9 hours at the 4000 level are satisfied by 9 hours at the 6000 level in the English Literature Concentration as approved by the Graduate Director. Please see Advising list.

Refer to Undergraduate Catalog – B.A. in Literary Studies for undergraduate requirements
Refer to the M.A. in English with a Concentration in Literature requirements, posted above, for graduate requirements.

COURSES
See http://www.ugs.usf.edu/course-inventory/
ENGLISH

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 1
Fall admission only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 40 Post-Masters
Level: Doctoral
CIP Code: 23.0101
Dept. Code: ENG
Major/College Codes: ENG AS
Approved: 1971

Concentrations:
Literature (LIT)
Rhetoric and Composition (RAC)

CONTACT INFORMATION

College: Arts and Sciences
Department: English
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Ph.D. in English with a concentration in Literature seeks 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 that include actual teaching experience.

The Ph.D. in English with a concentration in Rhetoric and Composition seeks to equip teacher-scholars with both a robust familiarity with critical, literary, and rhetorical theory and with the pedagogical experiences requisite for quality instruction. Students will specialize their studies toward a particular field of concentration.

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 requirement and to the doctoral dissertation after included in these hours must be ENG 6005 Scholarly Research and Writing, ENG 6018 or ENG 6019 and one other theory-rich course, and two courses designated as Doctoral Seminars, with an extra credit of ENG 7939. After completing the necessary course work, students must take a written qualifying exam with oral defense. Students passing this exam and fulfilling the foreign language requirement are then admitted to doctoral candidacy. Students who carry deficiencies on this exam for more than two terms, or who fail this exam more than once, are dismissed from the program. Upon the completion and approval of the dissertation, students will defend the dissertation in an oral examination. After successful completion of the dissertation and defense, students are awarded the doctoral degree.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- M.A. in English from a regionally-accredited university
A competitive Verbal aptitude score on the GRE general test, with a target Analytical Writing score of 4.0 (while the Quantitative score is not a determining factor in our admission decisions, both Verbal and Quantitative scores factor in some university scholarships and fellowships)

- GPA – minimum 3.70 graduate GPA
- Three (3) letters of recommendation, at least two of these letters should be from professors who have taught the applicant at the graduate level
- A two-to-three page personal statement describing the student’s background, purpose for attending graduate studies, and career goals
- A scholarly writing sample of approximately 2500 words (ten double-spaced pages) excluding bibliography or works cited; applicants may excerpt from a longer essay. Generally, the committee seeks to review academic writing from an English course.

All supplementary application materials (i.e., statement, writing sample, and letters), may be submitted electronically through the online application or may be submitted directly to the department at the following address:

Graduate Director  
Department of English  
University of South Florida  
4202 E. Fowler Ave., CPR 107  
Tampa, FL 33620-5550

All materials, including GRE scores and transcripts, must be received by the application deadline in order for students to be considered for admission. Graduates of USF do not need to order official transcripts. Applications are reviewed by an admissions committee after the deadline. Students will be notified by mail of the admissions decision within four to six weeks after the deadline.

**CURRICULUM REQUIREMENTS**

Total Minimum hours: 40 hours beyond the MA degree

**CORE REQUIREMENTS**

ENG 6005 — Scholarly Research and Writing (3)  

**CONCENTRATION REQUIREMENTS**

Students select from the following concentrations:

**Literature Concentration**

ENG 6018 or ENG 6019 Studies in Criticism and Theory I & II  
(May have been taken at the MA level)

One theory-rich course chosen from the following  
ENC 6336 Studies in the History of Rhetoric  
ENG 6018 Criticism & Theory I  
ENG 6019 Criticism & Theory II  

Or other courses designated theory-rich in the department’s Graduate Bulletin or otherwise approved by the Graduate Director

**ENG 7939 Doctoral Seminar**

Must be taken twice (two credits total) in conjunction with a three-credit course; the two courses plus the two seminar credits total 8 credits

**One practicum in teaching or in tutoring for the Writing Center**

ENC 6745 Teaching Practicum  
LAE 6375 Contemporary Composition Studies  
LAE 6389 Practice in Teaching Literature  

Or other courses as approved by the Graduate Director
Electives  
10 credits
10 hours minimum from other graduate courses in the Department of English

Other
Demonstrated proficiency in one foreign language by one of the following means:
- Place beyond Level IV in a language placement test (administered by World Language Education Department)
- Earn a B or better in one of the graduate courses Reading for French, Spanish, or German
- Earn a B or better in two semester courses of an intermediate foreign language (e.g., Spanish III and Spanish IV)
- Earn a B or better in a fourth semester language course (e.g., Spanish IV)
- Earn a B or better in a second semester Latin course

Qualifying Exam
Ph.D. qualifying exam (students may enroll in directed reading hours with exam committee members)

Rhetoric & Composition Concentration  
32 hours

Requirements  
12 credits
ENC 6700  Studies in Composition Theory  3
ENC 6720  Studies in Composition Research  3
ENC 6421  Studies in Rhetoric and Technology  3
ENC 6336  Studies in the History of Rhetoric  3

ENG 7939 Doctoral Seminar  
8 credits
Must be taken twice (two credits total) in conjunction with a three-credit course; the two courses plus the two seminar credits total 8 credits

Electives  
12 credits minimum
(12-15 credits, dependent upon whether ENC 6745 was taken at the MA level)
Four or five elective courses in Rhetoric and Composition chosen from the following:
ENC  Advanced Technical Writing  3
ENC 6261  Professional and Technical Communication  3
ENC 6333  Contemporary Rhetorics  3
ENC 6422  New Media Production  3
ENC 6740  Theory and Development of Writing Programs  3
LAE 6375  Contemporary Composition Studies  3

Other: Foreign Language Requirement
Demonstrated proficiency in one foreign language by one of the following means:
- Place beyond Level IV in a language placement test (administered by World Language Education)
- Earn a B or better in one of the graduate courses Reading for French, Spanish, or German
- Earn a B or better in two semester courses of an intermediate foreign language (e.g., Spanish III and Spanish IV)
- Earn a B or better in a fourth semester language course (e.g., Spanish IV)
- Earn a B or better in a second semester Latin course

Ph.D. Qualifying Exam
After completing 30 hours of coursework, the language requirement, and all incomplete grades, a student may take the Ph.D. examination. The standardized exam will be offered twice each academic year for all eligible students and consists of:
- A 24-hour take-home exam divided into four written sections (1,000 words apiece), the content of which corresponds to the four core courses: Composition Theory, Research Methods, Rhetoric and Technology, and Historical Rhetorics. Questions will be available in Canvas office at 9:00 a.m. on the
day of the exam. Questions will be digitally submitted to the exam chair by 9:00 a.m. on the following
day for SafeAssign (or other software as approved by University and Department) submission in Canvas.

- **A manuscript suitable for publication** in a specified scholarly journal (7,000-8,500 words) to be turned
  in at the same time as the 24-hour exam. The topic of the manuscript should be based on the student’s
  specialization in Rhetoric and Composition. This manuscript can be a revision of a course paper or
  conference paper or an extension of their project from the Scholarly Writing and Research class. It must
  contribute to the discipline by advancing scholarly discussions in Rhetoric and Composition studies and
  offering new knowledge.

Both parts of the exam carry equal weight. All exams will be assessed by a rotating committee of at least 3
Rhetoric and Composition faculty representing different areas of disciplinary expertise. Every exam question will
be graded by each member of the committee, although emphasis will be placed upon readers' areas of
specialization when determining the final score for each question.

### Dissertation

**10 hours minimum**

ENG 7980 Dissertation: Doctoral—Minimum of 10 dissertation hours (no maximum), plus oral defense

### Graduate Certificates

For information on Graduate Certificates please visit [http://www.outreach.usf.edu/gradcerts/](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@cas.usf.edu
- Professional & Technical Communication — Contact Dr. Meredith Zoetewey at zoetewy@usf.edu

### COURSES

See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
ENVIRONMENTAL SCIENCE AND POLICY

Master of Science (M.S.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Fall Admission Only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 36
Level: Masters
CIP Code: 3.0104
Dept. Code: ESP
Major/College Codes: ESP AS
Approved: 1999

CONTACT INFORMATION

College: Arts and Sciences
Department: Geography, Environment and Planning
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Contact the department for information.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Applicant must hold B.S. or B.A. degree in a relevant subject area
- Applicant must submit transcripts of undergraduate degree and results of GRE taken at most five (5) years before the application.
- Applicant must submit a statement of interests, documenting capabilities, achievements, goals and intended area of academic and research concentration in the Department if admitted.
- 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.
- Program may have additional requirements; check before applying. It is strongly recommended that the applicant contact the Department’s Graduate Director for guidance in applying to the M.S..

Applicant must submit:

- GRE scores
- A GPA of at least 3.0 in his/her last 60 undergraduate hours
- If non-native English speaker, TOEFL of at least 600.
CURRICULUM REQUIREMENTS

The curriculum consists of 36 credits divided into three categories:

1) Core Requirements 15 credits
2) Elective Requirements 12 credits
3) Research Requirements 9 credits

Core Requirements 15 credits

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) GIS 5049 – Geographic Information Systems for Non-Majors 3
b) GIS 6100 – Advance Geographic Information Systems 3
c) STA 5166 – Computational Statistics 3
   (or other statistics course approved by the Graduate Director such as PCB 6456 or GEO 6166)
d) PCB 6456 – Biometry 4
e) GEO 6166 – Multivariate Statistical Analysis 3

Advanced topics in Environmental Science - Students must complete both of the following courses:

a) GEO 6116 – Perspective in Environmental Thought 3
b) EVR 6922 – ESP Capstone Seminar 3
   (taken after a minimum of 24 major hours have been completed)

Students must take two courses from the following list. At least one class must be an EVR course.

EVR 6934 Seminar in Environmental Science (varying special topics) -
EVR 6937 Seminar in Environmental Science and Policy 3
   (varying special topics)
EVR 6216 Advances in Water Quality Policy and Management 3
EVR 6101 Geomorphology for Environmental Scientists 3
EVR 6408 Wildlife Ecology 3
GEO 6347 Natural Hazards 3
GEO 6288 Hydrologic Systems 3
GEO 6286 Advances in Water Resources 3
GEO 6263 Soils Seminar 3
GEO 6217 Karst Geomorphology Seminar 3
GEO 6215 Geomorphology Seminar 3
GEO 6209C Physical Geography Seminar 3
GEO 6345 Technological Hazards and Environmental Justice 3
PHC 6712 Air Pollution Research Seminar 1

Elective Requirements 12 credits

Students must complete 12 credit hours of graduate level elective courses within an area of concentration selected according to their interests and career goals. Students should select appropriate advanced coursework within their chosen area of concentration, in close consultation with their major professor and Supervisory Committee, to develop programs of study that fit their scholarly and career interests, and for thesis option students, the needs of their research. Students completing an approved (by the Graduate Director) graduate certificate as part of their major can count 12 hours from the certificate towards the M.S. degree elective requirements. Students completing the Environmental Policy and Management Certificate can apply GEO 6116 and EVR 6922 (or approved course substitutions) toward the M.S. degree core requirements. Additional certificate courses that meet M.S. degree core requirements will be applied to the core and remaining courses will be counted as electives in the MS. Each student’s elective program of study is subject to the approval of the
Graduate Director. Areas in which students may decide to complete their electives, where graduate-level courses are supported by the ES&P Major and/or affiliated Departments, include:

1. **Ecology.** 12 credits primarily from courses offered within the ES&P Major in the Department of Geography, and courses in the Department of Biology, to be selected in consultation with the student’s major professor and Supervisory Committee. This area features a particular concentration in landscape ecology, wildlife ecology and management, conservation biology, ecological modeling, and field methods, including the use of GIS, GPS, and remote sensing technologies.

2. **Environmental Policy and Management.** 15 credits (only 12 hours can be applied towards the MS) guided by the guidelines for the Graduate Certificate in Environmental Policy and Management. Credits will be applied to the core and elective requirements for the M.S. as described above.

3. **Geology.** 12 credits primarily from courses offered within the ES&P Major in the Department of Geography and courses in the Department of Geology to be selected in consultation with the student’s Supervisory Committee. This area features a particular concentration in karst geology and public policy planning in karstic environments: and a concentration in paleogeology.

4. **Hydrogeology.** 15 credits (only 12 hours can be applied towards the MS) as required by the Graduate Certificate in Hydrogeology, as specified by the Department of Geology.

5. **Hazards Assessment and Mitigation.** 12 credits primarily from courses offered within the ES&P Major in the Department of Geography, and courses in the Department of Geology, and Civil Engineering, to be selected in consultation with the student’s major professor and Supervisory Committee.

6. **Urban Environment.** 12 credit hours primarily in the Department of Geography, to be selected in consultation with the student’s major professor and Supervisory Committee.

7. **Water Quality and Policy.** 12 credits drawn from relevant courses offered within the ES&P Major in the Department of Geography, and courses in the Department of Civil and Environmental Engineering, and the School of Public Affairs, to be selected in consultation with the student’s major professor and Supervisory Committee. This area features a particular concentration in urban runoff water quality, watershed-based water quality assessment, and watershed planning and management for water quality protection.

8. **Other.** 12 credits in other areas of concentration are also considered. The student may select an area of concentration that is strongly supported by graduate studies at USF and by one or more faculty members in the Department of Geography. The student should be able to describe how the courses form a coherent area of concentration relevant to his or her scholarly interests, research objectives, and/or career goals, and prepare a brief statement to that effect for the approval of the Graduate Director. The student should then select courses in consultation with his/her major professor and Supervisory Committee.

**Research Requirements (9 credits)**

The M.S. in ES&P is a research-oriented degree. Thesis track students complete a Thesis that 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). Students should form their Supervisory Committee before completion of 18 credits of coursework, typically near the end of their first full year in the Major. Students complete a Thesis Proposal subject to approval of the Supervisory Committee typically early in the second year of studies. Students defend their Thesis 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 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. Research Methods/Design Preparation: All students selecting the Thesis option will complete a research methods/design course (GEO 6970 – Research Methods in Geography). Other courses may be substituted for this requirement with the permission of the student’s advisor and the Graduate Director.

3. Research Colloquium (EVR 6930), 1 credit hour

### Thesis/Non-Thesis Options

There are two options to complete the M.S. Degree:

A. **Thesis Option.** The thesis option is designed for students who wish to complete original research as part of their graduate studies. The thesis option is a viable option for all students. Those intending to continue graduate work to the Ph.D. level are strongly encouraged to complete a thesis.

B. **Non-Thesis Option.** Students complete a minimum of 36 hours for the Major, with 24 hours of electives, keeping in mind that a minimum degree requirement is 16 hours at the 6000 level. Students must pass a comprehensive written examination that is administered during the semester they plan to graduate.

### Comprehensive Examination

**Thesis Option:**

1. The student is required to present his/her thesis research at a public thesis defense.

2. As part of the thesis defense, an oral comprehensive exam is also administered. The defense and oral exam is scheduled and organized by the student’s major professor, in consultation with the student’s Supervisory Committee and the Graduate Director. As part of this process, a Presentations Form (available in the department office) needs to be completed one week prior to the defense date.

3. The exam can be completed only during the spring and fall Semesters.

4. A copy of the thesis must be made available in the department office one week prior to the defense for public review.

**Non-Thesis Option:**

1. The examining committee will be comprised of the student’s Supervisory Committee.

2. Non-thesis students are required to complete a six-hour long, written, closed book, comprehensive exam, which typically consists of series of questions that are prepared by the examination committee. Students are not allowed any outside materials during the exam, which is to be hand-written on paper supplied by the examination committee.

3. The exam can be completed during the spring or fall semesters, but not during the summer.

4. Students are encouraged to complete the exam during the last semester of their coursework. The exam must be completed no later than one semester after the student completes the coursework for the degree. You must be registered for two credits in that semester in the semester that the exam is completed.

5. All non-thesis examinations will be scheduled for the same day each semester (i.e. all students will sit for the exam at the same time), the date being set by the Graduate Director. Students must coordinate with their major professors when they will take the exam.
6. Questions are solicited and organized by the student’s major professor in consultation with the student’s examination committee.

7. The answers to the questions are evaluated by the student’s Supervisory Committee within two weeks of the exam.

8. If the answer to any question is determined to be incorrect or incomplete, the student may be required to retake that portion of the exam in the form of an oral exam that is only open to the committee. Students are encouraged to complete the oral exam in the same semester they completed the first written exam.

9. If the student fails all portions of the exam, they will have one opportunity to retake the entire exam. This second exam must be completed no later than the semester after the student receives notification that a second exam is necessary.

10. If it is determined that the student did not successfully complete his/her comprehensive exam after their second attempt, he/she will be dismissed from the Major.

COURSES
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
FRENCH

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Spring: October 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 34
Level: Masters
CIP Code: 16.0901
Dept. Code: WLE
Major/College Codes: FRE AS
Approved: 1967

Also offered as a Concurrent Degree with Linguistics:
English as a Second Language (MA)

CONTACT INFORMATION

College: Arts and Sciences
Department: World Languages
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Contact Department for Information.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- 2-3 letters of recommendation,
- A writing sample in French, and
- An oral interview in French (can be done by phone).
- GRE is not required.

CURRICULUM REQUIREMENTS

Total Minimum Hours: 33 hours

Core – 6 credit hours
Coursework – 21 credit hours minimum
Non-Thesis – 9 hours
Thesis – 6 hours minimum

Core requirements 6
FRW 5829 3 An Introduction to Modern French Literary Criticism
FRW 6405 3 Old French
Required Coursework – 24 hours minimum
Students select from FRW courses that are 5000-level and up, such as those listed below. Students may take up to 9 credits of courses from a different section/department upon approval of the Graduate Director.

- FRW 5222 3 Classical Prose and Poetry
- FRW 5226 3 20th Century Poetry and Theatre
- FRW 5286 3 The 20th Century Novel
- FRW 5314 3 Classical Drama
- FRW 5415 3 Literature of the Middle Ages
- FRW 5425 3 Literature of the Renaissance
- FRW 5445 3 18th Century Literature
- FRW 5535 3 Romanticism and Early Realism
- FRW 5556 3 Naturalism and Realism
- FRW 5745 3 French Literature of Quebec
- FRW 5755 3 African and Caribbean Literature
- FRW 5829 3 An Introduction to Modern French Literary Criticism
- FRW 5934 3 Special Topics: varies

Or other courses approved by Graduate Director

Comprehensive Exam
Satisfactory performance on the written comprehensive examination is required.

Non-Thesis – 9 hours minimum
Students in the non-thesis option take an additional 9 credit hours of graduate coursework from the French courses listed above, as approved by the Graduate Director.

Thesis – 6 hours minimum
FRE 6971 6 Thesis
Students in the non-thesis option complete an additional 6 hours of graduate coursework.

Additional requirements
Proficiency in a second foreign language

OTHER INFORMATION

Special Programs Overseas
The Department of World Languages, in cooperation with the USF World, offers several study programs overseas. These include study in several locations in France and Canada. For complete details, contact the graduate advisors or USF World.

COURSES
See [http://www.ugs.usf.edu/course-inventory/]
FRENCH AND LINGUISTICS: ENGLISH AS A SECOND LANGUAGE

Concurrent Degrees:
Master of Arts (M.A.)/Master of Arts (M.A.) Degrees

DEGREE INFORMATION

Refer to individual Majors for deadlines

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 36 (ESL), 33 (FRE)
Level: Masters
CIP Codes: 16.0102, 16.0901
Dept. Codes: WLE
Major/College Codes: ESL/AS, FRE/AS

CONTACT INFORMATION

Colleges: Arts and Sciences
Department: World Languages
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

This is a concurrent degree between the MA in Linguistics: ESL and the MA in French. Students will need to meet the admissions requirements for each individual major to qualify for the concurrent degree option. Also, students will need to complete all curriculum requirements for both majors, including both sets of comprehensive/exit exams.

Major Research Areas:
Individual differences, Corpus linguistics, Second language phonology, Second language writing, Second Language Acquisition, Discourse Analysis, and second language learning and teaching. French language, Cultural studies, Film, Literature, and Linguistics

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements specified in the Catalog list for each major.

CURRICULUM REQUIREMENTS

For specific information on the requirements for the major, please refer the Catalog listing for that major.

M.A. in Linguistics: English as a Second Language (ESL) – total minimum hours: 36
M.A. in French – total minimum hours: 33
Total hours: 69, with 9 shared. Total combined: 60 credit hours

Shared Courses: The following courses are approved to be shared with both majors:
- TSL 5371 3 Methods of Teaching English as a Second Language – (required for Linguistics; elective for French)
- LIN 5700 3 Applied Linguistics – (required for Linguistics; elective for French)
- FRW 5829 3 An Introduction to Modern French Literary Criticism – (required for French; elective for Linguistics)

For all other curriculum requirements, including Thesis/non-Thesis, Internship, Comprehensive Examination, etc., refer to the Catalog listing for that major.

http://www.cas.usf.edu/
GEOGRAPHY

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15 (GA Application)
      Fall Admission Only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30 Thesis Option
                     36 Non-Thesis Option
Level: Masters
CIP Code: 45.0701
Dept. Code: GPY
Major/College Codes: GPY AS
Approved: 1970

Concentrations:
Human Geography (USG)
Environmental Geography (EVG)
Geographic Information Science & Spatial Analysis (TGP)

CONTACT INFORMATION

College: Arts and Sciences
Department: Geography, Environment, and Planning
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Geography is the study of the human-environment relationship either in a global or more regional context.

Human Geography studies the construction of space, place, and power. It encompasses the study of economic geographies (e.g. globalization and development), political geographies (e.g. geopolitical struggles and new social movements), and social and cultural geographies (e.g. identities and exclusions). Human geography is key to providing insights into contemporary spatial arrangements, including the role of cities within the global economy, locating urban-rural intersections in the production of uneven development, and how class, gender, and race shape struggles for social justice.

Environmental Geography links the study of nature and society and considers the ways in which conventional divisions between human and non-human (natural) worlds are bridged through the production of socio-natures. This understanding is crucial to explaining and ameliorating contemporary environmental problems, including the privatization of natural resources, inequalities in access to food and water, injustices associated with environmental hazards and undesirable land uses, and the role of human activities in spurring large-scale environmental change.

GI Science and Spatial Analysis concentrates on the use of advanced geospatial technologies, and the development and use of spatial analysis methodologies, to applied research problems in human and environmental geography. A thorough understanding of such geospatial technologies as Remote Sensing, GIS, and GPS, as well as modern methods of spatial statistical analysis and emerging spatial analytical techniques such as agent-based modeling, is a critical aspect of developing appropriate approaches to the analysis of geographic data.
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- At least two letters of recommendation,
- transcripts,
- A letter of intent, and
- A graduate assistant application if the applicant is applying for a GA position.
- GRE is required.
- BA with 3.0 GPA

CURRICULUM REQUIREMENTS

The Department of Geography, Environment, and Planning 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.

Core Requirements

Required Core Courses (9 Hours)

All students must take the following core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 6058</td>
<td>Geographic Literature and History</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6116</td>
<td>Perspectives in Environmental Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

Based upon the student’s area of interest, he/she must take one course from the following Quantitative or Qualitative course offerings:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 6166</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6119</td>
<td>Geographical Techniques and Methodology: Qualitative Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Regional:

Students are strongly encouraged to complete at least one of the following regional courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEA 6195</td>
<td>Seminar in Advanced Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEA 6215</td>
<td>Seminar in North American Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEA 6252</td>
<td>Seminar in the Geography of the American South</td>
<td>3</td>
</tr>
<tr>
<td>GEA 6406</td>
<td>Seminar in Latin American and Caribbean Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEA 6504</td>
<td>Seminar in European Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEA 6745</td>
<td>Asian Geography Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Requirements

Students specialize in one of the three concentrations (A, B, and C) that the department offers. Students must select a minimum of three courses (9 credits) from the selected concentration.

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 concentration excluding GEO 6908, 6918, and 6944. Electives may also be selected from courses offered outside of the Department, with the consent of the student’s advisor and the graduate coordinator. A maximum of six approved hours taken outside the department can be used in the student’s major. 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 the degree. Upon completion of a minimum of 18 hours students are required to defend a thesis proposal. Students must also complete
a thesis defense during the semester they plan to graduate, and they must be enrolled in a minimum of 2 semester hours of thesis credit during the semester in which they submit their thesis to the Office of Graduate Studies.

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 at the graduate level outside the department with the consent of their advisor and the Graduate Coordinator, to apply toward their major. Students can apply three credit hours of Internship (GEO 6944), three credit hours of Directed Research (GEO 6918) and/or Independent Research (GEO 6908) toward their major. Students must pass a comprehensive written examination that is administered during the semester in which they plan to graduate.

Students select one of the following concentrations:

### Human Geography

- GEO 6058 Geographic Literature and History 3
- GEO 6428 Seminar in Advanced Human Geography 3
- GEO 6605 Contemporary Urban Issues 3
- GEO 6475 Political Geography Seminar 3
- GEO 6345 Technological Hazards and Environmental Justice 3
- GEO 6545 Economic Geography Seminar 3
- GEO 6627 Site Feasibility Analysis 3
- GEO 6704 Transportation Geography 3
- GEO 6119 Geographical Techniques and Methodology: Qualitative Research Methods 3
- GEO 6166 Multivariate Statistical Analysis 3
- GEO 7606 Seminar in Urban Environments 3
- GIS 6307 Socioeconomic Applications of GIS 3

A regional geography (GEA) course may be substituted for a course in the Human Geography concentration.

### Environmental Geography

- GEO 6116 Perspective of Environmental Thought 3
- GEO 6345 Technological Hazards and Environmental Justice 3
- GEO 6209C Physical Geography Seminar 3
- GEO 6215 Geomorphology Seminar 3
- GEO 6217 Karst Geomorphology 3
- GEO 6255 Weather, Climate, and Society 3
- GEO 6263 Soils Seminar 3
- GEO 6286 Water Resources 3
- GEO 6288 Hydrological Systems 3
- GEO 6347 Natural Hazards 3
- GEO 6166 Multivariate Statistical Analysis 3
- GIS 6038C Advanced Remote Sensing 3
- GIS 6039 Readings in Remote Sensing 3
- GIS 6306 Environmental Applications of GIS 3
- GIS 6355 Water Resources Applications of GIS 3

### Geographic Information Science and Spatial Analysis

- GEO 5075 Global Positioning Systems 3
- GIS 6038C Remote Sensing 3
- GIS 6039 Remote Sensing Seminar 3
- GIS 6100 Geographic Information System 3
- GIS 6103 Programming for GIS 3
- GIS 6112 Spatial Database Development 3
- GEO 6115 Field Techniques 3
- GEO 6119 Geographical Techniques and Methodology 3
- GIS 6146 GIS Seminar 3
- GEO 6166 Multivariate Statistical Analysis 3
- GIS 6306 Environmental Applications of GIS 3
GIS 6307 GIS Seminar 3
GIS 6355 Water Resources Applications of GIS 3

The same course cannot be used to satisfy both the required core and concentration course requirements.

Comprehensive Exam
Non-thesis students must pass a comprehensive written examination that is administered during the semester in which they plan to graduate.

COURSES
See http://www.ugs.usf.edu/course-inventory/
GEOGRAPHY AND ENVIRONMENTAL SCIENCE AND POLICY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Fall Admission Only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 60 (post-Master’s)
90 (post-Bachelor’s)
Level: Doctoral
CIP Code: 45.0799
Dept. Code: SGS
Major/College Codes: GEP AS
Approved: 2005

CONTACT INFORMATION

College: Arts and Sciences
Departments: School of Geosciences
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Ph.D. degree in Geography and Environmental Science and Policy is an interdisciplinary major, the curriculum of which is designed to take advantage of the School of Geoscience’s (SGS) strengths in critical areas of geography and environmental science and policy, as well as geology. 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 School’s strong emphases in working on solutions to real-world geographical and environmental problems.

Areas of Emphasis:
Geography
Environmental Science and Policy

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- A Master’s degree, or its equivalent, from an approved regionally accredited university with preparation in geography, environmental science and policy, or a related discipline. Highly qualified applicants can enter directly into the doctoral program from a Bachelor’s degree but must complete a minimum of 90 hours prior to obtaining the Ph.D., including the required coursework in either the Geography or Environmental Science and Policy Master’s majors.

- Graduate Record Exam (GRE) taken within the last 5 years

- GPA at least 3.20 in upper division undergraduate and graduate credits

- If non-native English speaker, TOEFL score of at least 79 on internet based test or equivalent for other forms of test or IELTS (minimum score 6.5)

- Completed online application through the USF Graduate Admissions’ webpage

- A letter of intent. The letter should outline the applicant’s specific academic interests and goals and identify faculty members whose interests align with that of the applicant.
• Three letters of recommendation. Arrange to have letters of recommendation sent to the Office of Graduate Admissions online prior to the application deadline. Prospective students should solicit the letters of recommendation from sources who are familiar with the applicant’s academic/work history and performance. Signatures and letterheads are required for letters of recommendation.

Students Upgrading into the Doctoral Degree from the Master’s Degree
After completing a minimum of one semester of course work, an admitted master’s student may apply for the doctoral degree with the consent of his/her major professor (must be the major professor and not simply the initial advisor). When the student applies to the Ph.D. degree, the application is then reviewed by the Graduate Committee via the established application process, and recommendations are made regarding admission to the major and funding.

CURRICULUM REQUIREMENTS

Total Minimum Hours: 60 hours post-Master’s
90 hours post-Bachelor’s

Post-Bachelor’s (Bachelor’s to Ph.D.) (90 minimum hours)
Core Requirements - 12 hours
Electives - 66 hours
Dissertation - 12 hours

Post-Master’s (60 minimum hours)
Core Requirements - 12 hours
Electives - 36 hours
Dissertation - 12 hours

Core Requirements (12 credits)
All students must complete the following courses:
EVR 7021 3 Doctoral Dissertation Preparation
GEO 7606 3 Seminar in Urban and Natural Environments
GEO 6116 3 Perspectives in Environmental Thought
Or GEO 6058 3 Geographic Literature and History

One of these methods courses:
GIS 6100 3 Geographic Information Systems
GIS 6038 3 Advance Remote Sensing
GEO 6119 3 Qualitative Research Methods
GEO 6166 3 Multivariate Statistical Analysis

Electives - 36 credits (post-Master’s); 66 credits (post-Bachelor’s)
Students complete 36 (post-master’s) or 66 (post-bachelor’s) credit hours in the form of elective coursework related to their area of interest. A Minimum of nine (9) structured credit hours is required for students with a master’s degree. Students entering the Ph.D. who have not completed a Master’s Degree in either Geography or Environmental Science and Policy should expect to complete coursework equivalent to the requirements of one of those Masters, in addition to these nine (9) minimum structured credit 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. Students can 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 GEP or another department, as part of their studies.

EVR 6101 Geomorphology for Environmental Scientists
EVR 6216 Advances in Water Policy and Management
EVR 6320 Environmental Management
EVR 6408 Wildlife Ecology
EVR 6922 EPS Capstone seminar

http://www.cas.usf.edu/
EVR 6936  Seminar in Environmental Science  
EVR 6937  Seminar in Environmental Policy  
GEA 6195  Seminar in Advanced Regional Geography  
GEA 6215  Seminar in North American Geography  
GEA 6252  Seminar in the Geography of the American South  
GEA 6406  Seminar in Latin American and Caribbean Geography  
GEA 6504  Seminar in European Geography  
GEA 6745  Asian Geography Seminar  
GEO 6115  Field Techniques  
GEO 6209  Physical Geography Seminar  
GEO 6215  Geomorphology Seminar  
GEO 6217  Karst Geomorphology  
GEO 6255  Weather, Climate, and Society  
GEO 6263  Soils Seminar  
GEO 6286  Advances in Water Resources  
GEO 6288  Hydrological Systems  
GEO 6347  Natural Hazards  
GEO 6345  Technological Hazards and Environmental Justice  
GEO 6428  Seminar in Advanced Human Geography  
GEO 6475  Political Geography Seminar  
GEO 6545  Economic Geography Seminar  
GEO 6605  Contemporary Urban Issues  
GEO 6627  Site Feasibility Analysis  
GEO 6704  Transportation Geography  
GEO 6908  Independent Study  
GIS 5049  GIS for Non-Majors  
GIS 5075  Global Positioning Systems  
GIS 6038  Advanced Remote Sensing  
GIS 6039  Readings in Remote Sensing  
GIS 6103  Programming for GIS  
GIS 6112  Spatial Database Development  
GIS 6146  GIS Seminar  
GIS 6306  Environmental Applications of GIS  
GIS 6307  Socioeconomic Applications of GIS  
GIS 6355  Water Resources Applications of GIS  
GLY 6573  Fluvial Hydrology and Geomorphology  
GLY 6824  Ecohydrology  
GLY 6828  Ground-Water Geochemistry  
CWR 6305  Urban Hydrology  
CWR 6533  Water Quality Modeling  
ECP 6305  Environmental Economics and Policy  
IDS 6215  Seminar in Global Sustainability  
PAD 6338  Urban Land Use and Policy Administration  
PAD 6339  Housing and Public Policy  
PCB 6933  Seminar in Ecology  
PHC 6301  Water Pollution and Treatment  
PHC 6312  Environmental Fate of Chemical Releases  
PHC 6313  Indoor Environmental Quality  
PHC 6353  Environmental Risk Assessment  
POS 5159  Urban Policy Analysis  
URP 6056  City and Regional Planning  
URP 6100  Planning Theory and History  
URP 6115  Planning, Policy and Politics  
URP 6232  Research Methods for Urban and Research Planning  
URP 6930  Special Topics in Urban and Regional Planning  
URP 6940  Internship in Urban and Regional Planning
Doctoral Qualifying Exam
As soon as the substantial majority of the course work is completed, the student must pass a written 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 qualifying examination. 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.

Dissertation hour requirement and directed research (12 Credit hours)
Directed Research hours shall not exceed 50% of the doctoral dissertation hour requirement. Directed research hours cannot retroactively be converted to dissertation hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 7980</td>
<td>Doctoral Dissertation</td>
</tr>
<tr>
<td>GEO 7980</td>
<td>Doctoral Dissertation</td>
</tr>
<tr>
<td>GEO 6918</td>
<td>Directed Research</td>
</tr>
</tbody>
</table>

Other Requirements and Information:

Advising
When a student is admitted to the Major, the student, with the assistance of the Graduate Director, will have an initial advisor based upon mutual interests of the student and faculty member. The role of the advisor is to guide the student in selecting appropriate coursework for his/her program of study and to work with the student in developing research ideas and an eventual dissertation topic. In consultation with his/her advisor, the student will select a committee that will serve not only as the student’s dissertation committee, but as the qualifying exam committee as well (See procedures for Academic Progress for SGS Ph.D. students).

Policy for Taking Graduate Courses outside USF and the Tampa campus
Graduate courses offered at other universities or other USF campuses can have a different focus than those offered on the USF Tampa campus. Students must get approval from their advisors and the Graduate Director prior to taking any outside courses to verify that these courses will count toward their degrees. Additionally, only faculty at the School of Geosciences Tampa campus can serve as the major professor/advisor for graduate students enrolled on the Tampa campus.

COURSES
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
GEOLOGY

Master of Science (M.S.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Spring: October 15*

Fall admission only
*Spring admission available only for students entering the Professional Science Master’s Degree option

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 40.0601
Dept. Code: GLY
Major/College Codes: GLY AS
Approved: 1976

CONTACT INFORMATION

College: Arts and Sciences
Department: Geology
Contact Information: www.grad.usf.edu

*Deadline for students seeking assistantship/fellowship support is one month earlier. Foreign student applicants should provide their materials as early as is feasible to permit time to meet immigration and visa requirements if admitted.

MAJOR INFORMATION

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes that affect our planet.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- 3 letters of recommendation,
- personal statement,
- listing of previous coursework,
- transcripts, and
- GRE required, but no minimum specified.

CURRICULUM REQUIREMENTS

Total Minimum Hours: 30 hours
Core Requirements
Structured coursework, of which at least ten hours must be at 6000 level, selected with the advisor from the following list, or other course as approved by the Graduate Director:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 5786</td>
<td>Geological Field Excursion</td>
<td>2</td>
</tr>
<tr>
<td>GLY 5865</td>
<td>Statistical Models in Geology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 5932</td>
<td>Selected Topics in Geology</td>
<td>1-4</td>
</tr>
<tr>
<td>GLY 6075</td>
<td>Greenhouse-Icehouse Earth</td>
<td>3</td>
</tr>
<tr>
<td>GLY 6156</td>
<td>Geology of North America</td>
<td>2</td>
</tr>
<tr>
<td>GLY 6246</td>
<td>General Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GLY 6248</td>
<td>Sedimentary Geochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

http://www.cas.usf.edu/
GLY 6255  Tracer Geochemistry 3
GLY 6285C  Analytical Techniques in Geology 3
GLY 6345  Sedimentary Petrography 3
GLY 6395C  Topics in Igneous and Metamorphic Petrology 2-4
GLY 6424  Global Tectonics 2
GLY 6475C  Principles of Applied Geophysics 4
GLY 6492  Hydrogeology Internship Project 3
GLY 6573  Fluvial Hydrology and Geomorphology 3
GLY 6575C  Coastal Sedimentation 3
GLY 6739  Selected Topics in Geology 1-4
GLY 6824  Ecohydrology 3
GLY 6827C  Advanced Hydrogeology 4
GLY 6828  Ground-Water Geochemistry 3
GLY 6836  Numerical Modeling of Hydrogeologic Systems 3
GLY 6905  Independent Study 1-19

**Thesis Option:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 6971 Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**Professional Science Masters (PSM) Degree Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 6xxx  Introduction to Professional Geology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 6492  Professional Internship Research Project</td>
<td>3</td>
</tr>
</tbody>
</table>

The Professional Internship projects are typically supervised by a Professional Geologists (PG) and must receive prior approval by the internship coordinator. The student must submit an Internship Project Report approved by the supervising PG. The student must then present the results of their projects at an evening public meeting hosted by the Geology Alumni Society typically at the Southwest Florida Water Management District (SWFWMD) Tampa office.

**Comprehensive Exam**

For students in the thesis option, the thesis defense serves as the comprehensive exam. For students in the Professional Science Master’s Degree option, the comprehensive exit exam is based on coursework and an internship project. Before the exam, the student must submit an Internship Project Report approved by the supervising PG. The 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.

**Other Information:**

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 major 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,形成 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.

**COURSES**

See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
GEOLOGY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
- Fall: February 15
- Spring: October 15
- Summer: February 15

Minimum Total Hours: 60 (post-master’s)
90 (post-bachelor’s)

Program Level: Doctoral
CIP Code: 40.0601
Dept. Code: GLY
Program (Major/College): GLY AS
Approved: 1976

CONTACT INFORMATION

College: Arts and Sciences
Department: Geology
Contact Information: www.grad.usf.edu

*Deadline for students seeking assistantship/fellowship support is one month earlier. Foreign student applicants should provide their materials as early as is feasible to permit time to meet immigration and visa requirements if admitted.

MAJOR INFORMATION

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes that affect our planet.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- 3 letters of recommendation,
- personal statement,
- listing of previous coursework,
- transcripts, and
- GRE is required, but no minimum specified.

CURRICULUM REQUIREMENTS

Total Minimum Hours:
60 hours post master’s
90 hours post bachelors

Post-Master’s
Core requirements
Structured coursework, of which at least fifteen hours must be at 6000 level, selected with the advisor from the following list, or other graduate course as approved by the Graduate Director:

GLY 5752 (GLY 5786 as of Jan 2017)
GLY 5865 Statistical Models in Geology
GLY 5932 Selected Topics in Geology
GLY 6075 Greenhouse-Icehouse Earth

Geological Field Excursion 2
3
1-4
3
COURSES

See http://www.ups.usf.edu/course-inventory/
GOVERNMENT

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 5
Fall admissions only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 72-hours post-bachelors
Level: Doctoral
CIP Code: 45.0901
Dept. Code: IGS
Major/College Codes: GOV AS
Approved: 2009

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Interdisciplinary Global Studies (SIGS)
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Contact department for information.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

Students apply for admission directly into the Ph.D.. Those who are interested in first earning a Master’s in Political Science need to apply to that major separately.

Applicants must submit
• a completed application,
• 2 official transcripts from their undergraduate or graduate institutions,
• GRE Required
• 3 letters of recommendation (from academic sources or from those able to judge the applicant’s academic abilities),
• a 500 word personal statement expressing reasons for pursuing a Ph.D. in Government at the University of South Florida, and
• a writing sample

A Master’s degree in Political Science, Public Administration, International Studies, or a related field will count favorably towards admission, but it is not a requirement for admission.
CURRICULUM REQUIREMENTS

Total Minimum hours - 72 credit hours post-bachelor’s

Core – 6 hours
Disciplinary Requirements – 9 hours
Methods – 9 hours
Major Field – 9 hours
Minor Field – 6 hours
Electives – 9 hours
Teacher Training – 3 hours
Capstone – 3 hours
Dissertation – 18 hours

Core Requirements - 6 credit hours
POS 6735 3 Foundations of Political Inquiry
POS 6933 3 Selected Topics in Political Science: Interdisciplinary Professional Seminar

Disciplinary Requirements - 9 credit hours
Select three of the following:
POS 6045 3 Seminar in American Government
POT 6007 3 Seminar in Political Theory
INR 6007 3 Seminar in International Relations
CPO 6091 3 Seminar in Comparative Politics

Methods Requirements - 9 credit hours
POS 6746 3 Quantitative Analysis I
POS 6707 3 Qualitative Analysis

Select one of the following:
POS 6933/6747 3 Advanced Topics in Quantitative Political Analysis
POS 6942 3 Field Work in Political Science & Public Admin
AFA 6355 3 African American Community Research: Ethnography
Or other graduate course approved by the Graduate Director

Major Field - 9 credit hours
The options for major field are International Relations, Comparative Politics, American Government and Political Theory. With graduate committee approval, students will be encouraged to take courses in other disciplines.

Minor Field - 6 credit hours
The options for minor field are International Relations, Comparative Politics, American Government and Political Theory. With graduate committee approval, students will be encouraged to take courses in other disciplines.

Electives - 9 credit hours
Students will enhance their major or minor areas of specialization with a three credit hour course With graduate committee approval, students will be encouraged to take courses in other disciplines.

Students Teacher Training Requirement - 3 credit hours
POS 6933 Selected Topics in Political Science

Foreign Language
All students must demonstrate competency in at least one foreign language. Students must pass the competency exam administered by the World Language Education Department. Additionally, students, whose research focuses on a particular area of the world, must be proficient in language(s) native to that region.

http://www.cas.usf.edu/
Comprehensive Exam
All students must pass a comprehensive examination, consisting of two separate exams, to be administered on consecutive days, one in their major field and one in their minor field. Major Field exams will be limited to 8 hours and minor field examinations will be limited to 6 hours. A standing committee of faculty members composes and grades those exams.

Selected Topics/Capstone - 3 credit hours
POS 6933  3  Selected Topics in Political Science

Dissertation Proposal – Capstone Interdisciplinary Seminar
Students will enroll in POS 6933 as their Capstone Interdisciplinary Seminar. During the Seminar, students develop their dissertation proposals. Students must present their dissertation proposal to their dissertation committee and obtain consent from all committee members before proceeding to the dissertation work.

Dissertation - 18 credit hours
POS 7980  18  Dissertation
Students must present their dissertation at an oral defense, and their committees determine whether the student passed. Finally, students must submit written copies of their dissertation with signature of their committee members. All dissertations must conform to University of South Florida format rules.

COURSES
See http://www.ugs.usf.edu/course-inventory/
HISTORY

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: December 1
Fall admission only

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 54.0101
Dept. Code: HTY
Major/College Codes: HTY AS
approved: 1969

Concentrations:
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

MAJOR 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 a 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 Worlds
Field 6: Modern Europe since 1789
Field 7: Latin America

Across these fields, students can request, in consultation with their major professor, concentrations organized thematically or geographically.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- GPA of at least 3.00
- GRE Scores of at least 160 (85th percentile) Verbal, 144 (18th percentile) Quantitative, and 4.5 (80th percentile) in writing. Only current scores within the last 5 years will be accepted.
- **Letters of Recommendation:** Two letters of recommendation on behalf of the applicant are required. These letters should come from academic sources familiar with the quality of the applicant’s college-level work and indicate his/her graduate program potential. Once the online application is completed, requests for recommendations will be emailed to recommenders.

- **Statement of Purpose:** A two-page statement is required that delineates historical and intellectual areas of interest, proposed fields of study, educational and professional goals, the faculty with whom the applicant is potentially interested in working, and why the applicant sees him/herself as a good fit with our program.

- **Writing Sample:** A sample of written work which indicates the applicant’s ability to write effectively and preferably, to conduct historical research and analysis must be submitted. The sample should be approximately 15 pages in length. Appropriate examples include a term paper, research paper, or thesis chapter.

A B.A. in History is preferred. The Department will consider applicants without a recent background in undergraduate history, but they may be required to complete Theory of History (HIS 4104) as well as some upper division and/or graduate level courses in relevant fields with a grade of “B” or higher. These will be determined in consultation with the Graduate Director or Major Professor.

**CURRICULUM REQUIREMENTS**

Total Minimum Hours: 30

Core Course – 3 hours

Concentrations – 21 hours

Thesis/non-thesis – 6 hours

**Core Course Requirement (3 hours)**

HIS 6112 3 Analysis of Historical Knowledge

**Concentrations (21 hours)**

Students may select from the following Concentration areas:

- **American History (AHY)**
- **Ancient History (AHS)**
- **European History (EHS)**
- **Latin American History (LAH)**
- **Medieval History (MHS)**

Students complete coursework for the Major and Minor fields, in the concentration they choose.

**Major Field (15 hours – any combination of the following):**

- HIS 6939 3 Seminar in History
- HIS 6925 3 Colloquium in History

**Minor Field (6 hours – any combination of the following):**

- HIS 6939 3 Seminar in History
- HIS 6925 3 Colloquium in History

**Other Requirements**

Of the 30 hours required for the Master of Arts, at least 20 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. Students may take a maximum of 6 hours in HIS 6914 Directed Research and/or HIS 6908 Independent Study and a maximum of 6 hours in HIS 6925 Colloquia.

After beginning course work, M.A. students select an advisor in their anticipated major field of study. Students arrange their programs and schedules of appropriate courses with their major professor. Additionally, the student in consultation with the major professor asks on or two other members (normally one from the major and one from the minor fields) to serve
on a supervisory committee. The student is required to have completed successfully at least 3 credits of course work with each member of his/her committee. Students with two unresolved “Incomplete” grades (of any credit total) will not be permitted to register for additional history courses until at least one “Incomplete” grade is resolved.

Students may opt to do either a thesis or non-thesis tract.

**Thesis** (6 hours)
HIS 6971 6 Thesis

**Non-Thesis** (6 hours)
Any combination that totals six hours:
HIS 6939 3 Seminar in History
HIS 6925 3 Colloquium in History
HIS 6914 3 Directed Research
HIS 6908 3 Independent Study

**Comprehensive Examinations:**
A six-hour written comprehensive examination will consist of answering two questions in a major field and one in a minor field. In addition, at the discretion of the committee, an oral examination may be administered. The examination questions and student answers will form part of the student’s Department file. A student must have no “incomplete” grades and be enrolled for a minimum of two (2) hours during the term the comprehensive examination is taken.

**Language Requirements:**
M.A. students must demonstrate a reading proficiency in one foreign language most applicable to a student’s field of research (as determined by the Major Professor). The language requirement will be fulfilled in one of two ways:

1) A two-hour examination administrated by the Department. The student will be expected to translate satisfactorily a 500-word passage, with the assistance of a dictionary.

2) With the approval of the major professor, the student may take two semesters of an intermediate level foreign language. In order to fulfill the foreign language requirement, the student must receive a “B” or above in each semester’s course. Those students who have met these requirements as an undergraduate may have the language requirement waived by petitioning the Graduate Committee.

Students with a major field in American History and with a thesis topic that does not require the 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 5486 3 Quantitative Methods in Anthropology
EDF 6407 4 Statistical Analysis in Educational Research
POS 6736 3 Political Research Methods
MAT 5932 3 Selected Topics

**Graduation and Master’s Thesis:**

- A satisfactory performance in the core course, two fields, and the completion of a comprehensive examination are required of all M.A. students for graduation.
- In order to graduate, a student must apply for graduation through OASIS using their Net ID and self-assigned password by the deadline noted in the Academic Calendar for the term during which graduation is anticipated.
- Students selecting the thesis option must follow the final submission process in the Office of Graduate Studies to be considered for graduation. For information refer to the Office of Graduate Studies website [www.grad.usf.edu](http://www.grad.usf.edu)
- Students may not participate in commencement unless all requirements have been satisfactorily completed.
- All requirements for master’s degrees must be completed within five (5) calendar years from the student’s date of admission for graduate study.

**COURSES** See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
HISTORY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: December 1
Fall admission only

Minimum Total Hours: 72 (post-bachelor's)
42 (post-masters)

Level: Doctoral
CIP Code: 54.0101
Dept. Code: HTY
Major/College Codes: HTY AS
Approved: 2009

CONTACT INFORMATION

College: Arts and Sciences
Department: History
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The History Department’s nationally and internationally recognized faculty creates a dynamic learning environment that fosters close interaction between students and professors. Our Ph.D. features an innovative model of doctoral education designed to insure broad interdisciplinary connection with related disciplines. We pride ourselves on training students to be scholars and teachers at all levels of education, while also offering preparation for careers outside academia in government agencies, historical societies, libraries and museums. The addition of training and internship opportunities in digital humanities is also designed to introduce students to tech industries as well.

Our faculty have expertise in a wide range of period, regional, and thematic specializations. Students may organize their major and minor fields around traditional chronological and regional specialties such as Ancient, Medieval, and Early Modern Worlds; Colonial through Modern U.S.; Latin America; and Modern Europe, but they may also build their fields around themes in such areas as digital humanities, gender and sexuality, race and ethnicity, regional history, science and medicine, comparative empires, and public history.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- **Graduate Coursework and Grade Point Average:** Applicants must have completed at least 18 hours of graduate credit before entering the Ph.D. and should have earned at least a 3.50 in their history courses as demonstrated by official transcripts.

- **Letters of Recommendation:** Applicant must solicit three letters of recommendation on his/her behalf. These letters should come from academic sources familiar with the quality of the applicant’s scholarly work and indicate his/her doctoral major potential. The online application must be completed before the system will send requests to submit to recommenders.
• **Statement of Purpose**: The applicant must submit a statement that indicates his/her historical and intellectual areas of interest, outline proposed fields of study, educational and professional goals, names the faculty with whom the applicant is potentially interested in working, and explains why the applicant sees him/herself as a good fit with our major.

• **Sample of Writing**: Applicants must submit a sample of written work that indicates the applicant’s ability to conduct primary source based research and to write effectively. The sample may include a publication, seminar paper, or a thesis chapter but ought not be longer than 30 pages.

• **Language**: Applicants will provide evidence of proficiency in the foreign language(s) of their primary field of study.

**Students Advancing directly into the Doctoral Program from the Master’s Degree Program**

After completing a minimum of 18 graduate hours, an admitted MA student may apply for the doctoral major with the consent of his/her major professor (must be the major professor and not simply the initial advisor). The standard University application process and fees apply. When the student applies to the Ph.D., the application is then reviewed by the Graduate Committee via the established application process, and recommendations are made regarding admission to the major and funding.

**CURRICULUM REQUIREMENTS**

Total Minimum Hours: 72 -post-baccalaureate (42 hours post-masters)

Core Requirements – 6 hours
Major and Minor Fields – 39 hours
Capstone – 3 hours
Dissertation – 18 hours

**Plan of Study**

In addition to the general requirements of the University as explained in the USF Graduate Catalog, a candidate is required to complete a total of 72 post-baccalaureate credit hours. The following distribution assumes that the applicant has already earned an MA or completed 30 credit hours of post-baccalaureate coursework. Up to 30 hours of M.A. level work may be counted towards the total 54 hours of required coursework. Students must petition the Graduate Director for an MA level course audit to determine which courses will be counted against the 54 hours. These 30 hours must be from structured coursework and students must have earned at least a 3.0 in each. Adjustments will be made for MA students who have not yet finished their degrees:

**Core Requirements – 6 hours**
HIS 7937 Interdisciplinary Ph.D. Pro-Seminar 3 hours
This course is an introduction to the interdisciplinary nature of this unique Ph.D., and will offer new students to the History major the opportunity to engage with their colleagues in Government and International Affairs. This Pro-Seminar is organized around one common theme and focuses on the methodologies and theories of these related disciplines to educate students as to the complementary aspects of these fields.

HIS 6112 Analysis of Historical Knowledge 3 hours
*Analysis of Historical Knowledge* examines both the theories behind and the practical methodological approaches in historical research. If a student has satisfactorily completed HIS 6112 Analysis of Historical Knowledge before admission into the Ph.D., it will be waived. If the student has taken a similar course elsewhere, this requirement may be waived subject to the approval of the Graduate Director.

**Major and Minor Field Studies – 39 hours**

Students will complete at least five courses devoted to their major and minor fields of study. A student must have a minimum of six (6) History credit hours in her major historical field and 3 in her minor. The remaining 3-6 hours may be filled by either by the HIS 7289 Seminar in Comparative Studies course or with 6000 or 7000 level courses from outside the Department, or by a combination of these courses. The electives must be selected in consultation with the student’s Major Professor and approved by the Graduate Director.
Major Field Studies: 24 credit hours in the following variable topic courses that pertain to the student’s major:

- HIS 6935 Graduate Reading Seminar in History 3 hours
- HIS 6939 Seminar in History 3 hours
- HIS 7939 Selected Topics for Doctoral Students 3 hours

Minor Field Studies: 15 credit hours in the following variable topic courses that pertain to the student’s minor:

- HIS 6935 Graduate Reading Seminar in History 3 hours
- HIS 6939 Seminar in History 3 hours
- HIS 7939 Selected Topics for Doctoral Students 3 hours

Electives: 6 hours of any combination of the following.

- XXX XXXX Graduate level elective 3 hours
  This course must not be offered by History department and should be selected in conjunction with Major Professor and approved by the Graduate Director. The interdisciplinary elective must in some way pertain to the student’s major or minor field.
- HIS 7289 Seminar in Comparative Studies 3 hours
  This course compares issues such as globalization, imperialism, identity, urbanization, etc. as expressed through a range of historical period and regions.

HIS 7938 Ph.D. Capstone Seminar 3 hours

Students in this course will develop their dissertation prospectus in consultation with their Major Professor. History, School of Interdisciplinary Global Studies and Sociology faculty members will take turns teaching the course each year.

Language Requirement for Ph.D. Students

Students must demonstrate proficiency in their primary language of research by the end of the first year of study. In fields where more than one language is required, students must complete their language exams before they can take the comprehensive exam. Language requirements must be fulfilled before students can progress to the dissertation stage. Written examinations to test a student’s language proficiency will be administered either by the History Department or through the USF Dept. of World Languages. The precise format of the exam and the level of language competency needed to pass will be determined in each case by the student’s advisor.

<table>
<thead>
<tr>
<th>Field</th>
<th>Language(s) Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ancient</td>
<td>Classical Greek, Classical Latin, French, and German</td>
</tr>
<tr>
<td>Byzantine</td>
<td>Byzantine Greek, Latin, French, and German</td>
</tr>
<tr>
<td>Early Modern Europe</td>
<td>Primary European language of research plus one additional European language (Latin may be required in some cases)</td>
</tr>
<tr>
<td>Modern Europe</td>
<td>Primary European language of research plus on additional European languages</td>
</tr>
<tr>
<td>Latin America</td>
<td>Spanish and Portuguese</td>
</tr>
<tr>
<td>Medieval Europe</td>
<td>Medieval Latin, plus two additional European languages</td>
</tr>
<tr>
<td>Middle East</td>
<td>Primary Middle Eastern language of research plus one additional language</td>
</tr>
<tr>
<td>United States</td>
<td>Foreign language most pertinent to research agenda</td>
</tr>
</tbody>
</table>

With the approval of their Major Professor, students may fulfill their foreign language with the successful completion (a “B” or above) in a quantitative methods course. This course will not count towards the required 54 hours of coursework. Any one of the following courses will satisfy the requirement.

- ANG 5486 Quantitative Methods in Anthropology 3 hours
- EDF 6407 Statistical Analysis in Educational Research 4 hours
- LIN 7639 Quantitative Methods in Applied Linguistics 3 hours
- POS 6736 Political Research Methods 3 hours
- MAT 5932 Selected Topics 3 hours
- Or other graduate course approved by Graduate Director

Comprehensive Exam
- Before taking comprehensive exams, student must have completed a majority of their coursework.
• Exams will be conducted by the student’s Supervisory Committee. The oral exams shall be taken within one week after the written exams have been completed. Exams may be retaken once if necessary.

**Dissertation Proposal**

Students must complete an oral dissertation defense with the members of the dissertation committee. Dissertation committees must be composed of a minimum of four faculty members, one of whom may be drawn from an academic institution other than USF. Faculty from fields other than History may serve on dissertation committees upon approval of the Graduate Director.

**Dissertation – 18 credit hours**

**HIS 7980** 18 **Dissertation Writing Hours**

These hours are intended to give students the opportunity to work closely with their dissertation committee and focus on research, writing, and revision.

**Timeframe**

All requirements must be completed within the university-mandated time frame after admission to the Ph.D.

**COURSES**

See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
INTEGRATIVE BIOLOGY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
- Fall: November 30
- Spring: July 1
- Summer: No Admission

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 90
Level: Doctoral
CIP Code: 26.1399
Dept Code: BIO
Major/College Codes: IBO AS
Approved: 2014

Concentrations:
- Ecology and Evolution (EEV)
- Environmental and Ecological Microbiology (EVM)
- Physiology and Morphology (PMY)

CONTACT INFORMATION

College: Arts and Sciences
Department: Integrated Biology (IB)
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Major Research Areas: Ecology and Evolution, Environmental and Ecological Microbiology, and Physiology and Morphology,

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- It is expected that candidates for the Ph.D. degree will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.
- 3.00 GPA last 60 hours of B.S. degree.
- GRE: 70%V, 70%Q, 70% AW
- Acceptance by a faculty member in the Department of Integrative Biology is mandatory. Students are expected to contact faculty via email to indicate an interest in the research being conducted in their laboratory. The Department will make every effort to pair potential graduate students with appropriate faculty.
- All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score a minimum of at least 570 on the paper based or a minimum total score of 88 on the internet-based test TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.
CURRICULUM REQUIREMENTS

Total Minimum Hours 90 hours post-bacc

The graduate student, major professor and Graduate Committee will establish the specific course requirement for each graduate student. Every graduate student must satisfy minimum course requirements. The Graduate Committee consists of four individuals; three must be members of the Integrative Biology Department.

Core Requirements 8 hours
PCB 6456C Biometry I 4
BSC 6932 Lectures in Contemporary Biology (1) – take 4 times 4
Enrollment in this course is required during four semesters of residency

Additional Structured Coursework 6 hours
An additional six hours of structured coursework is required. The structured courses are listed below for each of the three concentrations. The Major Professor and Graduate Committee may approve courses from outside the Department to satisfy this requirement. Doctoral students typically will take 20-25 semester hours of coursework selected from the lists of courses presented below. The remainder of the required 90 hours is obtained through research credits.

Concentrations
Students select from one of the following Concentrations:

ECOLOGY AND EVOLUTION (EEV)
A minimum of two courses selected from the list below for a minimum of 6 credit hours.

Any course approved by the Graduate Committee.
BSC 5931 – Conservation Biology 3
BOT 5185 – Marine Botany 4
PCB 6455 – Statistical Ecology 3
PCB 6458 – Biometry II 3
BSC 5931 – Comparative Approaches in Evolution 3
PCB 6426 – Population Ecology 3
ZOO 5463 – Herpetology 4
ZOO 5456 – Ichthyology 4
BSC 6932 – Advances in Population Biology 1
BSC 6932 – Advances in Ichthyology 1
BSC 6932 – Advances in Herpetology 1
BSC 6932 – Advanced in Marine Ecology 1
BSC 6932 – Scientific Writing 2
BSC 6932 – Restoration Ecology 3
BSC 6447 - Community Ecology 3
PCB 6933 – Seminar in Ecology (variable credit)

ENVIRONMENTAL AND ECOLOGICAL MICROBIOLOGY (EVM)
A minimum of two courses selected from the list below for a minimum of 6 credit hours.

Any course approved by the Graduate Committee.
MCB 5206 – Public Health and Pathogenic Microbiology 3
MCB 5655 – Applied and Environmental Microbiology 3
PCB 5235 – Principles of Immunology 3
MCB 6930 – Seminar in Applied and Ecological Microbiology 1
PCB 6525 – Molecular Genetics 3
BSC 5931 – Genomics 4
PCB 6455 – Statistical Ecology 3
PCB 6458 – Biometry II 3
BSC 6932 – Scientific Writing 2
BSC 6932 – Advances in Environmental Ecology 1

PHYSIOLOGY AND MORPHOLOGY (PMY)
A minimum of two courses selected from the list below for a minimum of 6 credit hours.

Any course approved by the Graduate Committee.

PCB 6458 – Biometry II 3
BSC 6932 – Scientific Writing 2
ZOO 5463 – Herpetology 4
ZOO 5456 – Ichthyology 4
ZOO 54xx – Ornithology 3
PCB 5256 – Developmental Biology 3
BSC 6932 – Physiological Ecology 3
BSC 6932 – Advances in Physiology 1
BSC 6932 – Ecoimmunology 3
BSC 5931 – Comparative Approaches in Evolution 3
BSC 5931 – Ecological and Functional Morphology 3

Qualifying Exam
All students in the IB Ph.D. degree must complete a qualifying examination. Successful completion of the preliminary doctoral examination by the end of the 4th semester. The exam consists of 3 parts:

1. Dissertation proposal
2. Seminar/presentation of proposal
3. Defense of dissertation proposal

Admission to Candidacy
The doctoral student is eligible for admission to candidacy after completing structured course requirements, passing the qualifying examination and approval by the supervisory committee. Appropriate forms to document promotion to candidacy must be completed and to the Office of Graduate Studies. 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 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.

Dissertation Requirement

BSC 7980 Dissertation - 24

Doctoral Seminar and Defense.
All doctoral students must present a public seminar to the IB Department and must be enrolled in BSC 7980, during the semester in which the seminar is given. 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. Following the
defense, students will make any editorial modifications to the dissertation as recommended by the supervisory committee and submit the dissertation to the Office of Graduate Studies.

**Dissertation**
Submission of a doctoral research proposal must be approved by the Major Professor, Graduate Committee, and Graduate Director. Successful completion of the dissertation proposal, presentation of a dissertation seminar and passing the doctoral examination enables the student to become a doctoral candidate. Submission of an acceptable dissertation, presentation of the doctoral seminar (BSC 7936) and successful defense of the dissertation enable the student to obtain the Ph.D. Degree.

**Other Requirements**

**Presentation requirement:**
Two presentations, excluding the doctoral seminar and defense are required. Students are expected to present posters or oral presentations based on their dissertation research at two national/regional professional meetings. The Graduate Committee must approve the presentation.

**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 student’s supervisory committee must approve the paper prior to submission. The Graduate Committee must approve the journal to which the paper is submitted.

**COURSES**
For an updated list of course offerings see: [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
INTELLIGENCE STUDIES

Master of Science (M.S.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: June 1
Spring: October 15
Summer: February 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 36
Level: Masters
CIP Code: 11.0401
Dept Code: LIS
Major/College Codes: ILS / AS
Concentrations:
Cyber Intelligence CYI
Strategic Intelligence SGI

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Information
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Master of Science (MS) in Intelligence Studies is an online, applied graduate major designed to train a “next generation” of information and intelligence professionals for the private and public sectors. USF’s Intelligence Studies major is built around an innovative STEM-based model for professional analytic education. The curriculum focuses primarily on developing analytic competencies, and subsequently allows students to focus on specialized subject-matter areas. The principal aim is to train problem-solvers who understand strategic concepts and analytic methodologies and can apply that knowledge to advance an organization’s interests and objectives. Graduates will be capable of developing and evaluating new knowledge; generating and analyzing courses of action; expressing clearly reasoned opinions; and communicating effectively in writing, oral presentation, and visual display.

Major Research Areas: Strategic Intelligence, Cyber Intelligence, Intelligence Analysis, Information Studies, Information Analytics, Cybersecurity

ADMISSIONS INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- 3.00 minimum undergraduate GPA
- 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 or 550 on the paper-based test are required. Applications submitted with TOEFL scores that do not meet the minimum requirements will be denied. The TOEFL requirement may be waived if the applicant meets one of the following conditions:
  - Applicant’s native language is English, or
  - Has scored 500 or higher on the GRE Verbal test, or
  - Has earned a college degree at a U.S. institution of higher learning, or,
  - Has earned a college degree from an institution whose language of instruction is English (must be noted on the transcript) or
  - Has scored 6.5 on International English Language Testing System (IELTS) http://www.ielts.org/
• GRE is not required
• 250-500 word essay describing academic and professional background, reasons for pursuing the degree, and professional goals pertaining to intelligence, analytics, and/or information
• Professional resume or CV
• Students applying to the Cyber Intelligence Concentration must also have technical knowledge, to include a basic understanding of:
  o Programming/coding (e.g. Python, Java, C++), computational problem solving, and of
  o major computer Operating Systems and how they function

CURRICULUM REQUIREMENTS

Minimum Hours - 36 hours

Core Requirements – 18 hours
Concentrations - 6-12 hours
Electives – 6-9 hours
Comprehensive Exam/Capstone- 3 hours
Internship – 3 hours
Courses may be taken online or on-campus, pending availability.

Core Requirements - 18 hours
LIS 6700 3 Information, Strategy, and Decision Making
LIS 5937 3 Information Analytics (using R)
LIS 5937 3 Advanced Information Retrieval
LIS 6260 3 Information Science Foundations
LIS 6937 3 Project Management
LIS 6107 3 Advanced Professional and Technical Communication for Analysts

Concentrations
Students select from the following Concentrations:

Strategic Intelligence - 6 hours
LIS 6703 3 Core Concepts in Intelligence
LIS 6702 3 Advanced Intelligence Analytic Methods (as restricted elective for “methods”)

Cyber Intelligence - 12 hours
LIS 6709 3 Cyber Intelligence
LIS 6670 3 Advanced Cyber Intelligence
LIS 6703 3 Core Concepts in Intelligence
LIS 6702 3 Advanced Intelligence Analytic Methods (as restricted elective for “methods”)

Electives - 6 to 9 hours
There is one restricted elective in analytic methods (LIS 6702). In addition to the required elective noted in the Concentrations, students in the Strategic Intelligence concentration can take an additional 6 hours of approved electives

Thesis/Non-Thesis: No thesis is required.

Comprehensive Exam - 3 hours
LIS 6906 3 Independent Study Internship (or equivalent) - Capstone (Integrated Portfolio of Competencies)
The successful completion of the Capstone Portfolio serves in lieu of the Comprehensive Exam.

Internship - 3 hours
LIS 6946 3 Supervised Field Work - Experiential Learning (Internship or Equivalent)

COURSES
See http://www.ugs.usf.edu/course-inventory/
LATIN AMERICAN, CARIBBEAN, AND LATINO STUDIES

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: June 1
Spring: October 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 36
Level: Masters
CIP Code: 5.0107
Dept. Code: IGS
Major/College Codes: LAS AS
Approved: 2000

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Interdisciplinary Global Studies
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The mission of ISLAC is to promote research and study in and about Latin America and the Caribbean. ISLAC is an academic unit devoted to interdisciplinary 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.

The Institute fosters greater knowledge of Latin America and the Caribbean and Latino issues, through partnerships with community organizations and other USF departments to sponsor lectures and cultural events that are open to the public throughout the year. We also support graduate students and faculty research in the area, and provide opportunities for Latin Americanist scholars at USF to collaborate and disseminate their work.

Faculty Interests Include:
ISLAC’s affiliate faculty members are drawn from the social sciences, humanities, arts, and human service fields. We include faculty from the following departments: History, Spanish-American and Caribbean Languages and Literature, Humanities, Anthropology, Political Science, Sociology, Economics, Business, Geography, Public Administration, Fine Arts, Public Health, Education, Africana Studies, Women’s and Gender Studies and Mental Health.

Research Areas:
Includes, but is not limited to: Afro-descendants in Latin America and the Caribbean, transatlantic studies, human rights, citizenship, race and ethnicity, education and public health migration and Diaspora.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- 3.00 GPA
- three letters of recommendation
- statement of purpose
- resume
- GRE not required, but suggested for full financial consideration
CURRICULUM REQUIREMENTS

Total Minimum Hours: 36

Core – 9 credit hours
Specialization – 12 credit hours
Electives – 9 credit hours
Thesis/Non-Thesis – 6 credit hours

Core Requirements - (9 credit hours)

- **LAS 6220** 3 Issues and Perspectives in Latin American Studies
- **LAS 6936** 3 Seminar in Latin American Studies
- Methods 3 (the methods class must be approved by the Graduate Director)

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

Students will also take a three (3) hour methodology course that acquaints them with particular research relevant to their major field of study 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. The methods class has to be approved by the Graduate Director.

Specialization - (12 credit hours)

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 specialization 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’s and Gender Studies, Global Health, Philosophy, Economics, History, World Languages, Humanities and American Studies, Art History, Africana Studies and Education. Students may also request to have courses from other departments count toward major or minor fields.

Electives - (9 credit hours)

Students can take three electives from outside the major field. These might be technical courses, study abroad courses, internships, math and science courses, methodology, or another unrelated field. Elective courses must be approved by the Graduate Director. To count towards this degree, 50% of the course content must focus on Latin America, the Caribbean, or Latinos. Eligible courses include, but are not limited to those listed under specialization.

The following are sample specialization and electives courses.

- **AFA 6932** 3 Topics in Africana Studies
- **AFA 6120** 3 Social Theory and Social Thought
- **AMS 6156** 3 Theories and Methods in Cultural Studies
- **ANG 6701** 3 Contemporary Applied Anthropology
- **HIS 6939** 3 Seminar in History
- **HUM 6801** 3 Theories and Methods of Cultural Studies
- **INR 6690** 3 Research Seminar in Globalization
- **PHC 6934** 1-6 Selected Topics in Public Health
- **POS 6933** 3 Selected Topics in Political Science
- **SYA 6933** 3 Selected Topics - Sociology
SYD 6605  3  City and Community
SYO 6255  3  Seminar in Sociology of Education
WST 6560  3  Advanced Feminist Theory
SPW 5135  3  Colonial Spanish American Literature
SPW 5934
SPW 6806  3  Introduction to Hispanic Graduate Studies
SPW 6775  3  Caribbean Literature
EDF 6883  4  Issues in Multicultural Education
Or other courses approved by the Graduate Director.

To count towards this degree, 50% of the course content must focus on Latin America, the Caribbean, or Latinos.

**Thesis/Non Thesis - (Minimum of 6 credit hours):**

**Thesis:**
LAS 6971  6  Thesis: Master’s

Students must enroll in LAS 6971 Thesis: Master’s for a minimum of 6 credit hours. In their thesis, students must provide 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 Graduate 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.

**Non-Thesis:**
Students who choose a non-thesis option will be required to complete an additional 6 hours of course work at the 6000 level.
TBA  3  Elective structured class approved by the Graduate Director
LASA 6913  3  Independent Study – Literature Review of approximately 50 pages

The student is required to demonstrate competency by successfully completing a substantial literature review in his or her field of concentration.

**Comprehensive Examination**
For students in the thesis option, successful completion of the Thesis serves in lieu of the Comprehensive Exam. For students in the non-thesis option, the extensive literature review determines competency and serves as the equivalent of a comprehensive examination.

**Foreign Language Requirement**
At the time of graduation, students must submit proof of proficiency in Spanish, Portuguese, or another language spoken in Latin America or the Caribbean.

**COURSES**
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/) or [http://shell.cas.usf.edu/islac/](http://shell.cas.usf.edu/islac/)
LIBERAL ARTS

Master of Arts (M.A.) Degree

<table>
<thead>
<tr>
<th>DEGREE INFORMATION</th>
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</thead>
<tbody>
<tr>
<td><strong>Priority Admission Application Deadlines:</strong></td>
<td><strong>College:</strong> Arts and Sciences</td>
</tr>
<tr>
<td>Fall: February 15</td>
<td><strong>Departments:</strong> Humanities and Cultural Studies</td>
</tr>
<tr>
<td>Spring: October 15</td>
<td>School of Interdisciplinary Global Studies (SIGS)</td>
</tr>
<tr>
<td>Summer: February 15</td>
<td><strong>Contact Information:</strong> <a href="http://www.grad.usf.edu">www.grad.usf.edu</a></td>
</tr>
</tbody>
</table>

International applicant deadlines: [http://www.grad.usf.edu/majors](http://www.grad.usf.edu/majors)

Minimum Total Hours: 33  
Level: Masters  
CIP Code: 24.0101  
Dept. Code: HCS  
Major/College Codes: MLA AS  
Approved: 1984

Concentrations:  
- Africana Studies (AFT)  
- American Studies (AME)  
- Film Studies (FLM)  
- Humanities (HTS)  
- Social and Political Thought (SPT)

Also offered as an Accelerated Major:  
BA in Humanities and Cultural Studies / MA in Liberal Arts: Film Studies Concentration

MAJOR INFORMATION

The Master of Arts (M.A.) offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Five program concentrations are available: Africana Studies (AFT), American Studies (TBA), Film Studies (FLM), Humanities (HTS), Social and Political Thought (SPT).

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Upper division undergraduate GPA of 3.00
- Applicants are required to take the GRE as part of the application process and matter of record.
- Contact individual concentration advisors for possible additional requirements (e.g., transcripts, recommendations, preferred GRE Scores, writing samples, etc.)
- Students must select a concentration at the time of application
CURRICULUM REQUIREMENTS

Total Minimum Hours - 33
Core requirements – 3 hours
Concentration – 30 hours

Core Requirements - 3 hours
HUM 6815  3  Research Seminar

Concentration Requirements
Students select from the following concentrations:

Africana Studies Concentration - 30 hours
Offered through the School of Interdisciplinary Global Studies (SIGS)

Concentration Courses - 12 hours
AFA 6120  3  Social Theory and Social Thought
AFA 6207  3  African American Historiography
AFA 6355  3  African American Community Research
AFA 6805  3  African Historiography
*Students must earn a “B” or higher (3.00) in all core courses or they will be required to retake the course.

Electives - 15 hours
Students must complete 15 additional hours in approved graduate electives. These may include additional courses within Africana Studies or outside the department. Students may also choose to complete a graduate certificate as the basis of their elective work.

Approved Electives*
AFA 6108 – Social Construction of Race and Racism
AFA 6387 – Seminar on Genocide and Human Rights
AFA 6905 – Independent Study
AFA 6910 – Directed Research
AFA 6932 – Special Topics

*A additional external electives may be chosen in consultation with the Graduate Director

Thesis or Internship - 3 hours
AFA 6971  3  Thesis OR
AFA 6945  3  Internship
Students must complete a thesis or internship as part of their graduate major. Students will make this choice at the end of their first year of study. Thesis students must register for no less than three thesis hours (AFA 6971). Internship students must register for no less than three hours of internship (AFA 6945).

Comprehensive Exam
Internship students must successfully pass a comprehensive exam. The successful oral defense of the thesis equates to the comprehensive exam for thesis students. *Any student who initially chooses the thesis, but later changes to an Internship (which will only be approved with extenuating circumstances) must complete comprehensive exams.
American Studies Concentration - 30 hours

Concentration Courses - 12 hours
- HUM 6814 3 Introduction to Graduate Study
- AMS 6156 3 Theories and Methods of Cultural Studies
- AMS 6254 3 Cultural Era
- AMS 6805 3 Enduring Questions in American Culture

Electives - 12 hours
- AMS 6002 3 American Lives
- AMS 6901 1-3 Directed Readings in American Studies
- AMS 6915 1-12 Directed Research
- AMS 6934 1-3 Selected Topics
- AMS 6940 1-3 Internship in American Studies

Comprehensive Exam
The submission and oral defense of the thesis proposal equates to the comprehensive exam.

Thesis - 6 hours
- AMS 6971 - 6 Thesis

Upon nearing the completion of coursework, each student will select a thesis topic, constitute a thesis committee, and write and orally defend a thesis proposal. The student will then write and orally defend a 40 to 80-page thesis. During the proposal and thesis writing stage, students are required to enroll for at least 6 hours of Thesis credit.

Film Studies Concentration - 30 hours

Concentration Courses - 12 hours
- HUM 6814 3 Introduction to Graduate Study
- HUM 6583 3 Global Cinema and New Media to 1960
- HUM 6584 3 Global Cinema and New Media since 1960
- HUM 6586 3 Film Theory

Electives - 12
Additional coursework selected in consultation with the Graduate Director.

Comprehensive Exam
The submission and oral defense of the thesis proposal equates to the comprehensive exam.

Thesis - 6 hours
- HUM 6971 - 6 Thesis

After the completion of coursework, each student will select a thesis topic; constitute a thesis committee; and write and orally defend a thesis proposal. Each student will then write and orally defend a 40-80 page thesis. During the proposal and thesis writing stage, students are required to enroll for 6 thesis hours.
Humanities Concentration - 30 hours
Concentration Courses - 24 hours
- HUM 6814 3 Introduction to Graduate Study
- HUM 6801 3 Theories and Methods of Cultural Studies
- 9 Additional HUM courses selected in consultation with the Graduate Director
- 9 HUM or Outside electives selected in consultation with the Graduate Director

Comprehensive Exam
The submission and oral defense of the thesis proposal equates to the comprehensive exam.

Thesis
- HUM 6971 6 Thesis
After the completion of coursework, each student will select a thesis topic; constitute a thesis committee; and write and orally defend a thesis proposal. Each student will then write and orally defend a 40 to 80 page thesis. During the proposal and thesis writing stage, students are required to enroll for 6 thesis credits.

Social and Political Thought Concentration - 30 hours
Concentration Courses - 24 hours
Courses approved by a committee selected by the student from the department faculty.

Comprehensive Exam
The oral defense of the thesis equates to the comprehensive exam

Thesis - 6 hours
After the completion of coursework, each student will select a thesis topic; constitute a thesis committee; and write and orally defend a thesis proposal. Each student will then write and orally defend a 40 to 80-page thesis. During the proposal and thesis writing stage, students are required to enroll for 6 thesis hours.

Accelerated Major
BA in Humanities and Cultural Studies: Film and Media Studies Concentration / MA in Liberal Arts: Film Studies Concentration

This program intends for students to complete a Bachelor of Arts in Humanities and Cultural Studies with a concentration in Film and New Media Studies and an M.A. Liberal Arts in Film Studies over the span of five years. Completion of this program allows students to complete 12 graduate credits toward the M.A. in during the junior or senior year of their B.A. degree.

Target students and expected outcomes
The accelerated program is an attractive and viable path for students seeking to expedite their entry to the workforce or to Ph.D. studies. Students who complete this program will maximize department resources and opportunities for research.

Description and Requirements
For consideration of admission to the major a student must:
1. Have completed 15 credit hours in the B.A. Humanities and Cultural Studies major, Film and New Media Studies concentration upon applying;
2. Have a minimum 3.33 GPA overall;
3. Have a minimum undergraduate 3.5 GPA in the major;
4. Have completed FIL 1002 with a B or higher; and
5. Have met with the Graduate Director and/or Graduate Advisor to discuss a plan of study
Undergraduate Degree Requirements for the B. A. in Humanities and Cultural Studies with a Film and New Media Studies Concentration

All Humanities and Cultural Studies major (Film and New Media Studies concentration) students will complete graduation requirements listed in the undergraduate catalog.

University and College Requirements:
- 120 hours
- 36 hours of general education coursework
- 6 hours upper-level core curriculum (Writing Intensive Capstone and Capstone Experience)
- 48 hour upper-level rule
- USF Residency - Students must complete 30 hours of the last 60 hours in USF coursework.
- FLEX (Foreign Language Exit Requirement)
- Gordon Rule Communication and Computation

Humanities and Cultural Studies Major, Film and New Media Studies Concentration Requirements (36 total credit hours):

Major Core (9 credit hours)
Students must complete the following required courses for the major (9 credit hours):
- HUM 3804 Introduction to Cultural Studies
- HUM 4331 Humanities Pro-Seminar
- HUM 4931 Seminar in Humanities

Students take 27 credit-hours for the concentration in Film and New Media Studies.

Film & New Media Studies Concentration (27 credit hours)
The Film & New Media Studies concentration is designed to teach students how to think actively, critically, and creatively, about the art of the moving image. To this end, it surveys significant examples of moving-image culture, including films from Hollywood and other global industries; experiments in documentary, avant-garde, and art cinema; and works from television, digital video, and the Internet.

Concentration Core (15 credit hours)
Required courses for the concentration:
- FIL 1002 Introduction to Film Studies
- FIL 3052 Foundations of Film & New Media
- FIL 3077 Contemporary Film & New Media
- HUM 4581 Film and Media Theory

Students select one course from the following list:
- AMS 2270 Twentieth-Century American Culture
- HUM 2250 Studies in Culture: The Twentieth Century

Concentration Electives (12 credit hours)
Students take an additional 12 credit hours of upper-level coursework from Humanities and Cultural Studies courses.

Course Grade Requirement
Students must pass HUM 3804 with a B- in order to enroll in HUM 4331. Students must pass HUM 4331 with at least a C- to register for HUM 4931. Students must have completed FIL 1002 with a B or higher to be considered for the accelerated program.

Research Opportunities
The Humanities major offers six credit hours of undergraduate research through the senior-year sequence (HUM 4331 and HUM 4931).
Shared Courses

Both Thesis and Exam Paths:
Students in the accelerated program, may have twelve credit hours of graduate courses count toward both degrees as follows:

<table>
<thead>
<tr>
<th>Undergrad course</th>
<th>satisfied by</th>
<th>Graduate course</th>
</tr>
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<tbody>
<tr>
<td>FIL 3052</td>
<td>HUM 6583</td>
<td></td>
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<tr>
<td>FIL 3077</td>
<td>HUM 6584</td>
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<tr>
<td>HUM 4581</td>
<td>HUM 6586</td>
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</tr>
</tbody>
</table>

An additional three (3) graduate credit hours may be earned by taking any course offered by HCS that is at the 6000 level.

Graduate Degree Requirements

MA Liberal Arts: Film Studies Concentration (33 hours)

Core Requirement
HUM 6815 Research Seminar

Concentration Courses (24 hours)
- HUM 6814 Introduction to Graduate Study
- HUM 6583 Global Cinema and New Media to 1960
- HUM 6584 Global Cinema and New Media since 1960
- HUM 6586 Film Theory
- 12 credit hours of additional coursework selected in consultation with the graduate director

Thesis (6 hours)- HUM 6971 Thesis

After the completion of coursework, each student will select a thesis topic; constitute a thesis committee; and write and orally defend a thesis proposal. Each student will then write and orally defend a 40-80 page thesis. During the proposal and thesis writing stage, students are required to enroll for 6 thesis hours.

Comprehensive Exam
The submission and oral defense of the thesis proposal equates to the comprehensive exam.

Students pursuing the MA in Liberal Arts with a Film Studies concentration through the Accelerated BA/MA program, may choose either a thesis or an exam, with the approval of the Graduate Advisor. Required coursework for the accelerated major is tailored to the choice of the thesis or exam path as noted below.

Thesis Path
In addition to the above, students pursuing the thesis option must take:
- HUM 6814 Introduction to Graduate Study
- HUM 6815 Research Seminar
- HUM 6971 Thesis
- Three electives (nine credit hours), chosen in consultation with the Graduate Advisor

Exam Path (Non-thesis)
In addition to the above requirements for both thesis and exam paths, students pursuing the exam option, must take:
- HUM 6814 Introduction to Graduate Study
- Five electives (15 credit hours), chosen in consultation with the Graduate Advisor
- Three credit hours of Directed Reading in preparation for the MA exam

An exam, administered and graded by a committee, comprising the student’s major professor and two other members of the graduate faculty. If a student fails the exam, she/he may retake it once, not later than one month after the graded exam is returned to the student.

COURSES
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
LIBRARY AND INFORMATION SCIENCE

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: June 1
Spring: October 15
Summer: February 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 39
Level: Masters
CIP Code: 25.0101
Dept. Code: LIS
Major/College Codes: LIS AS
Approved: 1988

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Information
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The mission of the School of Information 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:
For students interested in School Library Media as a profession, completion of the USF/SLIS program results in (1) a Master of Arts degree accredited by the American Library Association, which will allow the recipient to work in all types of libraries, (2) appropriate coursework for passing the state examination for certification as an Educational Media Specialist for Grades K-12 in the state of Florida. For more information, http://si.usf.edu/ma/library-program/

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

GRE is required with preferred minimum scores of 71st percentile (550V), 10th percentile (450) Q.
However, the LIS program will waive the GRE requirement if the student meets one of the following criteria:

- A 3.50 or higher GPA in a completed master’s degree program from a regionally accredited institution
- A 3.25 or higher GPA in upper division undergraduate work from a regionally accredited institution.
- Doctoral degree (including professional degrees such as the JD and MD) from a regionally accredited institution.

All students not meeting one of the above criteria will be considered for conditional admission based on all of the following criteria:

- A preferred minimum score of 550 on the Verbal section and 450 on the Quantitative section of the General GRE test.
- An academic writing sample
- Three written letters of recommendation
Conditional admission status will be converted to regular status upon completion of the first three LIS courses with a GPA of 3.50 or above. LIS 5020 must be included as one of these courses.

1. A satisfactory score on the TOEFL (79 on the internet-based test and 550 on the paper-based test) may be required for natives of non-English-speaking countries.

2. All students are required to write a statement describing their purpose and goals in the LIS program

CURRICULUM REQUIREMENTS

Total Minimum Hours - 39 credit hours minimum

Core courses – 18 credit hours
Technology Elective – 3 credit hours
Electives – 18 credit hours
Comp Exam/Portfolio

Students must maintain a 3.00 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 Core Courses – 18 credit hours
The student must complete the following 39-hours, including six core courses:

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<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Title</th>
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<tbody>
<tr>
<td>LIS 5020</td>
<td>3</td>
<td>Foundations of Library and Information Science OR</td>
</tr>
<tr>
<td>LIS 6260</td>
<td>3</td>
<td>Information Science in Librarianship</td>
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<tr>
<td>LIS 6271</td>
<td>3</td>
<td>Research Methods in Library and Information Science</td>
</tr>
<tr>
<td>LIS 6409</td>
<td>3</td>
<td>Introduction to Library Administration</td>
</tr>
<tr>
<td>LIS 6511</td>
<td>3</td>
<td>Collection Development and Maintenance</td>
</tr>
<tr>
<td>LIS 6603</td>
<td>3</td>
<td>Basic Information Sources and Services</td>
</tr>
<tr>
<td>LIS 6711</td>
<td>3</td>
<td>Organization of Knowledge I OR</td>
</tr>
<tr>
<td>LIS 6735</td>
<td>3</td>
<td>Technical Services in Libraries</td>
</tr>
</tbody>
</table>

Technology Elective - 3 credit hours
LIS 5268 3 IT Concepts for Information Professionals

For students who already have a foundational understanding of information technology, this course may be substituted by another elective. All students are expected to select courses, in coordination with their advisers, which will foster competencies and understanding of theory, application, and use of technology.

Electives - 18 credit hours
These courses must be approved by the student’s advisor. Some options include:

LIS 5268 3 Microcomputer Applications Library and Information Centers
LIS 5315 3 Instructional Graphics
LIS 5333 3 TV in Schools and Libraries
LIS 5418 3 Health Informatics for Medical Librarians
LIS 5566 3 Multicultural Literature for Children and Young Adults
LIS 5937 4 Selected Topics in Library Studies
LIS 6110 3 History of Libraries
LIS 6111 3 History of Children’s Literature
LIS 6206 3 Adult Services in Libraries
LIS 6212 3 Reading Guidance Programs in Libraries and Classrooms
LIS 6225 3 Storytelling
LIS 6303 3 Preparing Instructional Media
LIS 6316 3 Visualization of Knowledge
LIS 6402 3 Advanced Library Administration
LIS 6432 3 Seminar in Academic Libraries
LIS 6445 3 Seminar in Public Libraries
LIS 6455 3 Organization and Administration of the School Media Center
LIS 6463 3 Library Networks and Systems
LIS 6464 3 Library Systems Analysis and Planning
LIS 6472 3 Seminar in Special Libraries
LIS 6473 3 Law Librarianship
LIS 6475 3 Health Sciences Librarianship
LIS 6773 3 Digital Curation
LIS 6482 3 Web Archiving
LIS 6542 3 The Curriculum and Instructional Technology
LIS 6565 3 Books and Related Materials for Young Adults
LIS 6585 3 Materials for Children
LIS 6609 3 Online Information Sources and Services
LIS 6610 3 Information Sources and Services in the Humanities
LIS 6620 3 Information Sources and Services in the Social Sciences
LIS 6624 3 Information Sources and Services in Business and Law
LIS 6630 3 Information Sources and Services in Science and Technology
LIS 6661 3 Government Documents
LIS 6724 3 Classification and Cataloging of Non-Book Materials
LIS 6726C 3 Indexing and Abstracting
LIS 6712 3 Organization of Knowledge II
LIS 6514 3 Digital Libraries
LIS 6906 3 Independent Study
LIS 6946 3 Supervised Fieldwork
LIS 6949 2-6 Practicum in Archives and Special Collections

Courses Outside the School
Degree-seeking students are permitted to enroll in courses, usually limited to six semester hours, outside the School of Information 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.

Culminating Assessment

Comprehensive Examination

Portfolio
Assessment of Competencies for the Master’s Degree in Library and Information Science - In Lieu of a Comprehensive Examination, students admitted beginning in the Fall 2016 Catalog Year are required to submit a portfolio in accordance with program provided guidelines which exhibit competencies acquired during their master’s program based on standards of the American Library Association.

Portfolio timeline: Students will begin creating and collecting artifacts and other examples of work beginning in their first semester of study. Portfolios must be reviewed by an advisor or other major designee midway through the student’s major and then submitted prior to graduation according to the major guidelines for final approval as part of graduation requirements.
OTHER INFORMATION
ALA-USF, ASIST-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 Information 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.

COURSES
See http://www.ugs.usf.edu/course-inventory/ or http://si.usf.edu/
LINGUISTICS

Master of Arts (M.A.) Degree

DEGREE INFORMATION

- Priority Admission Application Deadlines: Closed for new admissions
- Minimum Total Hours: 33
- Level: Masters
- CIP Code: 16.0102
- Dept. Code: WLE
- Major/College Codes: LIN AS
- Approved: 1971

CONTACT INFORMATION

- College: Arts and Sciences
- Department: World Languages
- Contact Information: www.grad.usf.edu

Currently, students are not being admitted to this major.
Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. The Department of World Languages currently offers a Master of Arts in Linguistics: English as a Second Language. At USF, our Linguistics and TESL majors are among the oldest in the Sunshine State. Linguistics dates back to the early 1960s, early in USF history, and the applied linguistics major has prepared ESL/ESOL/EFL educators since the 1970s. Our students are prepared for positions teaching second languages to non-native speakers, and our alumni have taught in public and private institutes, here in the Tampa Bay area and around the world. Other graduates have continued their graduate education and earned doctoral degrees, and many of our alumni hold positions of leadership. In short, our graduates have made a name for the linguistics major at USF.

Major Research Areas:
Individual differences, Corpus linguistics, Second language phonology, Second language writing, Second Language Acquisition, Discourse analysis, and second language learning and teaching.

Admission Information

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- GRE (taken within the last five years) required with minimum scores of 149 (approximately 40th percentile) V and 4 AW (approximately 50th percentile). Five-year limit may be waived for applicants with a master’s degree who have previously taken the GRE.
- Three letters of recommendation,
- A two-page statement of purpose, written by the applicant.
- Curriculum Vitae (CV)
- 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.
CURRICULUM REQUIREMENTS

Total Minimum Hours: 36 hours

Core Requirements 24 hours
- LIN 5700 Applied Linguistics 3
- LIN 6081 Introduction to Graduate Studies in Linguistics 3
- LIN 6675 Grammatical Structure of American English 3
- LIN 6720 Second Language Acquisition 3
- TSL 5371 Methods of TESL 3
- TSL 5372 ESL Curriculum and Instruction 3
- TSL 5440 Language Testing 3
- TSL 5525 Cross-Cultural Issues in ESL 3

Electives 9 hours
Nine hours of approved electives. Students select electives in consultation with the graduate adviser.

Internship 3 hours
TSL 6945 – Internship

Non-Thesis
Applied Linguistics (TESL) is a non-thesis track.

Comprehensive Exam
In lieu of a comprehensive exam, per the norm of the field, a three-part Exit Assessment consisting of a Pedagogical Theory (PT) paper, a Classroom Practice & Reflection (CPR) paper, and portfolio of major course assignments and other relevant items is required for the program. Students are required to demonstrate proficiency in a language other than their native language by the end of the major.

COURSES
See http://www.ugs.usf.edu/course-inventory/
LINGUISTICS: ENGLISH AS A SECOND LANGUAGE AND FRENCH

Concurrent Degrees:
Master of Arts (M.A.)/Master of Arts (M.A.) Degrees

DEGREE INFORMATION

Refer to individual Majors for deadlines

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 36 (ESL), 33 (FRE)
Level: Masters
CIP Codes: 16.0102, 16.0901
Dept. Codes: WLE
Major/College Codes: ESL/AS, FRE/AS

CONTACT INFORMATION

Colleges: Arts and Sciences
Department: World Languages
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

This is a concurrent degree between the MA in Linguistics: ESL and the MA in French. Students will need to meet the admissions requirements for each individual major to qualify for the concurrent degree option. Also, students will need to complete all curriculum requirements for both majors, including both sets of comprehensive/exit exams.

Major Research Areas:
Individual differences, Corpus linguistics, Second language phonology, Second language writing, Second Language Acquisition, Discourse Analysis, and second language learning and teaching. French language, Cultural studies, Film, Literature, and Linguistics

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements specified in the Catalog list for each major.

CURRICULUM REQUIREMENTS

For specific information on the requirements for the major, please refer the Catalog listing for that major.

M.A. in Linguistics: English as a Second Language (ESL) – total minimum hours: 36
M.A. in French – total minimum hours: 33
Total hours: 69, with 9 shared. Total combined: 60 credit hours

Shared Courses: The following courses are approved to be shared with both majors:
TSL 5371  3  Methods of Teaching English as a Second Language – (required for Linguistics; elective for French)
LIN 5700  3  Applied Linguistics – (required for Linguistics; elective for French)
FRW 5829  3  An Introduction to Modern French Literary Criticism – (required for French; elective for Linguistics)

For all other curriculum requirements, including Thesis/non-Thesis, Internship, Comprehensive Examination, etc., refer to the Catalog listing for that major.
LINGUISTICS: ENGLISH AS A SECOND LANGUAGE
AND SPANISH

Concurrent Degrees:
Master of Arts (M.A.)/Master of Arts (M.A.) Degrees

DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Refer to individual Majors for deadlines</th>
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<td>International applicant deadlines:</td>
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<tr>
<td><a href="http://www.grad.usf.edu/majors">http://www.grad.usf.edu/majors</a></td>
</tr>
</tbody>
</table>

| Minimum Total Hours: | 36 (ESL), 36 (SPA) |
| Level: | Masters |
| CIP Codes: | 16.0102, 16.0905 |
| Dept. Codes: | WLE |
| Major/College Codes: | ESL/AS, SPA/AS |

CONTACT INFORMATION

| Colleges: | Arts and Sciences |
| Department: | World Languages |
| Contact Information: | www.grad.usf.edu |

MAJOR INFORMATION

This is a concurrent degree between the MA in Linguistics: ESL and the MA in Spanish. Students will need to meet the admissions requirements for each individual major to qualify for the concurrent degree option. Also, students will need to complete all curriculum requirements for both majors, including both sets of comprehensive/exit exams.

Major Research Areas:

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements specified in the Catalog list for each major.

CURRICULUM REQUIREMENTS

For specific information on the requirements for the major, please refer the Catalog listing for that major.

M.A. in Linguistics: English as a Second Language (ESL) – total minimum hours: 36
M.A. in Spanish – total minimum hours: 36
Total hours: 72, with 9 shared. Total combined: 63 credit hours

Shared Courses: The following courses are approved to be shared with both majors:

- TSL 5371 3 Methods of Teaching English as a Second Language – (required for Linguistics; elective for Spanish)
- LIN 5700 3 Applied Linguistics – (required for Linguistics; elective for Spanish)
- SPW 6806 3 Introduction to Hispanic Graduate Studies (required for Spanish; elective for Linguistics)

For all other curriculum requirements, including Thesis/non-Thesis, Internship, Comprehensive Examination, etc., refer to the Catalog listing for that major.
LINGUISTICS AND APPLIED LANGUAGE STUDIES

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 15th

Minimum Total Hours: 55 Post-Master’s
Level: Ph.D.
CIP Code: 16.0102
Dept. Code: WLE
Major/College Codes: LAL AS
Approved: Effective 2016

CONTACT INFORMATION

College: Arts and Sciences
Department: World Languages
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

This major in Linguistics and Applied Language Studies is designed to train advanced students in the field in using principled, empirical approaches to address language-related issues in the 21st century. Our faculty are equipped to meet the needs of students with diverse interests in the field. By the end of the major, our students will be able to:

• develop a strong knowledge base in the content areas of this field, including key topics, major lines of inquiry, current trends, and remaining questions;
• develop expertise in critical thinking as well as in oral and written communication for academic and non-academic audiences;
• contribute their expertise to advancing knowledge about the critical role of language(s) in a global society;
• demonstrate mastery of research methods and use these methods to design and conduct independent research on various topics in this field;
• contribute to the advancement of this field through scholarly publications and conference presentations;
• gain experience in teaching undergraduate courses;
• participate in professional activities in this field at national, regional, and local levels.

Major Research Areas:

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

• MA in Applied Linguistics, Linguistics, TESOL, Second Language Studies, Foreign Languages, or a related field
• Experience with an additional language(s)
• GRE scores (taken within the last five years): Verbal reasoning: 153 (500, approximately 60% percentile); Quantitative reasoning: 144 (500, approximately 20% percentile); Analytical writing: 4.0.
• TOEFL scores (for international applicants): 100 ibt (or 7.5 on IELTS – note that IELTS scores cannot be used for the TA language requirement, so TOEFL scores are strongly preferred)
• GPA of 3.5 or higher in the MA degree
• Statement of research interest
• Current curriculum vitae
• A writing sample that shows evidence of research skill. This can be published or unpublished, such as an article, an MA thesis, or an MA course paper.
• 3 academic references
• Interview with program faculty
• Official transcripts (must provide an official translation if transcripts are not available in English from the degree-granting university)

CURRICULUM REQUIREMENTS

Total Minimum Hours: 55 hours Post-Masters

Core courses: all courses in this category must be taken (22 hours minimum).

LIN 6720 3  Second Language Acquisition – 3 credits
LIN 7630 3  Seminar on Research and Writing in Applied Linguistics
LIN 7631 3  Advanced Seminar in Applied Linguistics (LIN 6720 prerequisite)
LIN 6675 3  The Grammatical Structure of American English, OR a course focusing on the morphology and syntax of another language in WLE department.
LIN 7635 3  Professional Development
LIN 7638 3  Qualitative Methods in Applied Linguistics
LIN 7639 3  Quantitative Methods in Applied Linguistics
LIN 7910 1-3  Directed research in Applied Linguistics: to be taken the semester of writing the qualifying exam paper

Foundation Course Electives (6 credits required).
Based on student’s prior educational background, recommendations will be made by the admissions committee and implemented by the academic advisor/pedagogical coordinator. Each student is required to take a minimum of two of the following courses:

LIN 5700 3  Applied Linguistics
LIN 6081 3  Introduction to Graduate Studies
LIN 6675 3  Grammatical Structure of American English (can’t count as a foundation credit if used to satisfy the structure of a language credit)
TSL 5371 3  Methods of TESL
TSL 5372 3  ESL Curriculum & Instruction
TSL 5440 3  Language Testing
TSL 5525 3  Cross-Cultural Issues in ESL

General Electives (9 credits required).
Each student is required to take a minimum of three general electives. These can be from established course numbers or via the LIN 6932 special topics number and include the following:

LIN 6601 3  Sociolinguistics
LIN 6722 3  Writing process in SLA
LIN 6726 3  Individual Differences in SLA
LIN 6748 3  Contrastive Analysis

Sample Topics for LIN 6932:
• Discourse Analysis
• English for Academic Purposes/English for Specific Purposes
• Task-Based Language Teaching
• Sound System of English
• Pragmatics for Language Teachers
• Bilingualism/Multilingualism
• Corpus Linguistics
• Language and Technology

Note: In special circumstances, additional courses from the “foundation course electives” group may be taken as electives.

Qualifying Examination
Students will complete a qualifying examination.

Dissertation hours – 18 credits minimum
LIN 7980 Dissertation

Students will complete 18 hours of dissertation research. The student will submit a proposal to the committee members and, once approved, will participate in an oral defense of that proposal. Finally, the student will submit a completed dissertation draft to the committee members and once approved will participate in an oral defense of the dissertation.

COURSES
See http://www.ugs.usf.edu/course-inventory/
MASS COMMUNICATIONS
Master of Arts (M.A) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 39
Level: Masters
CIP Code: 9.0102
Dept. Code: MCM
Major/College Codes: COM AS
Approved: 1978

Concentrations:
Media Studies (MCM)
Strategic Communication Management (PRS)
Multimedia Journalism (MMJ) inactive

CONTACT INFORMATION

College: Arts and Sciences
Department: Zimmerman School of Advertising and Mass Communications

Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The M.A. 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 Strategic Communication Management Concentration emphasizes public relations management and social science research. The Multimedia Journalism Studies Concentration focuses on storytelling through the integration of different delivery platforms, and on management issues in converged newsrooms.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- a 3.0 upper division GPA
- 153V, 144Q preferred on the GRE
- a resume
- three letters of recommendation (academic recommendations preferred)
- a strong letter of intent
- an appropriate bachelor’s degree from an accredited institution
- Students who lack an appropriate background in the selected concentration may be required to take additional courses to meet concentration minimums.
CURRICULUM REQUIREMENTS

Total Minimum Hours: 39

Core Requirements 12 hours
- MMC 6920 Introduction to Mass Communication Research 3
- MMC 6401 Mass Communication Theory 3
- MMC 6447 Quantitative Research Methods in Mass Communications 3
- MMC 6448 Qualitative Research Methods in Mass Communications 3

Concentration Requirements 12 hours
Students select from the following concentration options:

Concentration in Media Studies
This option requires 39 hours of course work, including 6 hours of thesis. At least twenty-four hours are taken in the Zimmerman School of Advertising and 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 - INACTIVE
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. This option requires a total of 39 hours of which 12 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.

Requirements 12 hours
- JOU 6501 Media Management 3
- JOU 5344 Multimedia Journalism 3
- JOU 6349 Advanced Multimedia Journalism 3
- MMC 6612 Law and Mass Media 3
- Thesis OR MMC 6950 Applied Research Project 6
- Electives 6
- 1 Outside Requirement: EME 6936 Web Design and Multimedia 3

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 option 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.

Core Requirements 15 hours
- PUR 6603 Strategic Communication Campaigns 3
- PUR 6607 Strategic Communication Management 3
- PUR 5505 Introduction to Strategic Communication Theory and Research 3
- MMC 6415 Strategic Communication Media 3
- MMC 6418 Strategic Message Design 3

Outside requirement (3 hours): A course in organizational communication, management or leadership.
Thesis OR Applied research project (6) hours arranged with project committee chair.
Mass Communications or other electives (3 hours).

Comprehensive Exam
Students in these 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.
Accelerated Major
BS in Advertising / MA in Mass Communications with a Concentration in Strategic Communication Management

This program allows B.S. majors in Advertising (College of Business) to take graduate courses in the MA in Mass Communication with a concentration in Strategic Communication Management (College of Arts and Sciences), during their senior year. These shared credits will be applicable to the MA degree, thus accelerating the time to completion, with successful students able to earn the MA degree in two additional semesters beyond the completion of the BS degree.

This accelerated program shares 12 credits between already existing degrees/concentrations:

BS in Advertising
MA in Mass Communications with a Concentration in Strategic Communication Management

This highly competitive program, which will admit fewer than 40 students each year, is the result of collaboration between the Department of Marketing in the College of Business and the Zimmerman School of Advertising and Mass Communications in the College of Arts and Sciences. The integrated 4-plus-1 B.S./M.A. curriculum is designed to provide eligible students the undergraduate coursework necessary to complete a specialized program of study in strategic communication management at the graduate level. Graduates of this distinctive program will be prepared to take on leading communication management positions in an evolving business and media environment.

Admission Requirements
For admission to the program, a student must:

- Have completed at least 15 hours in the Advertising undergraduate major
- Have a minimum undergraduate 3.33 GPA overall; and
- Have a minimum undergraduate 3.5 GPA in the major.
- To apply for admission, send a letter to the Director of the Zimmerman Advertising Program stating your qualifications and desire to enter the program. Students may also be nominated by faculty in the Department of Marketing or Zimmerman School of Advertising and Mass Communications.

Policy for where a student earns less than a “B” in a graduate Course:
Students must earn a minimum of a “B” (3.00) in all graduate courses. Failure to earn at least a “B” in a graduate course will result in academic review by the graduate program. Failure to maintain a minimum 3.0 GPA will result in academic probation, according to the procedures of the USF Office of Graduate Studies.

Degree Requirements
BA in Advertising – refer to listing in Undergraduate Catalog
MA in Mass Communications – see requirements listed above

Shared Requirements
Twelve (12) hours of graduate credit can be taken in place of 6 hours of undergraduate credit required for the Advertising Major and 6 hours of Required Business electives as follows:

ADV 4600 (Advertising Management), satisfied by PUR 6607 (Strategic Communication Management)
ADV 4800 (Advertising Campaigns), satisfied by PUR 6603 (Strategic Communication Campaigns)
MAR XXXX (Upper-level marketing elective), satisfied by MAR 6936 (Selected Topics in Marketing: return on Marketing Investment)
MAR 4933 (Selected Topics in Marketing: Social Media Applications), satisfied by Mar 6936 (Selected Topics in Marketing: Social Media Applications)

Other Information:
- Academic advising: Students in the Accelerated B.S./M.A. program work closely with a designated advisor to ensure timely completion of academic requirements. Students who have reached graduate status meet with the Zimmerman School of Advertising and Mass Communications Director of Graduate Studies for advising.
- Tracking of students: A designated advisor will track student progress toward degree completion.
- Students will meet regularly with the advisor to ensure student success and timely awarding of degrees.
• Financial aid impact: Students should review their financial aid prior to applying to an accelerated program to determine any additional financial burden they may incur. Students must pay higher tuition rates for graduate courses. In addition, scholarships such as Bright Futures only reward a specific amount per credit hour.

• Degree conferral: The B.S. and M.A. degrees are conferred sequentially. The B.S. in Advertising is conferred upon completion of the designated 120 hours of undergraduate coursework, following the fourth year of study. The M.A. in Mass Communication with a concentration in Strategic Communication Management is conferred upon completion of the remaining 27 hours of graduate coursework during the fourth year summer and fifth year of study. The program will notify the Office of Graduate Studies to officially convert the student to graduate standing after certification of the undergraduate degree.

• Program of study: Undergraduate degree requirements are fulfilled in years 1 through 4. Graduate degree requirements are completed in years 4 and 5.

COURSES
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
MATHEMATICS

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 1
Spring: August 1

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 27.0101
Dept. Code: MTH
Major/College Codes: MTH AS
Approved: 1965

Concentration:
Pure and Applied (PAA)

CONTACT INFORMATION

College: Arts and Sciences
Department: Mathematics and Statistics
Contact Information: www.grad.usf.edu

MAJOR 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.

Major Research Areas:

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- A Bachelor’s degree or equivalent in mathematical sciences or related area
- At least a 650 quantitative preferred score on the GRE
- At least a 3.0 GPA in undergraduate math courses
- A completed math department application form
- A 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.
## CURRICULUM REQUIREMENTS

**Total Minimum Hours:** 30 hours

*Credit Hours:* A candidate must complete at least 30 credit hours in Mathematics. Some graduate courses are organized into Core and Elective Sequences as follows:

### Core Requirements

**Sequences:**

- **Algebra:**
  - MAS 5107 Advanced Linear Algebra 3
  - MAS 5311 Algebra I 3
  - MAS 5312 Algebra II 3

- **Analysis:**
  - MAA 5306 Real Analysis I 3
  - MAA 5307 Real Analysis II 3
  - MAA 6616 Abstract Integration 3

- **Topology:**
  - MTG 5316 Topology I 3
  - MTG 5317 Topology II 3

### Electives

**Applied Mathematics:** three courses, one from each group listed below.

- **(Group A)**
  - MAP 5407 Methods of Applied Mathematics 3
  - MAP 5345 Applied Partial Differential Equations 3

- **(Group B)**
  - MAA 5405 Applied Complex Analysis 3
  - MAT 5932 (MAD 4401) Selected Topics 1-4

- **(Group C)**
  - MAP 6205 Control Theory and Optimization 3
  - MAT 6932 Selected Topics 1-4

**Combinatorics:**

- MAD 6206 Combinatorics I 3
- MAD 6207 Combinatorics II 3

**Complex Analysis:**

- MAA 6406 Complex Analysis I 3
- MAA 6407 Complex Analysis II 3

**Statistical Methods:**

- STA 5166 Statistical Methods I 3
- STA 6167 Statistical Methods II 3

**Dynamical Systems:**

- MAT 5932 Selected Topics 1-4
- MAT 6932 Selected Topics 1-4

**Foundations:**

- MHF 5306 Mathematical Logic and Foundations I 3

http://www.cas.usf.edu/
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>MHF 6307</td>
<td>Mathematical Logic and Foundations II</td>
<td>3</td>
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<td>STA 6208</td>
<td>Linear Statistical Models</td>
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<td>STA 5326</td>
<td>Mathematical Statistics</td>
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<td>MAP 5316</td>
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<td>MAP 5317</td>
<td>Ordinary Differential Equations II</td>
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<td>MAP 6336</td>
<td>Theory Ordinary Differential Equations I</td>
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<td>MAP 5345</td>
<td>Applied Partial Differential Equations</td>
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<td>MAP 6356</td>
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<td>Probability Theory I</td>
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<td>STA 6447</td>
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<td>STA 6206</td>
<td>Stochastic Processes</td>
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<td>STA 6876</td>
<td>Time Series Analysis</td>
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<td>MHF 5306</td>
<td>Mathematical Logic and Foundations I</td>
<td>3</td>
</tr>
<tr>
<td>MAD 6616</td>
<td>Algebraic Automata Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

For degree requirements, each course from the Elective Sequence list above counts towards only one Elective Sequence.

**Qualifying Exam**
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 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.

1. 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.

   Graduate Director

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.

Comprehensive Exam
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.

Thesis
MAT 6971
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.

COURSES
See http://www.ugs.usf.edu/course-inventory/
MATHEMATICS

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Program Admission Deadlines:
Fall: February 1
Spring: August 1

Minimum Total Hours: 90
Level: Doctoral
CIP Code: 27.0101
Dept. Code: MTH
(Major/College Codes: MTH AS
Approved: 1971

Concentrations:
Pure and Applied (PAA)
Statistics (STT)

CONTACT INFORMATION

College: Arts and Sciences
Department: Mathematics and Statistics
Contact Information: www.grad.usf.edu

MAJOR 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.

Major Research Areas:

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- a Bachelor’s degree or equivalent in mathematical sciences or related area
- at least a 650 quantitative preferred score on the GRE
- at least a 3.5 GPA in graduate and/or upper undergraduate math courses
- three letters of recommendation (two of which should be from college level math professors)
- a completed math department application form
- a statement of goals
CURRICULUM REQUIREMENTS

Total Minimum Hours: 90 hours

In addition to the University and College requirements, the students must fulfill the following requirements. Some graduate courses are organized into Core and Elective Sequences as follows:

Core Sequences:
- Algebra: MAS 5107, 5311, 5312
- Analysis: MAA 5306, 5307, 6616
- 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
- Foundations: MHF 5306, 6307
- Linear Models and Multivariate Analysis: STA 6208, 6356
- Mathematical Statistics: STA 5326, 6326
- 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
- Stochastic 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.

Qualifying Exam

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 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.

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 entering the Ph.D. unless an extension is granted by the Mathematics Graduate committee. A student may repeat each examination once.

2. Elective Qualifying Examination: 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 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. 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. **Additional Course Requirement:** The student must complete at least one course from each of the following groups:

   - **Group 1 – Algebra:** MAS 5311, 5312
   - **Group 2 – Real Analysis:** MAA 5307, 6616
   - **Group 3 – Complex Analysis:** MAA 6406, 6407
   - **Group 4 – Topology:** MTG 5316, 5317

5. **Progress Evaluation:** Each Spring semester after admission to doctoral 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.

6. **Dissertation:** Students admitted to doctoral candidacy are required to take at least 16 hours in MAT 7980 Doctoral Dissertation, with a minimum 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.

7. **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/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
MICROBIOLOGY

Master of Science (M.S.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 1
Spring: August 1

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 26.0503
Dept. Code: BIO
Major/College Codes: MIC AS
Approved: 1973

Also offered as an Accelerated Program (BS/MS) in Microbiology

CONTACT INFORMATION

College: Arts and Sciences
Department: Cell Biology, Microbiology and Molecular Biology (CMMB)

Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The M.S. in Microbiology is administered by the Department of Cell Biology, Molecular Biology and Microbiology (CMMB). Most research in the CMMB Department is done by faculty housed in the Bio-Science Facility building (BSF). Due to the interdisciplinary aspect of most Research projects, 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 faculty within CMMB are involved in cooperative research with their colleagues in Chemistry, Integrative Biology, Public Health, Nursing, Medicine, Geology, Psychology, Geography, Marine Science, and Environmental Science. Often CMMB 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, CMMB support many graduate students as Teaching Assistants. CMMB values high quality teaching at all levels of support. Research Assistant positions may also be available to support research with specific faculty members depending on an individual faculty members funding. Numerous scholarship opportunities are also offered on a competitive basis through the USF Office of Graduate Studies.

Applying to the Department of Cell Biology, Microbiology and Molecular Biology

Students interested in attending graduate studies within the CMMB Department should visit the CMMB website that can be accessed from the main USF site and review the current CMMB faculty. It is recommended that potential students consider at least 2-3 CMMB faculty that they would be interested in working with and communicate this information in their letter of application. It is also recommended that potential students contact the CMMB Graduate Director as well as the individual faculty members they are interested in working with via email. Such communication will facilitate the assignment of the laboratory rotations that CMMB students will participate in during their first semester of residency and also allow the applicant to determine whether the desired faculty member has positions available in the laboratory.

All students admitted to the Masters in Microbiology must establish a supervisory committee. The supervisory committee shall constitute the major professor and at least two additional credentialed faculty. At least one of the committee members must be a faculty member at USF. Supervisory committee must be formed within two semesters after matriculation. The CMMB Graduate Director and CMMB Chair 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, the student shall enroll for a minimum of two (2) hours of research credit each semester (other than summer semester), until eligible to enroll in thesis credits.

**Major Research Areas:** Applied Microbiology, Pathogenic Microbiology, Cellular Microbiology, Molecular Microbiology, Ecological Microbiology

**ADMISSION INFORMATION**

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Prospective students must apply to the Microbiology major via the online application process through the USF Office of Graduate Admissions.
- Must have 3.00 GLA last 60 hours of B.S. degree
- Preferred minimum scores of 153V (500V on the old test), and 148Q (600Q on the old test), 4.5 AW on GRE
- 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.
- It is expected that candidates for the M.S. degrees will have completed courses equivalent to those required for the B.S. in Microbiology at U.S.F.

**Materials necessary for a complete application are listed below:**

The following items should be submitted in the envelope provided to:

CMMB Graduate Office  
Attention: CMMB Graduate Director  
University of South Florida  
4202 E. Fowler Ave – ISA 2015Tampa, FL 33620-5150

1) 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. Thus, applicants only need to secure transcripts from other institutions for the application packet.

2) Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students shall complete a Student Recommendation Form that can be found on the CMMB website and submit it to the recommenders.

3) 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 CMMB faculty members. In the essay please list 2-3 CMMB faculty members that you would like to have review your file.

4) Applicants must complete the Application for Teaching Assistantship (TA) Form that can be found on the CMMB or IB website if they wish to be considered for a TA position. Applicants who do not return this form will not be considered for a teaching position. Applicants should attach a resume to the Application for Teaching Assistantship (TA) Form that highlights any previous teaching experience.

5) 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 Official GRE scores. This exam must have been taken within the last five years.
CURRICULUM REQUIREMENTS

Total Minimum Hours 30 hours

The thesis based M.S. degree requires successful completion of the following:

1. structured coursework
2. an oral qualifying exam
3. research thesis
4. comprehensive final examination

The Master’s Degree Requirements should be completed in two to three years. The CMMB Department requires that all graduate work applied toward the completion of degree requirements be completed within a five year period after matriculation. Thesis research should be publishable and students are encouraged to publish their findings. The specific requirements for the Master of Science (M.S.) in Microbiology are provided below:

1. Credit hour requirement: 30 semester hour credits beyond the Baccalaureate Degree are required. *(including: BSC6910, BSC 6971, BSC 6935 and other structured and unstructured courses approved by CMMB or IB)*

2. Students admitted to the CMMB Department must complete three laboratory rotations during their first semester of residency.

3. Successful completion of the **comprehensive qualifying 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.

4. Submission of a **thesis proposal** and approval by the major professor, graduate committee and graduate director.

5. A minimum of eight (8) thesis research credit hours (BSC 6971).

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.

**M.S. in Microbiology Course Requirements**

**Required coursework**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 6930 Lectures in Contemporary Biology</td>
<td>1</td>
</tr>
<tr>
<td>Enrollment in this course is required during each semester of residency</td>
<td></td>
</tr>
<tr>
<td>BSC 6932 Advances in Scientific Review</td>
<td>2</td>
</tr>
<tr>
<td>PCB 6956 Scientific Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>PCB 6930 Advances in Cell and Molecular Biology</td>
<td>1</td>
</tr>
</tbody>
</table>

**Microbiology Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 5206 Public Health and Pathogenic Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 5655 Applied and Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>PCB 5335 Principles of Immunology</td>
<td>3</td>
</tr>
<tr>
<td>PCB 6236 Advanced Immunology</td>
<td>4</td>
</tr>
<tr>
<td>MCB 5815 Medical Mycology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5931 Molecular Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5931 Prokaryotic Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>MCB 5410 Cellular Microbiology</td>
<td>3</td>
</tr>
</tbody>
</table>

http://www.cas.usf.edu/
Comprehensive Oral Qualifying Examination.
A final comprehensive oral 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 thesis-based Master’s Degree students must present a seminar to the Department of CMBB 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.

M.S. in Microbiology Non-Thesis Option
Non-Thesis - For students enrolled in the non-thesis option, 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 offered by CMMB. A review paper of a topic approved by the supervisory committee is required as well as successful completion of the comprehensive qualifying exam after all course work has been completed. For non-thesis master’s students, this exam will occur at the end of the program of study.

Comprehensive Exam
The comprehensive qualifying exam after all course work has been completed. For non-thesis master’s students, this exam will occur at the end of the program of study.
Accelerated non-thesis BS/MS program in Microbiology

This program allows B.S. majors in Microbiology to take graduate courses for the elective part of the Microbiology degree and apply them to a non-thesis M.S. degree in Microbiology. Successful students will be able to earn the M.S. degree in two additional semesters beyond the completion of the B.S. degree.

This accelerated program shares 12 credits between already existing degrees/concentrations:
- B.S. in Microbiology
- M.S in Microbiology (NT)

Target students and expected outcomes
This program will appeal to the more competitive Microbiology majors who would benefit professionally from having the M.S. when they enter the job market but do not want to commit to the longer time a thesis M.S. or a Ph.D. program takes to complete. Professions that do not require bench laboratory experience but desire the broadened knowledge base are targeted. Graduates from this program would be ideally suited for health professions, technology based industry, education and government. We also expect that some students will be interested in doctoral education in the biological or biomedical areas.

Description and Requirements
Microbiology majors who have completed the following courses may apply to this program:
- PCB 3023 Cell Biology
- PCB 3063 Genetics
- MCB 3410 Cell Metabolism
- MCB 3032 Microbiology
- MCB 4115C Determinative Bacteriology

Graduate Degree Requirements
Students admitted into the M.S. portion of the program must complete all the requirements for the M.S. degree (non-thesis) within three semesters of admission. The requirement is 30 hours of graduate work with at least 16 of these hours completed at the 6000 level; 26 hours must be formally structured courses; and at least 15 hours must be in CMMB courses. Students will be required to take 3 core courses from the list below as part of these 26 hours. Of the required 26 hours, 9 hours will be derived from the core-CMMB graduate courses listed below (see associated curriculum). These requirements can be partially met by up to 12 hours of graduate courses taken as undergraduates. Any graduate class taken outside of CMMB must be approved by the CMMB Graduate Director. Students should be aware that a B grade or better is required for every graduate class applied to the MS portion of their degree. In addition, students will be required to pass an oral qualifying exam based on a review paper submitted in their final semester. Students must form a committee as part of their action plan to complete their graduate work. This committee will be comprised of at least 3 CMMB faculty, and will serve as the examination committee for the review paper required as part of the MS portion of their degree. Upon approval of that paper, students must successfully complete a comprehensive oral exam by their committee.

Timeline and benchmarks:
1. Completion of prerequisite upper division courses and application to the accelerated program. Typically, students will be in their junior year.
2. Acceptance into the program and an action plan within a semester of application.
3. Students will take up to 12 credits of graduate credit in CMMB courses following acceptance into the program. Typically, these courses will be taken in the latter half of the junior year and in the senior year. BioAdvise will monitor the progress of the students and ensure they follow their action plan. Students who do not complete at least 9 hours of graduate work by graduation will be dropped from the accelerated M.S. program.
4. GRE exams will be taken in a timely manner so scores will be available for admission to the M.S. portion of the program. Students who do not complete the GRE in time will not be admitted to the accelerated M.S. major.
5. Students must apply for admission to the M.S. portion of the program in a timely manner (Fall admission deadline is February 15, Spring deadline is August 1).
6. Students admitted to the accelerated program must form a committee prior to the beginning of their first semester in the M.S. portion of the program and must continue to follow the action plan which will be monitored by BioAdvise.
7. Students admitted to the accelerated M.S. program must complete the requirements within three semesters or will be dismissed from the program.
### Model Curriculum for Accelerated Non-thesis MS/BS

#### Year 1
BSC 2010, BSC 2011 with labs 8

#### Year 2
- MCB 3410-Cell Metabolism 3
- PCB 3063-Genetics and lab 4
- PCB 3023-Cell Biology and lab 4
- MCB 3032-General Microbiology 4

#### Year 3
- MCB 4115 Determinative Bacteriology 5
- 3 hour graduate elective structured course (5000) 3

#### Year 4
- MCB 4320 Molecular Microbiology 3
- 9 hours of graduate elective courses (5000 or 6000) 9

#### Year 5
- 18 hours of graduate courses
- 9 hours of which must be derived from the list below
- BSC 6932 Virology
- PCB 5525 Molecular Genetics
- BSC 5420 Genetic Engineering
- PCB 6236 Advanced Immunology 4
- BSC 6932 Prokaryotic Molecular Genetics
- MCB 5206 Public Health &Pathogenic Microbiology
- MCB 5655 Applied &Environmental Microbiology
- MCB 5818 Medical Mycology
- BSC 6932 Immunology
- 4 hour non-structured (seminar, independent study, laboratory research)
- Oral exam and review paper done at the end of year 5

### COURSES
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
PHILOSOPHY

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 2
Spring: October 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 38.0101
Dept. Code: PHI
Major/College Codes: PHI AS
Approved: 1971

CONTACT INFORMATION

College: Arts and Sciences
Department: Philosophy
Contact Information: www.grad.usf.edu
http://philosophy.usf.edu/

MAJOR INFORMATION

Contact department for information or visit http://philosophy.usf.edu/

Major Research Areas:
Aesthetics
Analytic Philosophy
Ancient Greek Philosophy
Continental Philosophy
Epistemology
Ethics & Contemporary Moral Philosophy
Feminist Philosophy
Medieval Philosophy
Modern Philosophy
Philosophy of Mind
Philosophy and Religion
Philosophy of Science
Social & Political Philosophy
19th and 20th Century Philosophy
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- three (3) letters of recommendation
- A ten (10) page philosophy writing sample
- Brief statement of the Applicant’s Philosophical Interests
- GRE scores

CURRICULUM REQUIREMENTS

Total Minimum hours: 30 hours

Core requirements 6 hours
  Proseminar I
  Proseminar II

Students complete the remaining coursework either or through general course requirements by completing the Concentration:

Course Requirements 24 hours
Students should take PHI 5135 Symbolic Logic or an approved substitute, OR pass an examination administered by the Department of Philosophy

Students must complete at least 24 hours of regularly scheduled coursework, with at least one course or graduate seminar in each of the following areas:

- Ancient and Medieval Philosophy
- Modern Philosophy
- 19th and 20th Century Philosophy
- Problems of Knowledge
- Problems of Value Theory
- Problems of Metaphysics

Courses are selected from the following list, or other course as approved by the Graduate Director:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHH 6105</td>
<td>Seminar in Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6265</td>
<td>Continental Philosophy I: Phenomenology to Hermeneutics</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6266</td>
<td>Continental Philosophy II: Political Theory and Continental Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6267</td>
<td>Continental Philosophy III: From Structuralism to Deconstructionism</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6420</td>
<td>18th Century Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHH 6435</td>
<td>17th Century Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHH 6640</td>
<td>Contemporary Continental Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHH 6938</td>
<td>Seminar in the History of Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHI 5135</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHI 5225</td>
<td>Philosophy of Language</td>
<td>3</td>
</tr>
<tr>
<td>PHI 5934</td>
<td>Selected Topics</td>
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<tr>
<td>PHI 6305</td>
<td>Seminar in Epistemology</td>
<td>3</td>
</tr>
<tr>
<td>PHI 6405</td>
<td>Seminar in the Philosophy of Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>PHI 6425</td>
<td>Seminar in the Philosophy of Social Science</td>
<td>3</td>
</tr>
<tr>
<td>PHI 6506</td>
<td>Seminar in Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHI 6605</td>
<td>Seminar in Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHI 6634</td>
<td>Seminar in Biomedical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHI 6665</td>
<td>Metaethics</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>-------------</td>
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<tr>
<td>PHI 6706</td>
<td>Seminar in the Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHI 6808</td>
<td>Seminar in Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>PHM 5125</td>
<td>Topics in Feminist Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHM 5126</td>
<td>Social Issues in Biomedical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHM 6105</td>
<td>Seminar in Social Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHM 6305</td>
<td>Seminar in Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHM 6406</td>
<td>Seminar in the Philosophy of Law</td>
<td>3</td>
</tr>
<tr>
<td>PHM 6506</td>
<td>Seminar in the Philosophy of History</td>
<td>3</td>
</tr>
<tr>
<td>PHM 6646</td>
<td>Seminar in Development Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHP 6005</td>
<td>Plato</td>
<td>3</td>
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<tr>
<td>PHP 6015</td>
<td>Aristotle</td>
<td>3</td>
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<tr>
<td>PHP 6400</td>
<td>Seminar on Descartes’ Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6415</td>
<td>Kant</td>
<td>3</td>
</tr>
<tr>
<td>PHP 6420</td>
<td>Seminar on Leibniz’s Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6500</td>
<td>Seminar on Hegals’ Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6520</td>
<td>Nietzsche and the Nietzscheans</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6530</td>
<td>Seminar in German Idealism</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6624</td>
<td>Adorno</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6640</td>
<td>Foucault</td>
<td>4</td>
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</tbody>
</table>

**Concentration in Philosophy and Religion**

Three core courses as follows:

- Pro-Seminar I and Pro-Seminar II
- PHI 6706 Seminar in the Philosophy of Religion 3
- RLG 6035 Theory and Methods in Religious Studies 4

**Course requirements**

One (1) course from each of the following three areas:

**Philosophy and Religion in Antiquity**

- PHH 6105 Seminar in Ancient Philosophy
- PHP 6005 Plato
- PHP 6015 Aristotle
- RLG 6327 Seminar: Ancient Religions and Literature 3
- RLG 6938 Formative Christianity
- RLG 6938 Early Jewish Literature
- RLG 6285 Studies in Biblical Archaeology 3

**Philosophy and Religion in the Medieval and Modern Periods**

- RLG 6938 Augustine’s Confessions
- RLG 6938 Medieval Christian Natural Theology
- PHH 6938 Seminar in History of Philosophy 3
- PHH 6205 Seminar in Medieval Philosophy 4
- PHP 6500 Seminar on Descartes’ Philosophy 4
- PHH 6435 17th Century Philosophy 4
- PHH 6420 18th Century Philosophy 4
- PHP 6415 Seminar on Kant 3
- RLG 6938 Modern Jewish Thought
- RLG 6938 Hermeneutics and Epistemology in Modern Religious Thought

**Philosophy, and Religion: Ethics, Politics, and Culture**

- PHI 6605 Seminar in Ethics 3
- PHI 6634 Seminar in Biomedical Ethics 3
- PHI 6665 Seminar in Metaethics 3
- PHI 6605 Seminar in Ethics: Environmental Ethics 3
- RLG 6189 Comparative Religious Ethics 3
COURSES
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
PHILOSOPHY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 2
Spring: October 15

Minimum Total Hours: 90
Level: Doctoral
CIP Code: 38.0101
Dept. Code: PHI
Major/College Codes: PHI AS
Approved: 1990

Concentration:
Philosophy and Religion

CONTACT INFORMATION

College: Arts and Sciences
Department: Philosophy
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Contact department for information or visit http://www.cas.usf.edu/philosophy/index.html

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 and Religion
Philosophy of Science
Social & Political Philosophy
19th and 20th Century Philosophy
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- three (3) letters of recommendation
- a ten (10) page philosophy writing sample
- GRE Scores
- A brief statement of the applicant’s philosophical interests

CURRICULUM REQUIREMENTS

Total Minimum hours: 90 hours

Once admitted, students must successfully complete at least 90 credit hours in accordance with the requirements below.

Requirements
- Proseminar I and Proseminar II
Students should take PHI 5135 Symbolic Logic or an approved substitute, OR pass an examination administered by the Department of Philosophy

Coursework
- 44 hours
Students must complete at least 44 hours of regularly scheduled coursework, with at least one course or graduate seminar in each of the following areas:

- Ancient and Medieval Philosophy
- Modern Philosophy
- 19th and 20th Century Philosophy
- Problems of Knowledge
- Problems of Value Theory
- Problems of Metaphysics

Courses are selected from the following list, or other course as approved by the Graduate Director:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHH 6100</td>
<td>Seminar in Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6265</td>
<td>Continental Philosophy I: Phenomenology to Hermeneutics</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6266</td>
<td>Continental Philosophy II: Political Theory and Continental Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6267</td>
<td>Continental Philosophy III: From Structuralism to Deconstructionism</td>
<td>3</td>
</tr>
<tr>
<td>PHH 6420</td>
<td>18th Century Philosophy</td>
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<tr>
<td>PHH 6435</td>
<td>17th Century Philosophy</td>
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<tr>
<td>PHH 6640</td>
<td>Contemporary Continental Philosophy</td>
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<tr>
<td>PHH 6938</td>
<td>Seminar in the History of Philosophy</td>
<td>3</td>
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<tr>
<td>PHI 5135</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHI 5225</td>
<td>Philosophy of Language</td>
<td>3</td>
</tr>
<tr>
<td>PHI 5934</td>
<td>Selected Topics</td>
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<tr>
<td>PHI 6305</td>
<td>Seminar in Epistemology</td>
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<tr>
<td>PHI 6405</td>
<td>Seminar in the Philosophy of Natural Science</td>
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<td>PHI 6425</td>
<td>Seminar in the Philosophy of Social Science</td>
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<tr>
<td>PHI 6506</td>
<td>Seminar in Metaphysics</td>
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<tr>
<td>PHI 6605</td>
<td>Seminar in Ethics</td>
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<td>PHI 6634</td>
<td>Seminar in Biomedical Ethics</td>
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<td>PHI 6665</td>
<td>Metaethics</td>
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<tr>
<td>PHI 6706</td>
<td>Seminar in the Philosophy of Religion</td>
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<tr>
<td>PHI 6808</td>
<td>Seminar in Aesthetics</td>
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<tr>
<td>PHM 5125</td>
<td>Topics in Feminist Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHM 5126</td>
<td>Social Issues in Biomedical Ethics</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>PHM 6105</td>
<td>Seminar in Social Philosophy</td>
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<tr>
<td>PHM 6305</td>
<td>Seminar in Political Philosophy</td>
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</tr>
<tr>
<td>PHM 6406</td>
<td>Seminar in the Philosophy of Law</td>
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</tr>
<tr>
<td>PHM 6506</td>
<td>Seminar in the Philosophy of History</td>
<td>3</td>
</tr>
<tr>
<td>PHM 6646</td>
<td>Seminar in Development Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHP 6005</td>
<td>Plato</td>
<td>3</td>
</tr>
<tr>
<td>PHP 6015</td>
<td>Aristotle</td>
<td>3</td>
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<tr>
<td>PHP 6400</td>
<td>Seminar on Descartes Philosophy</td>
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</tr>
<tr>
<td>PHP 6415</td>
<td>Kant</td>
<td>3</td>
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<tr>
<td>PHP 6420</td>
<td>Seminar on Leibniz’s Philosophy</td>
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<tr>
<td>PHP 6500</td>
<td>Seminar on Hegals’ Philosophy</td>
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<tr>
<td>PHP 6520</td>
<td>Nietzsche and the Nietzscheans</td>
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<tr>
<td>PHP 6530</td>
<td>Seminar in German Idealism</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6624</td>
<td>Adorno</td>
<td>4</td>
</tr>
<tr>
<td>PHP 6640</td>
<td>Foucault</td>
<td>4</td>
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</tbody>
</table>

**Language**

Students writing about a text or texts written in a language other than English should demonstrate a reading knowledge of that language. Students writing about a text or texts written in English should demonstrate an elementary reading knowledge of at least two other languages in which one finds research or scholarship devoted to the text(s) being studied.

**Doctoral Research**

12 credit hours in area(s) of doctoral research

**Comprehensive Exam**

A comprehensive examination on a required list of readings constructed by the candidate and a committee of examiners

**Dissertation**

PHI 7980 Dissertation

A written prospectus for the dissertation and an oral defense of this prospectus.

**Concentration in Philosophy and Religion**

Once admitted, students must successfully complete at least 90 credit hours including the following requirements:

**Three (3) Core Courses:**

- Pro-seminar I and Proseminar II
- PHI 6706  Pro-Seminar in the Philosophy of Religion
- REL 6035  Theory and Methods in Religious Studies

At least three courses from each of the following five areas:

**A. Philosophy and Religion in Antiquity**

- PHH 6100  Seminar in Ancient Philosophy
- REL 6327  Seminar in Ancient Literature
- REL xxxx  Formative Christianity
- REL xxxx  Early Jewish Literature
- REL 6285  Studies in Biblical Archaeology

**B. Philosophy and Religion in the Medieval and Modern Periods**

- REL xxxx  Augustine’s Confessions
- REL xxxx  Medieval Christian Natural Theology
- PHH 6205  Seminar in Medieval Philosophy
PHP 6400  Descartes
PHH 6435  Seminar in Seventeenth Century Philosophy
PHH 6420  Seminar in Eighteenth Century Philosophy
PHP 6005  Plato
PHP 6015  Aristotle
PHP 6415  Kant
REL xxxx  Modern Jewish Thought
REL xxxx  Hermeneutics and Epistemology in Modern Religious Thought

C.  Philosophy and Religion: Ethics, Politics, and Culture
PHI 6605  Seminar in Ethics
PHI 6634  Seminar in Biomedical Ethics
PHI 6665  Seminar in Metaethics
REL 6178  Comparative Religious Ethics
REL xxxx  Buddhist Ethics
REL xxxx  Comparative Philosophy of Religion
PHH 6265  Continental Phil I: Phenomenology to Hermeneutics
PHH 6266  Continental Phil II: Political Theory and Continental Social Theory
PHH 6267  Continental Phil III: From Structuralism to Postmodernism
PHI 6425  Seminar in the Philosophy of Social Science
PHI 6808  Seminar in Aesthetics
PHM 5125  Topics in Feminist Philosophy
PHM 6105  Seminar in Social Philosophy
PHM 6305  Seminar in Political Philosophy
REL 6126  Religion in America
REL 6143  Religion, Culture, and Society
REL 6195  Religion and Modernization
REL xxxx  Buddhism and Postmodernism
REL xxxx  Religious Issues in the Caribbean World
PHI xxxx  African Philosophy
REL xxxx  Buddhism
REL xxxx  Comparative Philosophy of Religion
REL xxxx  Buddhism and Postmodernism
REL xxxx  Seminar in Confucianism
REL xxxx  Medical Philosophy: Chinese, Greek, Indian
REL xxxx  Comparative Mysticism
PHM 5125  Topics in Feminist Philosophy
PHI 5934  Latin American Thought
REL 6178  Comparative Religious Ethics
REL xxxx  Buddhist Ethics
REL xxxx  Religious Issues in the Caribbean World

Language
Students writing about a text or texts written in a language other than English should demonstrate a reading knowledge of that language. Students writing about a text or texts written in English should demonstrate an elementary reading knowledge of at least two other languages in which one finds research or scholarship devoted to the text(s) being studied.

Doctoral Research
12 credit hours in area(s) of doctoral research.

Comprehensive Exam
A comprehensive examination on a required list of readings constructed by the candidate and a committee of examiners.
Dissertation

- A written prospectus for the dissertation and an oral defense of the prospectus.
- A written dissertation and an oral defense of this dissertation.

The dissertation committee will be composed of

a. Either a Major Professor appointed in both Philosophy and Religious Studies, or co-Major Professors, one of whom is appointed in Philosophy and the other of whom is appointed in Religious Studies; and

b. At least one other member from Philosophy and one from Religious Studies.

COURSES

See http://www.ugs.usf.edu/course-inventory/
PHYSICS

Master of Science (M.S.) Degree

DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Priority Admission Application Deadlines:</th>
<th>CONTACT INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: February 1</td>
<td>College: Arts and Sciences</td>
</tr>
<tr>
<td>Spring: September 1</td>
<td>Department: Physics</td>
</tr>
<tr>
<td>Summer: no admit</td>
<td>Contact Information: <a href="http://www.grad.usf.edu">www.grad.usf.edu</a></td>
</tr>
</tbody>
</table>

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 40.0801
Dept. Code: PHY
Major/College Codes: PHY AS
Approved: 1965

Concentrations:
Applied Physics (APM)
Atomic and Molecular Physics (AMZ)
Laser Physics (LPZ)
Materials Physics (MPZ)
Optical Physics (OPZ)
Semiconductor Physics (SCZ)
Solid State Physics (SSZ)

MAJOR INFORMATION

Contact department for information.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- three letters of recommendation
- a statement of purpose
- GRE General Test scores required, GRE Physics Subject Test scores recommended.
CURRICULUM REQUIREMENTS

Students admitted to the graduate major 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.

A minimum of 30 hours is required for the master’s degree, at least 16 hours of which must be at the 6000 level. At least 20 hours must be in formal, regularly scheduled coursework, ten of which must be at the 6000 level.

Total Minimum Hours: 30 credit hours

Core Requirements 9 credit hours
Core courses: (All three are required)
  a) PHZ 5115 Mathematical Methods I 3
  b) PHY 6346 Electricity and Magnetism I 3
  c) PHY 6645 Quantum Mechanics I 3

Comprehensive Exam

Thesis option 15 credit hours
At least four graduate-level elective classes (twelve credit hours), of which at least two must be within physics, plus nine credit hours of Master’s-Thesis as per the Graduate Catalog. Directed Research hours may satisfy up to 50% of the thesis hour requirement. Contact the program for a current list of approved electives.

Non-thesis option 21 credit hours
At least five graduate-level elective classes (fifteen credit hours), of which at least three (9 credit hours) must be in physics. The remaining six credit hours may be earned through a combination of approved graduate level electives, approved graduate seminars, or directed research. Contact the program for a current list of approved electives.

Laboratory or Computing Experience
The student, as part of their elective work or thesis, or through previous course work, should demonstrate either laboratory or computational experience.

COURSES
See http://www.ugs.usf.edu/course-inventory/
PHYSICS (APPLIED PHYSICS) PROGRAM

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 1
Spring: September 1

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 57
Level: Doctoral
CIP Code: 40.0801
Dept. Code: PHY
Major/College Codes: APD AS
Approved: 1999

CONTACT INFORMATION

College: Arts and Sciences
Department: Physics
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

This major emphasizes the practical, engineering applications of theoretical and fundamental physical concepts. The major encompasses the areas of laser physics, materials physics, computational physics, environmental physics and sensors, biomedical physics and imaging science.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- three letters of recommendation
- a statement of purpose
- GRE General Test scores required, GRE Physics Subject Test scores recommended.

Students Entering with Prior Master’s Degrees from Other Institutions
Some prior coursework toward the class requirements outlined below may be counted. However, at least six classes approved by the Director of Graduate Studies must be completed at USF in a discipline related to the Ph.D. Degree.

CURRICULUM REQUIREMENTS

Total Minimum Hours: 57 credit hours

Requirements
- Core courses in theoretical and applied areas: 15 hours
- Lab or computer training: 3 hours
- Electives: 12 hours
- Industrial Practicum: 3 hours
- Dissertation Research (PHY 7980): 24 hours
Core courses – 15 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHZ 5115</td>
<td>3</td>
<td>Mathematical Methods I</td>
</tr>
<tr>
<td>PHY 6346</td>
<td>3</td>
<td>Electricity and Magnetism I</td>
</tr>
<tr>
<td>PHY 6645</td>
<td>3</td>
<td>Quantum Mechanics I</td>
</tr>
<tr>
<td>PHY 6646</td>
<td>3</td>
<td>Quantum Mechanics II</td>
</tr>
<tr>
<td>PHY 6536</td>
<td>3</td>
<td>Statistical Mechanics</td>
</tr>
</tbody>
</table>

Laboratory or Computer Experience – 3 hours

**Laboratory experience: 0–1 classes:**
This may be met, for example, by submitting an experimental thesis or dissertation, by: an approved graduate-level elective; submitting an experimental thesis or dissertation; or through sufficiently rigorous relevant experience (e.g., prior courses, industrial employment, etc.). Contact the department for a current list of approved courses.

**Computational experience: 0–1 classes**
This may be met, for example, by the following: an approved graduate-level elective; submitting a computational thesis or dissertation; or through sufficiently rigorous relevant experience (e.g., prior graduate or undergraduate courses, industrial employment, etc.). Contact the department for a current list of approved courses.

Electives – 12 hours
At least an additional 4 graduate-level classes, of which at least 2 are in Physics
Any graduate-level classes (excluding research and seminars) not used to fulfill other requirements. Contact the department for a current list of approved courses.

Industrial Practicum – 3 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHZ 7940</td>
<td>3</td>
<td>Industrial Practicum</td>
</tr>
</tbody>
</table>

Contact department for details

**Doctoral Qualifying Examination:**
The Doctoral Qualifying Examination consists of two parts: The Credentials Certification and the Dissertation Proposal.
Following successful completion of these two parts, the student may submit the paperwork for doctoral candidacy. The student’s presentation of the Dissertation Proposal may occur at any time after successful completion of the Credentials Certification.

- **Credentials Certification**
The Student, in consultation with his/her research advisor, will assemble a supervisory committee consistent with the rules of the Office of Graduate Studies. It is the responsibility of the supervisory committee to evaluate the student’s academic and research accomplishments and potential according to departmental standards, and if these are met, to certify that the student may proceed to the next step. Contact the Department for details.

- **Dissertation Proposal**
To become a Ph.D. Candidate, the student must present a written dissertation proposal and successfully defend that proposal to the supervisory committee. Contact the Department for details.

**Dissertation – 24 credit hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 7980</td>
<td>2-9</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>

The candidate will conduct original and significant research, describe that research and the results in a doctoral dissertation and defend that dissertation in an oral presentation to the supervisory committee. The defense is open to the public and must be scheduled according to the regulations of the Office of Graduate Studies.

COURSES
See [http://www.ups.usf.edu/course-inventory/](http://www.ups.usf.edu/course-inventory/)
POLITICAL SCIENCE

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: June 1
Spring: October 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 36
Level: Masters
CIP Code: 45.1001
Dept. Code: IGS
Major/College Codes: POL AS
Approved: 1969

Concentrations:
Africana Studies

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Interdisciplinary Global Studies (SIGS)
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The graduate major 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.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Undergraduate degree from a regionally accredited institution
- GRE required
- Three (3) letters of recommendation, preferably from an academic source
- A 500-word statement of academic interest
- Official transcripts
- Minimum GPA of 3.00
- Must have an undergraduate background in political science.

CURRICULUM REQUIREMENTS

Total Minimum Hours: 36 credit hours

Common Core – 12 credit hours
Major Field or Concentration 9 credit hours
Electives – 9 credit hours minimum
Thesis/Non-Thesis – 6 credit hours

http://www.cas.usf.edu/
For instructional purposes, the graduate curriculum in Political Science has been divided into four fields:

Field 1 Comparative Politics (courses with a CPO prefix)
Field 2 International Relations (courses with an INR prefix)
Field 3 American Government (Courses with a PUP, POS, or URP prefix)
Field 4 Political Theory (courses with a POT prefix)

Common Core Courses - 12 credit hours
POS 6735 Foundations of Political Inquiry (3)

Disciplinary Seminar Requirements
Select two:
POS 6045 Seminar in American Government (3)
POT 6007 Seminar in Political Theory (3)
INR 6007 Seminar in International Relations (3)
CPO 6091 Seminar in Comparative Politics (3)

Required Research Methods Sequence
Select one:
POS 6746 Quantitative Analysis I (3)
POS 6707 Qualitative Analysis (3)

Students may either choose a Major Field of study, or the concentration in Africana Studies

Major field - 9 credit hours
In addition to the core course in major area, three additional courses in the core area are chosen from American Government, Political Theory, International Relations, or Comparative Politics.

Concentration in Africana Studies - 9 credit hours
AFA 6932: Topics in Africana Studies (3)
AFA 6120: Social Theory and Social Thought (3)
AFA 6108: Social Construction of Race and Racism (3)

Electives - 9 credit hours minimum:
Electives include, but are not limited to:
AFA 6207: African American Historiography
AFA 6805: African Historiography
AFA 6355: African American Community Research
AFA 6387: Seminar on Genocide and Human Rights
AFA 6932: Special Topics
AFA 6905: Independent Study
AFA 6910: Directed Research
CPO 5934: Selected Topics in Comparative Politics (3)
POS 6933: Selected Topics in Political Science (3)

Electives have to be approved by the Graduate Director. Other graduate courses may also be taken as electives, with approval by the Graduate Director.

Thesis/Non Thesis - 6 hours minimum

Thesis:
POS 6971 6 Thesis: Master’s
AFA 6971 6 Thesis: Master’s

Students must enroll in either POS 6971 or AFA 6971 (Africana Studies Concentration students) Thesis: Master’s for a minimum of 6 credit hours. In their thesis, students must provide 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 Graduate 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.

**Non-Thesis:**

Elective  
Structured course approved by the Graduate Director

And one of the following:

POS 6909  
Independent Study (for students in a major field)

AFA 6905  
Independent Study (for students in the Africana Studies Concentration)

Students who choose a non-thesis option will be required to complete an additional 6 hours of course work at the 6000 level. The student is required to demonstrate competency by successfully completing a substantial literature review of approximately 50 pages in his or her major field, or in the Africana Studies Concentration.

**Comprehensive Examination**

For students in the thesis option, successful completion of the Thesis serves in lieu of the Comprehensive Exam. For students in the non-thesis option, the extensive literature review determines competency and serves as the equivalent of a comprehensive examination.

**Course Listings**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 5934</td>
<td>Selected Topics in Comparative Politics</td>
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<tr>
<td>CPO 6091</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
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<td>CPO 6077</td>
<td>Social Movements</td>
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<td>INR 5012</td>
<td>Globalization</td>
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<td>INR 5086</td>
<td>Issues in International Relations</td>
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<td>INR 6007</td>
<td>Seminar in International Relations</td>
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<tr>
<td>INR 6036</td>
<td>Seminar in International Political Economy</td>
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</tr>
<tr>
<td>INR 6107</td>
<td>American Foreign Policy</td>
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<td>LAS 6933</td>
<td>Seminar in Latin American Studies</td>
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<tr>
<td>POS 5159</td>
<td>Urban Policy Analysis</td>
<td>3</td>
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<tr>
<td>POS 6045</td>
<td>Seminar in American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6127</td>
<td>Issues in State Government and Politics</td>
<td>3</td>
</tr>
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<td>POS 6455</td>
<td>Political Parties and Interest Groups</td>
<td>3</td>
</tr>
<tr>
<td>POS 6707</td>
<td>Qualitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POS 6746</td>
<td>Quantitative Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>POS 6735</td>
<td>Foundations of Political Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>POS 6909</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>POS 6919</td>
<td>Directed Research</td>
<td>1-19</td>
</tr>
<tr>
<td>POT 6007</td>
<td>Seminar in Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>POS 6971</td>
<td>Thesis: Master’s</td>
<td>2-19</td>
</tr>
</tbody>
</table>

Students may take a maximum of 3 credit hours of Independent Study (POS 6909) and 3 credit hours of Directed Research (POS 6919)

**COURSES**

See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
PSYCHOLOGY

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Students are not admitted to a terminal M.A. degree in Psychology. See deadlines for Ph.D. in Psychology

Minimum Total Hours: 30
Level: Masters
CIP Code: 42.0101
Dept. Code: PSY
Major/College: PSY AS
Approved: 1966

Concentrations:
Clinical Psychology (PSC)
Cognition, Neuroscience, and Social Psychology (PCN)
Industrial-Organizational Psychology (PSI)

CONTACT INFORMATION

College: Arts and Sciences
Department: Psychology
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognition, Neuroscience, & Social Psychology, and Industrial-Organizational. Each of these areas offers Ph.D. level training in the following areas of special expertise.


Cognition, Neuroscience, & Social Psychology — Behavioral Neuroscience, Cognition, Judgment and Decision Making, 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.


Accreditation:
Clinical Program accredited by the American Psychological Association, Psychological Clinical Sciences Accreditation System, and member of the Academy of Psychological Clinical Science.

ADMISSION INFORMATION

Not a terminal MA. - Admission only through Ph.D.; see Ph.D. Requirements.
CURRICULUM REQUIREMENTS

The Department of Psychology does not admit students seeking a terminal M.A. degree in Psychology. Additional information is available in the Graduate Student Handbook: http://psychology.usf.edu/policies/students.aspx

Total Minimum Hours: 30 (B- or better for each required course)

Core requirements:
- PSY 6971 Master's Thesis 6
- PSY 6217 Regression and Analysis of Variance 4

Two of the following:
- EXP 6608 Cognitive Psychology 3
- SOP 6266 Social Psychology 3
- PSB 6056 Physiological Psychology 3

The remainder of the required hours is fulfilled by satisfying concentration requirements described below.

Concentration Requirements:

Clinical Psychology

Graduate Breadth Requirements: Students must take one course in each of the three Breadth areas: Biological Aspects of Behavior, Social Aspects of Behavior, and Cognitive/Affective Aspects of Behavior.

Biological aspects of behavior
- PSB 6056 Physiological Psychology 3
- CLP 6937 Human Neuropsychology 3
- CLP 7379 Health Psychology 3
- EXP 7099 Psychopharmacology 3
- EDF 6938 Pediatric Psychopharmacology 3
- EXP 7099 Graduate Seminar: Psychophysiology 3
- EXP 7099 Graduate Seminar: Survey of Neuroscience 3

Social aspects of behavior
- SOP 6266 Social 3
- PSY 6266 Psychology of Gender 3
- EXP 7099 Stress and Coping 3
- INP 6935 Organizational Psychology 3
- EXP 7099 Graduate Seminar: Social and Personality Development 3
- EXP 7099 Graduate Seminar: Social Psychology of Interpersonal Relationships 3

Cognitive and affective aspects of behavior
- EXP 6608 Cognitive 3
- EXP 7099 Memory 3
- EXP 7099 Forgetting 3
- CLP 7379 Emotion and its Disorders 3
- CLP 7379 Mood Disorders 3
- EXP 7099 Graduate Seminar: Image and Mind 3
- EXP 7099 Graduate Seminar: Cognitive Neuroscience of Perception 3

Graduate Research Methods Requirements
All clinical students are required to take a total of four graduate research methods courses.

- PSY 6217 ANOVA/Regression plus lab 4
- SOP 7265 Multivariate Statistics (or equivalent outside of department)
- PSY 6217/SOP 6266 Clinical Psychometrics (or equivalent outside of department)
Plus ONE additional research methods course (3 credits). Students may choose from the list of approved courses below. Students wishing to fulfill this methods requirement with any course not listed below must submit a request to the clinical faculty.

SOP 6266  Factor Analysis  3
SOP 6266  Structural Equation Modeling  3
SOP 6266  Meta-Analysis  3
EXP 7099  Developmental Research Methods  3
CLP 6937  Grant Writing  3
SOP 6266  Item Response Theory  3
SOP 6266  Hierarchical Linear Modeling  3

Clinical Core Requirements
Clinical Didactic Courses: Students need to take at least one “fundamental” course in each of the three areas assessment, interventions, and psychopathology.
CLP 6438  Clinical Assessment
CLP 7188  Clinical Interventions
CLP 6166  Psychopathology and its Development

Specialized Topic Course Requirements:
Students must also complete four courses in specialization topics related to psychological assessment, intervention, and psychopathology/dysfunction. The following courses would fulfill this requirement:

CLP 6937  Neuropsychological Assessment  3
CLP 6937  Prevention science  3
CLP 7379  Emotion and its disorders  3
CLP 7379  Mood disorders  3
CLP 7379  Eating disorders  3
CLP 7379  Addictions  3
CLP 7379  Health Psychology  3
CLP 7379  New Paradigms in Psychology  3
CLP 7379  Cultural Diversity  3
CLP 7379  Advanced Psychological Intervention Seminar/Specialized Treatments  3
PSY 6946  Advanced Psychological Assessment Seminar  3
CLP 7379  Clinical Science Seminar  3

Clinical Practicum
PSY 6946  (1 hour per semester beginning the second year of graduate training)

Other course requirements:
PSY 6946  Skills for Psychological Intervention  2
CLP 6937  Introduction to Clinical Psychology/Cultural Diversity Pro-Seminar  3
PSY 7931  Ethics and Professional Problems  2

Research Requirements:
PSY 6971  Thesis  6
Concentration Requirements:

**Cognition, Neurosciences, & Social Psychology**

**Prior to the Comprehensive Exam**
Total Minimum Hours: 30

**Core Requirements (16 hours)**
At least a B- in a minimum of two of the following:
Cognitive Psychology (3), Physiological Psychology (3), or Social Psychology (3).
Students may be allowed to substitute an advanced three-hour course for one or both of these courses with the written permission of the CNS Area Director. (6 total hours)

Two basic methods courses with grades of at least B-: Analysis of Variance (4) and Regression (4). (8 total hours)
Introduction to CNS (2 semesters, 1 hour each)

**Concentration Requirements (6 hours)**
* A minimum of two seminars or advanced courses in cognition, neuroscience, or social psychology from CNS faculty or, with written permission of the Area Director, related disciplines with grades of at least B-.

**Total Thesis Hours Required (6 hours)**
Master’s thesis research (minimum 6 PSY6971 Thesis: Master’s or PSY6917 Directed Research credits – it is recommended that students take thesis credits in order to retain the option of applying for a master’s degree).

Concentration Requirements:

**Industrial-Organizational Psychology**

**I/O Concentration Requirements (30 hours)**
EXP 6608  Cognitive Psychology  3
SOP 6669  Personality  3
SOP 6058  Social Psychology  3
INP 6935  Personnel Psychology  3
INP 6935  Organizational Psychology  3
PSY 7931  Ethics and Professional Problems  3
INP 7097  Research in I/O Psychology  1 (2 times)
SOP 6669  Psychometrics  3
PSY 6217  ANOVA - Multiple Regression  4
SOP 6669  Organizational Research Methods  3
PSY6971  Thesis: Master’s  6

**COURSES**
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
PSYCHOLOGY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: December 1

Minimum Total Hours: 90
Level: Doctoral
CIP Code: 42.0101
Dept. Code: PSY
Major/College Codes: PSY AS
Approved: 1971

Concentrations:
Clinical Psychology (PSC)
Cognition, Neuroscience, & Social Psychology (PCN)
Industrial-Organizational Psychology (PSI)

CONTACT INFORMATION

College: Arts and Sciences
Department: Psychology
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Psychology Department graduate major is divided into three broad concentrations: Clinical, Cognition, Neuroscience, & Social Psychology, and Industrial-Organizational. Each of these areas offers Ph.D. level training in the following areas of special expertise:

Clinical

Cognition, Neuroscience, & Social Psychology
Behavioral Neuroscience, Cognition, Judgment and Decision Making, Development, Memory, Perception, Social. In addition, with faculty in Communication Sciences and Disorders, the CNS faculty offers a specialization in Speech/Language/Hearing Sciences.

Industrial-Organizational

Accreditation:
Clinical Program is accredited by American Psychological Association, Psychological Clinical Sciences Accreditation System, and member of the Academy of Psychological Clinical Science.
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- a personal goals statement
- three letters of recommendation
- strong preference for GRE V and Q scores each at the 50th percentile or better
- an upper division undergraduate GPA 3.4 or better.

CURRICULUM REQUIREMENTS

After completion of all M.A. requirements in Psychology or its equivalent with a minimum GPA of 3.00, the following requirements must be met:

Total Minimum Hours: 12

- Successful completion of the Ph.D. Comprehensive Qualifying Exam (CL, CNS, IO) or major area paper (CL, CNS).
- PSY 7980 Doctoral Dissertation (12)
- Successful Defense of the Doctoral Dissertation

Additional information is available in the Graduate Student Handbook: http://psychology.usf.edu/policies/students.aspx

Concentration Requirements:

Clinical Psychology

Graduate Breadth Requirements:
Students must take one course in each of the three Breadth areas: Biological Aspects of Behavior, Social Aspects of Behavior, and Cognitive/Affective Aspects of Behavior.

Biological aspects of behavior
PSB 6056 Physiological Psychology 3
CLP 6937 Human Neuropsychology 3
CLP 7379 Health Psychology 3
EXP 7099 Psychopharmacology 3
EDF 6938 Pediatric Psychopharmacology 3
EXP 7099 Psychophysiology 3
EXP 7099 Survey of Neuroscience 3

Social aspects of behavior
SOP 6266 Social 3
PSY 6266 Psychology of Gender 3
EXP 7099 Stress and Coping 3
INP 6935 Organizational Psychology 3
EXP 7099 Social and Personality Development 3
EXP 7099 Social Psychology of Interpersonal Relationships 3

Cognitive and affective aspects of behavior
EXP 6608 Cognitive 3
EXP 7099 Memory 3
EXP 7099 Forgetting 3
CLP 7379 Emotion and its Disorders 3
CLP 7379 Mood Disorders 3
EXP 7099 Image and Mind 3
EXP 7099 Cognitive Neuroscience of Perception 3

**Graduate Research Methods Requirements**
All clinical students are required to take a total of four graduate research methods courses.

PSY 6217 ANOVA/Regression plus lab 4
SOP 7265 Multivariate Statistics (or equivalent outside of department) -
PSY 6217/SOP 6266 Clinical Psychometrics (or equivalent outside of department) -

Plus ONE additional research methods course (3 credits). Students may choose from the list of approved courses below. Students wishing to fulfill this methods requirement with any course not listed below must submit a request to the clinical faculty:
SOP 6266 Factor Analysis 3
SOP 6266 Structural Equation Modeling 3
SOP 6266 Meta-Analysis 3
EXP 7099 Developmental Research Methods 3
CLP 6937 Grant Writing 3
SOP 6266 Item Response Theory 3
SOP 6266 Hierarchical Linear Modeling 3

**Clinical Core Requirements**
Clinical Didactic Courses: Students need to take at least one “fundamental” course in each of the three areas (assessment, interventions, and psychopathology).
CLP 6438 Clinical Assessment -
CLP 7188 Clinical Interventions 4
CLP 6166 Psychopathology and Its Development 3

**Specialized Topic Course Requirements:**
Students must also complete four courses in specialization topics related to psychological assessment, intervention, and psychopathology/dysfunction. The following courses would fulfill this requirement:
CLP 6937 Neuropsychological Assessment 3
CLP 6937 Prevention science 3
CLP 7379 Graduate Seminar: Emotion and its disorders 3
CLP 7379 Graduate Seminar: Mood disorders 3
CLP 7379 Graduate Seminar: Eating disorders 3
CLP 7379 Graduate Seminar: Addictions 3
CLP 7379 Graduate Seminar: Health Psychology 3
CLP 7379 Graduate Seminar: New Paradigms in Psychology 3
CLP 7379 Graduate Seminar: Cultural Diversity 3
CLP 7379 Graduate Seminar: Advanced Psychological Intervention Seminar/Specialized Treatments 3
PSY 6946 Advanced Psychological Assessment Seminar 3
CLP 7379 Graduate Seminar: Clinical Science Seminar 3

**Research Requirements:**
PSY 6971 Thesis 6
PSY 7980 Dissertation 12

**Internship Requirements:**
Each student in the Clinical Concentration is required to complete a one-year, full-time, APA-approved (or CPA approved) internship in a training facility approved by the Department.

**Comprehensive Exams/Major Area Paper Requirements**
Cognition, Neurosciences, and Social Psychology

Prior to the Comprehensive Exam

Total Minimum Hours: 30

Core Requirements (16 hours)
At least a B- in a minimum of two of the following:
Cognitive Psychology (3), Physiological Psychology (3), or Social Psychology (3).

Students may be allowed to substitute an advanced three-hour course for one or both of these courses with the written permission of the CNS Area Director. (6 total hours)

Two basic methods courses with grades of at least B-: Analysis of Variance (4) and Regression (4). (8 total hours)

Introduction to CNS (2 semesters, 1 hour each)

Concentration Requirements (6 hours)
A minimum of two seminars or advanced courses in cognition, neuroscience, or social psychology from CNS faculty or, with written permission of the Area Director, related disciplines with grades of at least B-.

Total Thesis Hours Required (6 hours)
Master’s thesis research (minimum 6 PSY6971 Thesis: Master’s or PSY6917 Directed Research credits—it is recommended that students take thesis credits in order to retain the option of applying for a master’s degree).

Doctoral Requirements (in addition to the requirements for the M.A. degree) (33 more hours)

Elective requirements (21 hours)
Completion of at least four additional seminars or advanced courses that are relevant to the student’s area of research specialization. Of the six courses that are the required minimum for the doctorate (2 before admission to doctoral candidacy), at least three must be offered in the Psychology Department. Students may substitute the third core course (Cognitive, Physiological, or Social) for one of the six with the written permission of the Area Director. At least two of the courses must be outside the student’s concentration and will serve as the minor. These fulfill the minor requirement and must be approved by the Graduate Committee.

* Completion of at least three additional advanced methods courses. These fulfill the tools of research requirement, which must be approved by the Graduate Committee. Methods courses are those that deal primarily with research design, data collection techniques, quantitative or qualitative analytic methods, or instrumentation.

Comprehensive/Qualifying Exam Requirements
Students must pass a comprehensive examination or major area paper.

* Admission to doctoral candidacy.
* PSY 7980 Dissertation (minimum of 12 dissertation credits).

Industrial-Organizational Psychology

EXP 6608 Cognitive Psychology 3
SOP 6709 Topics in Social Psychology: Personality 3
SOP 6068 Personality and Social Psychology 3
INP 6935 Personnel Psychology 3
INP 6935 Organizational Psychology 3
PSY 7931 Ethics and Professional Problems 3
INP 7097 Research in I/O Psychology 1 (2 times)
SOP 6709 Topics in Social Psychology: Psychometrics 3
PSY 6217 ANOVA - Multiple Regression 4
SOP 6709 Topics in Social Psychology: Organizational Research Methods 3
PSY 6971--Thesis: Master’s 6

In addition to the requirements for the M.A. degree:
2 additional elective graduate methods courses (3 hours each)
7 additional elective graduate courses (3 hours each)
2 graduate course minor (3 hours each) – work done outside of students concentration
6 month part-time, 3 month full-time internship
Submission of M.A. thesis or equivalent to conference or journal
Comprehensive/qualifying examination

PSY 7980 Dissertation: Doctoral 12

COURSES
See http://www.ugs.usf.edu/course-inventory/
PUBLIC ADMINISTRATION

Master of Public Administration (M.P.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Spring: October 15
Summer: February 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 36
Level: Masters
CIP Code: 44.0401
Dept. Code: SPF
Major/College Codes: PAD AS
Approved: 1977

Also offered as:
A Doctoral Minor in Public Administration

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Public Affairs
Contact Information: www.grad.usf.edu

Other Resources:
www.spa.usf.edu Traditional Program
http://onlinempa.usf.edu/ Exec. MPA Concentration

MAJOR INFORMATION

The Public Administration Major 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. 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 Major 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 options 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. Major 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 National Association of Schools of Public Affairs and Administration (NASPAA).
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

Admission decisions to the M.P.A. Major 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. Specific criteria are:

- 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.
- 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.
- The submission of a Resume showing work experience.
- Approval by the M.P.A. Admissions Committee and, if deemed necessary, an admissions interview.
- GRE is recommended with preferred scores of 60% V, 25% Quantitative and 4.0 AW. This provision applies to all applicants, including those who have already completed courses in the MPA curriculum. Regardless of GPA, those who score below 20 percentile on either the verbal or quantitative sections on the GRE are required to retake the exam. However, at the discretion of the MPA faculty, it may be waived under certain conditions. Examples where GRE requirements may be waived include:
  - Applicant already possesses a graduate degree from a regionally accredited university
  - Applicant has a 3.25, or higher, undergraduate GPA
  - 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
  - Completion of the Graduate Certificate in Public Management, or Graduate Certificate in Non-profit Management) with a grade point average of 3.5/4.0 or better in the Certificate and no certificate course grade less than a B-.

CURRICULUM REQUIREMENTS

Total Minimum Hours: 42 hours

Traditional MPA - 42 hours minimum
Core – 21 hours
Course requirement – 3 hours
Electives – 15 hours
Capstone – 3 hours
Internship (if required) – 3 hours
Core Requirements - 21 hours
PAD 6060  3  Public Administration Theory and Practice
PAD 6041  3  Ethics and Public Service
PAD 6227  3  Public Budgeting
PAD 6307  3  Policy Analysis, Implementation, and Program Evaluation
PAD 6703  3  Quantitative Aids for Public Managers
PAD 6710  3  Public Information Management
PAD 6275  3  Political Economy for Public Managers

Traditional M.P.A. Requirements
In addition to the 21 hours of Core requirements, students in the traditional path are required to complete:

Course requirements - 3 hours
PAD 6417  3  Human Resources Management

Electives - 15 credit hours
Each student must take 15 elective credit hours depending on the exit option chosen. Students should refer to the MPA website http://www.cas.usf.edu/pad/index.html http://www.spa.usf.edu for courses approved by the Department. Students wishing to take courses from outside this list must obtain approval before registering. Students must maintain an overall GPA of 3.00 or better in all of their coursework during the major.

Internship – 3 credit hours minimum
PAD 6946  Internship in Public Administration
Pre-service students are required to complete a supervised internship 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.

Comprehensive Exam

Exit Requirements

Capstone Course (3 credit hours)
PAD6056, The Practice of Public Management, is a final step before graduation. The course is designed to provide students with the opportunity to apply their knowledge, leadership, communication, and decision-making skills acquired during the MPAMajor. This course is designed to challenge students to demonstrate their capability in synthesizing and integrating conceptual frameworks, and relate these skills to managerial or administrative situations. To be eligible for the Capstone course, students must be in their last semester or have completed a minimum of 13 courses and must have completed PAD 6060. A minimum grade of “B-” must be earned in the Capstone Course. Students who transfer before completing all of the requirements for the MPA at USF will need to enroll into a capstone class at another NASPAA accredited institution with prior approval provided by the Director of Public Administration. An Independent Research class cannot be substituted for PAD 6056 The Practice of Public Administration.

Doctoral Minor in Public Administration
Students enrolled in doctoral level courses of study in other majors (e.g., Anthropology, Psychology, Education) can, with their department’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.ups.usf.edu/course-inventory/
RELIGIOUS STUDIES

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
- Fall: February 15
- Spring: October 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Dept. Code: REL
Level: Masters
CIP Code: 38.0201
Minimum Total Hours: 30
Major/College Codes: REL AS
Approved: 1980

CONTACT INFORMATION

College: Arts and Sciences
Department: Religious Studies
Contact Information: www.grad.usf.edu

MAJOR 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, intellectual, and historical contexts of religion, to develop a greater in-depth knowledge of particular religious traditions, and to acquire proficiency with a variety of pertinent methodologies and theoretical perspectives. The degree serves the needs of students who pursue careers in health professions in education, journalism, law, business, politics, and social work. It will be of special value to those interested in pursuing a doctorate in religious studies.


ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below:

- Three (3) letters of recommendation, and
- A writing sample
- A personal statement (1-3 pages, double-space)
- GRE required, but no minimum specified

CURRICULUM REQUIREMENTS

Students select a major professor and develop a plan for completing a minimum of 30 credit hours. The thesis track requires six (6) of these credits be devoted to a thesis project. The non-thesis track requires that all 30 credits come from graduate seminars. 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. There is no uniform language requirement; however, language skills may be required for particular areas of study. All students are required to 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.

Total Minimum hours - 30 hours

Core Requirements - 15 hours
RLG 6035 Theory and Methods in Religious Studies 3
Six (6) hours of courses in Western Religions (Christianity, Judaism, or Islam) 6
Six (6) hours of courses in Eastern Religions (Hinduism, Buddhism, Daoism, or Confucianism) 6

Electives -15- minimum
No more than six (6) hours may come from independent study/directed reading.
No more than six (6) hours may come from departments other than Religious Studies.

Comprehensive Exam

Thesis/Non-Thesis

Thesis – 6 hours
REL 6971 6 Thesis
The student wishing to receive an M.A. degree with a thesis is required to take a minimum of 30 credits. They will complete the core requirements and at least fifteen (15) hours of elective credits. They will also complete a minimum of six (6) credits of REL 6971. The student will pass a comprehensive exam prior to defending the master’s thesis. They will research, write, and successfully defend the master’s thesis before a committee of three professors.

Non-Thesis
The student wishing to receive an M.A. degree without a thesis is required to take a minimum of 30 credits. The student will complete the core requirements and at least nine (9) hours of elective credits. The student will also pass a comprehensive exam.

COURSES
See http://www.ugs.usf.edu/course-inventory/
## RELIGIOUS STUDIES / EDUCATION

**Concurrent Degrees:**
Master of Arts (M.A.)/ Master of Arts (M.A.)

### DEGREE INFORMATION

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Currently, no students are being admitted to this major.

### CONTACT INFORMATION

<table>
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<tr>
<th>Colleges:</th>
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<td>Contact Information:</td>
<td><a href="http://www.grad.usf.edu">www.grad.usf.edu</a></td>
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</tbody>
</table>
SOCIOLOGY

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15

Minimum Total Hours: 36
Level: Masters
CIP Code: 45.1101
Dept. Code: SOC
Major/College Codes: SOC AS
Approved: 1967

CONTACT INFORMATION

College: Arts and Sciences
Department: Sociology
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Sociology M.A. 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 a sociology Ph.D.. 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.

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 for admission to the major, listed below.

- three letters of recommendation
- personal statement
- a writing sample that demonstrates strong scholarly research
- GRE required – preferred scores of 153V (500V), 144Q (500Q)
- Official Transcripts
- TOEFL. 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).
CURRICULUM REQUIREMENTS

Total Minimum Hours: 36

The Sociology Department requires a thesis for the capstone course. Six of the required 36 hours are taken as thesis hours.

Core Requirements (9 hours)
SYA 6126 Contemporary Sociological Theory 3
SYA 6305 Methods of Research 3
SYA 6405 Sociological Statistics 3

Electives (21 hours)
The 21 hours of electives must include at least 12 hours in scheduled graduate courses in Sociology. With approval of the Graduate Director, 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 Graduate Director’s approval, up to nine (9) hours of elective credit may be taken in a department other than Sociology.

Comprehensive Exam

Thesis (6 hours)
SYA 6971 6 credit hours

COURSES
See http://www.ugs.usf.edu/course-inventory/
SOCIOLOGY

Doctor of Philosophy (Ph.D.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: January 15

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 60 (post masters)
Level: Doctoral
CIP Code: 45.1101
Dept. Code: SOC
Major/College Codes: SOC AS
Approved: 2009

CONTACT INFORMATION

College: Arts and Sciences
Department: Sociology
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Contact department for information.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below. Note: meeting these minimum requirements does not guarantee admission into the major. Applicants must have:

- Three letters of reference
- Personal Statement
- Example of Written Work
- GRE Required – preferred scores 160V (600V), 144Q (500Q)

CURRICULUM REQUIREMENTS

Total Minimum Hours: 60 credit hours post-Masters

Pre-Requisites/M.A. Requirement
- Research Methods
- Statistics
- Sociological Theory
- Elective Courses (21 hours)
- Thesis (6 hours)

Interdisciplinary Core
- Interdisciplinary Professional Seminar (required as a first course for all students)
- Capstone Interdisciplinary Seminar (Required as a final course for all students)

Disciplinary Requirements
- SYA 7515 Advanced Research Methods and Study Design 3
- SYA 7019 Advanced Sociological Theory 3

http://www.cas.usf.edu/
Specialty Research Methods course
A research methods course in any discipline chosen in consultation with advisor

3 hours

Electives within Sociology
Sociology graduate courses chosen in consultation with advisor

9 hours

Interdisciplinary Electives
Courses in at least two departments outside Sociology chosen in consultation with faculty advisor.

12 hours

Dissertation Proposal Preparation
SYA 7988 Dissertation Proposal

6 hours

Dissertation
SYA 7980 Dissertation

18 hours

Total Credit Hours (beyond the M.A.)

60 hours

Other Requirements

Comprehensive Exam
*Note: Students also are required to complete a comprehensive exam upon completion of the 9-credit core requirements. The exam will measure theoretical and methodological knowledge, preparation for further coursework, and ability to successfully defend a dissertation proposal. Dissertation proposal defense will occur after the remaining elective requirements and dissertation proposal preparation requirements have been completed.

Graduate Requirements
A minimum cumulative graduate GPA at USF of 3.00 and successful completion and defense of a Ph.D. comprehensive exam, dissertation proposal, and dissertation.

COURSES
See http://www.ugs.usf.edu/course-inventory/
SPANISH

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Spring: October 15
Summer: February 15

Minimum Total Hours: 36
Level: Masters
CIP Code: 16.0905
Dept. Code: WLE
Major/College Codes: SPA AS
Approved: 1967

CONTACT INFORMATION

College: Arts and Sciences
Department: World Languages
Contact Information: www.grad.usf.edu
Other Resources: www.cas.usf.edu/languages/

MAJOR INFORMATION

The Spanish Section of the Department of World Languages supports a broad, intellectually-driven approach to teaching language, culture, and literature in higher education. Languages and cultures are complex, multifunctional phenomena that link an individual to other individuals, to communities and to national cultures. The graduate major in Spanish offers students academic and practical training in the languages, literatures and cultures of the Spanish-speaking communities of Spain, Latin America, and the United States. Students who receive a Masters of Arts in Spanish from the Department of World Language Education at USF become well-educated communicators with deep translingual and transcultural competence. Thus, they are exceptionally prepared to either continue studies leading to the Ph.D., or find careers in related fields such as the teaching profession, translation, government, civil service agencies, legal and paralegal services, or foreign and domestic business enterprises.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- An undergraduate 3.00 GPA
- 2-3 letters of recommendation
- A two-page statement of purpose in Spanish
- An oral interview in Spanish (can be done by phone, video, Skype, etc.)
- If degree is from abroad student must pass TOEFL with a score of at least 213 (computer-based test), 79 (internet-based test), or 550 (paper-based test).
- Approval from the Graduate Director in case of degree from another discipline
CURRICULUM REQUIREMENTS

Total Minimum Hours 36

Core Requirements – 3 hours
SPW 6806 Introduction to Hispanic Graduate Studies 3

Courses - 33 hours
Select courses from

- SPW 5135 Colonial Spanish American Literature 3
- SPW 5339 Golden Age Drama 3
- SPW 5375 Latin American Short Story 3
- SPW 5387 Spanish American Prose 3
- SPW 5405 Medieval Literature 3
- SPW 5465 19th Century Literature 3
- SPN 5525 Modern Spanish American Civilization 3
- SPW 5597 Latin American Culture in Fantastic Literature & Film 3
- SPW 5605 Cervantes 3
- SPW 5725 Generation of 1898 3
- SPW 5934 Selected Topics 3
- SPW 6427 Golden Age Novel 3
- SPW 6485 Post Civil War Literature 3
- SPN 6845 History of the Spanish Language 3
- SPN 6846 Spanish Paleography & Textual Criticism 3
- SPW 6775 Caribbean Literature 3
- SPW 6910 Directed Research 1-19

Students may substitute up to 6 semester hours with courses in another related area, as approved in advance by the Graduate Director.

Thesis (6 hours)
SPW 6971

Students who choose to undertake MA thesis work will complete 6 semester hours of SPW 6971 Thesis: Masters under the direction of a faculty member. These 6 credits count towards the 33 credits of coursework listed above and are taken in lieu of two of the courses in the list.

Comprehensive Exam
Successful completion of a comprehensive exam (typically taken in the second semester of the second year).

OTHER INFORMATION

To obtain a copy of the Masters of Arts in Spanish handbook, please visit the Department of World Languages in CPR 419.

COURSES
See [http://www.ugs.usf.edu/course-inventory/](http://www.ugs.usf.edu/course-inventory/)
SPANISH
AND LINGUISTICS: ENGLISH AS A SECOND LANGUAGE

Concurrent Degrees:
Master of Arts (M.A.)/Master of Arts (M.A.) Degrees

### DEGREE INFORMATION

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### CONTACT INFORMATION

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<td>Department:</td>
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### MAJOR INFORMATION

This is a concurrent degree between the MA in Linguistics: ESL and the MA in Spanish. Students will need to meet the admissions requirements for each individual major to qualify for the concurrent degree option. Also, students will need to complete all curriculum requirements for both majors, including both sets of comprehensive/exit exams.

**Major Research Areas:**

### ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements specified in the Catalog list for each major.

### CURRICULUM REQUIREMENTS

For specific information on the requirements for the major, please refer the Catalog listing for that major.

**M.A. in Linguistics: English as a Second Language (ESL)** – total minimum hours: 36
**M.A. in Spanish** – total minimum hours: 36
Total hours: 72, with 9 shared. Total combined: 63 credit hours

**Shared Courses:** The following courses are approved to be shared with both majors:
- TSL 5371 3 Methods of Teaching English as a Second Language – (required for Linguistics; elective for Spanish)
- LIN 5700 3 Applied Linguistics – (required for Linguistics; elective for Spanish)
- SPW 6806 3 Introduction to Hispanic Graduate Studies (required for Spanish; elective for Linguistics)

For all other curriculum requirements, including Thesis/non-Thesis, Internship, Comprehensive Examination, etc., refer to the Catalog listing for that major.
STATISTICS

Master of Arts (M.A.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 1
Spring: August 1

International applicant deadlines:
http://www.grad.usf.edu/majors

Minimum Total Hours: 30
Level: Masters
CIP Code: 27.0501
Dept. Code: MTH
Major/College Codes: STC AS
Approved: 2006

CONTACT INFORMATION

College: Arts and Sciences
Department: Mathematics and Statistics
Contact Information: www.grad.usf.edu

MAJOR INFORMATION

Contact the department for information.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Students should have at least 3.50 GPA average in courses taken during the last two years of their undergraduate or graduate studies.
- Students 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.
- GRE is required with a quantitative score of at least 650 required for admission. Students whose native language is not English must score at least 550 (paper based) or at least 79 (internet 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 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 on the Speak Test are allowed to teach in the classroom. Those who score 45 to 50 may be allowed to teach on the condition that they enroll concurrently in ENS 4502, with approval. (See the Graduate Catalog for more details.)

The University of South Florida and the Department of Mathematics and Statistics encourage applications from qualified individuals with disabilities and qualified individuals from all cultural, racial, religious, ethnic, and gender groups, and sexual orientations in accordance with all university regulations.
OTHER INFORMATION

The most recent supplementary documents for Statistics graduate students, “THE HANDBOOKS FOR BOTH M.A. AND Ph.D. GRADUATE STUDENTS IN STATISTICS/PROBABILITY PROGRAMS,” at the Department of Mathematics and Statistics, University of South Florida, Tampa, Florida, USA, dated October 2007 (revised October 2009) are available at the following websites:

http://math.usf.edu/grad/stats/ma/
http://math.usf.edu.grad.stats.Ph.D/

Prospective graduate students in Statistics are welcome to read the information in the Handbooks. In addition, a HARD COPY OF THESE HANDBOOKS will be provided to graduate students at the time of their FIRST time academic advisement process.

CURRICULUM REQUIREMENTS

Total Minimum Hours 30 hours

Core Requirements

Sequences:
- STA 5166 – Statistical Methods 3
- STA 6167 – Statistical Methods II 3
- STA 5326 – Mathematical Statistics I 3
- MAT 6932 – Mathematical Statistics II 3
- STA 6208 – Linear Statistical Models 3

Electives:
- STA 5446 – Probability Theory I 3
- STA 6447 – Probability Theory II 3
- STA 5526 – Nonparametric Statistics 3
- STA 6746 – Multivariate Analysis 3
- STA 6876 – Time Series Analysis 3
- MAT 6932 – Survival Analysis 3
- MAT 6932 – Stochastic Processes 3
- MAT 6932 – Stochastic Dynamic Modeling 3
- STA 6877 – Time Series Analysis II 3
- MAT 6932 – Nonlinear Time Series Analysis 3
- MAT 6908 – Independent Study (as indicated by professor)
- Mat 6932 – Special Topics Courses 3

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.

Department may waive some of the course requirements for those students who have taken equivalent course work at another institution.
Comprehensive Examination
Graduation from the Master’s major 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 6326 Mathematical Statistics II, and STA 6208 Linear Statistical Models.

A. Non-thesis Option

At least 30 hours of Statistics and Mathematics 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) Completing at least 3 hours of Research Project work which is counted towards the 30 credit-hours requirement.

- Taking the course MAT 5912 – Research Project (Non-Thesis Option) and presenting a paper exemplifying the creative component of the major. This may be, but is not restricted to, a literature review, a report of independent research, 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.
- 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 major. 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

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 graduate 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.

- 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, six (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.
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/course-inventory/
URBAN AND REGIONAL PLANNING

Master of Urban and Regional Planning (M.U.R.P.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: March 1
Spring: October 15

Minimum Total Hours: 48
Level: Masters
CIP Code: 04.0301
Dept. Code: SPF
Major/College Codes: URP AS
Approved: 2008

CONTACT INFORMATION

College: Arts and Sciences
Department: School of Public Affairs
Contact Information: www.grad.usf.edu
                      www.spa.usf.edu

MAJOR INFORMATION

The goal of the major is to train students to become planning practitioners capable of working in a variety of public, nonprofit, and private sector environments in a number of different fields. Graduates of this major will go on to play a vital role addressing the planning and public policy challenges in our region and beyond.

The major recognizes the need for effective planners to possess diverse skills in the planning and management of human settlements. Accordingly, the MURP core coursework includes thematically-related courses in land use planning, research methods, quantitative analysis, planning theory and history, planning politics and policies, community and economic development, and geographic information systems (GIS). Students have the option of enrolling in electives that focus on housing & community development, land use planning, local economic development, GIS, international development, coastal zone management, housing & community development, environmental and natural resources planning, and transportation planning. These areas of specialization build on the strengths of existing faculty in our sister-major in Public Administration, as well as with colleagues and facilities across the university. The major is thus distinct in its flexibility. Graduates of the major will be able to:

1. Engage in policy-related research relevant to urban and regional issues
2. Assume positions of leadership public, private and nonprofit organizations engaged in planning, land use, and public policy
3. Further public discourse on the problems confronting cities and regions
4. Utilize communications and technical skills to become successful at all levels of the planning profession.
ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- BA/BS in any field with a GPA of 3.00 or higher on a 4-point scale (overall or on last 60 hours of undergraduate work);
- Two letters of recommendation (one from a faculty member if BS/BA, in last 5 years);
- A “letter of intent” explaining your background and interest in Urban and Regional Planning;
- GRE is required with preferred minimum scores of 153 Verbal (59th percentile) and 144 Quantitative (18th percentile.) However, the MURP major will waive the GRE requirement if the student meets at least one of the following criteria:
  - A completed master’s degree from a regionally accredited institution
  - A 3.25 or higher GPA in upper division undergraduate work from a regionally accredited institution
  - A doctorate (including professional degrees such as the JD and MD) from a regionally accredited institution.
- All Students not meeting one of the above criteria will be considered for conditional admission based on the following criteria:
  - A preferred minimum score of 153 Verbal and 144 Quantitative) on the GRE
  - An academic writing sample
  - Three written letters of recommendation, with at least 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.

Conditional admission status will be converted to regular status upon completion of three courses from the MURP core requirements with a GPA of 3.50 or above.

1. A satisfactory score on the TOEFL (79 on the Internet-based test and 550 on the paper-based test) may be required for the natives of non-English speaking countries.

2. All applicants are required to write a statement describing their purpose and goals in the MURP statements.

CURRICULUM REQUIREMENTS

Total Minimum Hours: 48 hours

Core Requirement – 27 hours

Foundational Core Courses
- URP 6058 3 Community Development Planning
- URP 6100 3 Planning, Theory, and History
- URP 6115 3 Planning, Policy, and Politics
- URP 6316 3 Land Use Planning
- URP 6549 3 Urban and Metropolitan Economic Development

Analytical Methods Core Courses
- URP 6232 3 Research Methods for Urban and Regional Planning
- PAD 6703 3 Quantitative Aids for Public Managers

Planning Practice & Techniques Core Courses
- GIS 5049 3 GIS for non-majors
- URP 6940 3* Urban Planning Internship

*required for students without 5 or more years of relevant planning experience

Electives - 15-21hours minimum
The rest of the required coursework allows the URP student an opportunity to explore one or more fields of urban & regional planning through approved electives within and outside the School of Public Affairs. Depending on personal interest, students may choose course work in the following areas:

- Housing & Community Development;
- Environmental & Natural Resource Policy;
- Geographic Information Sciences;
- Globalization & International Development Planning;
- Transportation Planning.

Comprehensive Exam
This is the default option for the MURP major. All MURP Students are required to take this examination at the end of, or during, the last semester of the major coursework. The examination is waived for students who elect, with the approval of the Graduate Director, to pursue the thesis option. (See below for more on the thesis option)

Non-thesis
Non-thesis students must complete all of the 27 hour core, 21 elective credits.

Thesis - 6 hours minimum
URP 6971 6 Thesis
Students approved to pursue this option must complete all of the 27 core credits, 15 elective credits, and a minimum of 6 credit hours of thesis. The thesis must be completed and approved for the credit to be received.

Internship - 3 hours
URP 6940 3 Internship in Urban and Regional Planning
All MURP students are required to complete at least 180 hours of work in a planning agency to earn the 3 credit hours stipulated as part of the core requirements above. This requirement is waived for students with at least 5 years of relevant planning experience.

COURSES
See http://www.ugs.usf.edu/course-inventory/
WOMEN’S AND GENDER STUDIES

Master of Arts (M.A.) Degree

DEGREE INFORMATION

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<td>College: Arts and Sciences</td>
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<tr>
<td>Spring: October 15</td>
<td>Department: Women’s and Gender Studies</td>
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<td>Summer: February 15</td>
<td>Contact Information: <a href="http://www.grad.usf.edu">www.grad.usf.edu</a></td>
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International applicant deadlines:
[http://www.grad.usf.edu/majors](http://www.grad.usf.edu/majors)

Minimum Total Hours: 36
Level: Masters
CIP Code: 05.0207
Dept. Code: WGS
Major/College: WST AS
Approved: 1997

MAJOR INFORMATION

The M.A. in Women’s and Gender Studies requires the completion of 36 credit hours. The major has three tracks: 1) a research option that requires a thesis, 2) an applied option that requires an internship and subsequent analytic report on the internship experience, and 3) a non-thesis option. This format is designed to serve the needs of a variety of different categories of students desiring a graduate degree in Women’s and Gender Studies. The thesis option is recommended for students who intend eventually to pursue a doctoral degree. Either the non-thesis option or the internship option is recommended for students who seek the M.A. as a terminal degree.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below. Applicants without training in Women’s and Gender Studies are admitted on a conditional basis. In addition, applicants must submit the following requirements:

- GRE scores are required
- A personal narrative statement of purpose
- A writing sample (appropriate examples include a term paper or research paper)
- Three letters of recommendation
CURRICULUM REQUIREMENTS

The M.A. in Women’s and Gender Studies requires the completion of thirty-six credit hours. These hours are divided as follows:

Minimum Hours: 36 credit hours

Core Requirements 12 credit hours
- WST 6001 Feminist Research and Methodology 3
- WST 6560 Advanced Feminist Theory 3
- WST 6003 Feminist Scholarship and Pedagogy 3
- WST 6936 Selected Topics in Women’s Studies 3

Electives 18 credit hours
To be selected from
- Graduate courses on women and issues surrounding the intersection of gender/class/race/sexuality offered by other departments;
- No more than one other graduate-level course approved by the graduate director.

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. Students electing the Non-Thesis option should successfully complete the comprehensive exam in their last semester of coursework.

Track Requirements 6 credit hours
Students should choose their M.A. track at the end of 18 hours of coursework. Six credit hours are required on each track. Track Options include:

Thesis Track (6 credit hours)
WST 6971 Thesis: Master’s
Students must enroll in six credit hours of WST 6971 Thesis: Master’s. Taken over two semesters, the student will develop a thesis proposal 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.

Internship Track (6 credit hours)
WST 5825 Internship in Women’s Studies
Students must enroll in six credit hours of WST 5825 Internship in Women’s Studies. The internship experience, typically over two semesters, should take place in a human service agency or other organization which focuses on women, sexualities, or gender issues. 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 must be defended as an oral defense.

Non-Thesis Track Option (6 credit hours)
In lieu of thesis or internship hours, students must take two additional electives to complete the total 36 hours for the M.A. degree.

Comprehensive Exam Requirements
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/course-inventory/](http://www.ugs.usf.edu/course-inventory/)